Genie
A TEREX BRAND

Operator's Manual Supplement

Lift Tools™ Expo Installer

Original Instructions
First Edition
Fourth Printing
Part No. 1286259GT

Introduction

Manufacturer:

Terex Global GmbH
Bleicheplatz 2
Schaffhausen, 8200
Switzerland

EU Authorized representative:

Genie Industries B.V.
Boekerman 5
4751 XK OUD GASTEL
The Netherlands

UK Authorized representative:

Genie UK Limited
The Maltings
Wharf Road
Grantham
NG31 6BH
UK

Contact Us:

Internet: www.genielift.com

E-mail: awp.techpub@terex.com

Important

Read, understand and obey these safety rules and operating instructions before operating this machine. Only trained and authorized personnel shall be permitted to operate this machine. This manual should be considered a permanent part of your machine and should remain with the machine at all times. If you have any questions, contact us.

Approved Models

Z-45/25	S-65
Z-45/25J	S-60HC
Z-45/25 RT	Z-60/34
Z-45/25J RT	Z-60/37DC
Z-51/30	Z-60/37FE
Z-45 XC	Z-62/40
Z-45 DC / Z-45 FE	S-40 XC
S-40	S-45 XC
S-45	S-60 XC
S-60	S-65 XC
S-60X	

⚠WARNING Do not install the LTEI system on any Genie boom product other than the designated models.

Copyright © 2018 by Terex Corporation

First Edition: Fourth Printing, August 2021

Genie is a registered trademark of Terex South Dakota, Inc. in the U.S.A. and many other countries.

These machines comply with
ANSI/SAIA A92.20
CAN/CSA B354.6

CE Complies with EC Directive 2006/42/EC
See EC Declaration of Conformity

UKCA Supply of Machinery (Safety) Regulations 2008

Introduction

Genie Self-propelled Boom Products and Lift Tools Expo Installer (LTEI) Guidance

Background

Mobile Elevated Work Platforms (MEWPs) are designed to carry personnel to elevated work locations. As part of this function, materials are sometimes raised to specific heights for installation and display. A Lift Tools™ Expo Installer (LTEI) is designed to lift signs in controlled workplace environments. Depending on the work being performed a LTEI may be used while in the platform to raise a sign to a desired location and make the work easier or more efficient. This document provides guidance for the use of LTEIs on Genie products.

This document provides guidance for the use of Genie Booms to serve as an indoor lifting tool for expo sign installations.

Definitions

Qualified person

A "qualified person" one who, by possession of a recognized degree, certificate, or professional standing, or by extensive knowledge, training and experience, has demonstrated his/her ability to solve or resolve problems related to the subject matter, the work, or the project.

Genie Self-propelled Booms may be used to lift under the following guidelines:

1 The owner/employer/user/operator of the boom is responsible for providing fall protection for boom operator.

2 A "qualified person" with knowledge of fall protection regulations and systems must design the work space and the LTEI system to insure worker safety.

3 Genie Booms have been stability tested on level ground for a 240 lb/108.9 kg sign with the remaining rated load in the platform. Therefore the weight of the sign must not exceed 240 lbs/108.9 kg.

4 Fabrication, attachment and use of an LTEI must be approved and authorized by the equipment owner.

5 It is the responsibility of the equipment owner and/or the contractor to perform a hazard analysis on the design and use of the LTEI, and ensure that the equipment complies with the essential health and safety requirements applicable to the jobsite, as well as local, state, provincial, and federal rules and regulations, and standards related to the use of the equipment.

6 Employers and operators must be aware of and plan for potential vertical and horizontal platform movement while using LTEI.

Introduction

7 The boom must be on firm level ground to use the LTEI.

8 A person trained in the operation of the Genie boom shall remain on the ground near the machine base controls to prevent unauthorized use and to prevent the machine from being operated while using the LTEI.

9 Wind speed indoors does not exceed 0 mph/0 m/sec.

Owner/Employer/User/Operator Requirements:

Owner/Employer/User/Operator Requirements:

1 Operators must be trained and qualified on safe operation of the equipment, and be familiar with the specific model of Genie equipment as follows:

- Be familiar and comply with the equipment operating and safety manuals, decals and warnings.
- Understand all control functions.
- Be aware of and understand all safety devices specific to the equipment being used.
- Be instructed how to avoid the hazards.

1 Comply with all applicable jobsite, local, state, provincial, and federal rules and regulations, and standards related to the use of the equipment.

2 The equipment must be in proper working condition and configuration.

In consideration for Genie's guidance herein, the equipment owner, employer, user and operator hereby agree to indemnify and hold harmless Terex USA and its parent and affiliated companies against any and all liabilities, claims, suits, losses, costs and legal fees caused by, arising out of, or resulting from any negligent act or omission in the operation of the equipment; the failure to comply with the criteria set forth in this manual related to the use of a boom with a LTEI; the safety rules and operating instructions in the Operator's Manual. **By proceeding with the use of a boom with a LTEI, you agree to adhere to the requirements set forth herein, including said indemnification. If you do not agree, do not proceed with the proposed use.**

Introduction

Danger

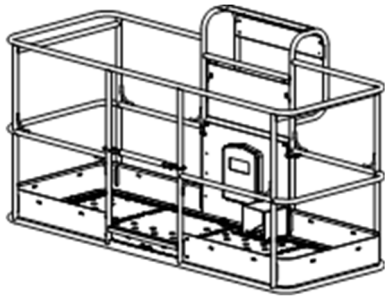
Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

Note

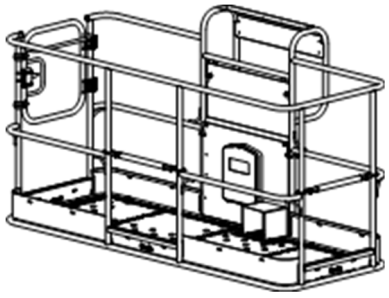
The Lifting Tools™ Expo Installer (LTEI) is only authorized for use in the ANSI, CSA and CE markets. All other markets are prohibited from use.

The LTEI can only be used on Genie Booms equipped with the following 6 ft/1.83 m or 8 ft/ 2.44 m platforms:

- ⚠ Standard entry platforms manufactured from January, 2003



- ⚠ Side entry swing gate platforms manufactured from August, 2015

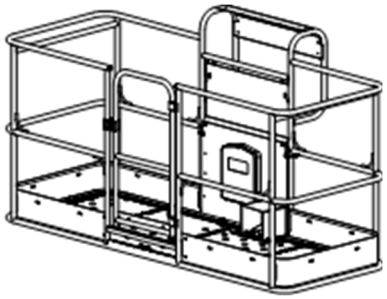


Use on all other machines is prohibited.

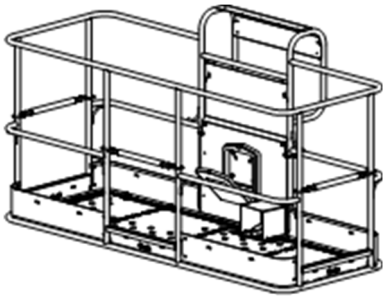
Introduction

The LTEI **shall not** be used with machines equipped with the following:

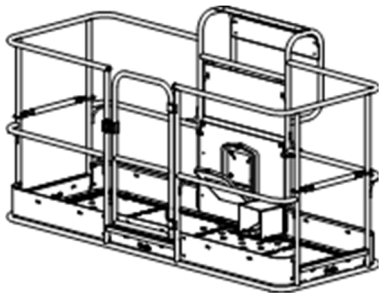
- ⚠ Panel cradle option
- ⚠ Traveling Fall Arrest Anchor System
- ⚠ Center mounted swing gate option



- ⚠ Tri-entry platform with three sliding mid-rails



- ⚠ Tri-entry platform with two sliding mid-rails and center mounted swing gate



⚠DANGER Using the LTEI with the above options could result in death or serious injury.

⚠ LTEI Safety

Read, understand and obey all warnings and instructions provided with the LTEI.

Do not exceed the rated platform capacity. The weight of the LTEI assembly will reduce the rated platform capacity and must be subtracted from the total platform load.

The LTEI assembly weighs 84 lbs/38.1 kg.

Be sure the LTEI is securely installed.

When the LTEI structure is attached, this manual should be considered a permanent part of your machine and should remain with the machine at all times.

Introduction

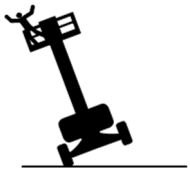
Symbol and Hazard Pictorials Definitions



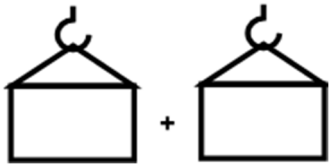
LTEI system weighs 84 lbs/38.1 kg



Read the supplement, part number 1286259



Tip over hazard.



Maximum capacity 240 lbs/108.9 kg.

= 240 lbs/108.9 kg



Maximum wind speed 0 m/sec (indoor only)

Pre-operation Inspection

- ☐ Be sure that the operator's, safety manual, responsibilities manual and any necessary supplements are complete, legible and in the storage container located in the platform.
- ☐ Be sure that all decals are legible and in place.

Check the LTEI for damage or wear, improperly installed, loose or missing parts and unauthorized modifications.

- ☐ Nuts, bolts and other fasteners
- ☐ Cracks in welds or structural components.
- ☐ Dents or damage to LTEI
- ☐ Verify that the trolley can move freely along the entire length of the track.
- ☐ Inspect brake material for excessive wear.
- ☐ Brake surface to be clean and free of contamination.

Decal Inspection

Use the inspection to verify that all decals are legible and in place. Decals may vary depending on machine configuration.

Part No.	Decal Description	Qty
1286260	Decal – Lift Tool Expo Installer, Word	1
1286260FR	Decal – Lift Tool Expo Installer, Word FR	1
1286262	Decal – Lift Tool Expo Installer, Symbol	1
1286393	Decal – Cosmetic, Lift Tool Expo Installer	1

Introduction

Annual Inspection

Inspect for missing or loose components.

Check all fasteners for proper torque. Refer to the installation instructions section of this document for the torque specifications.

Inspect all components for damage or wear. Check for cracks, bends and corrosion.

Inspect all welds for cracks.

Inspect the lower track flanges. If the flanges are bent, damaged or worn, replace the track.

Verify the trolley can freely move the entire length of the track.

Test the operation of the trolley and verify the wheels rotate freely.

Verify the track end stops and hardware are present and secure.

Verify the brake material does not show signs of wear.

Operating Instructions



Observe and Obey:

- ☑ This procedure shall be completed by a person authorized to install the Lift Tools™ Expo Installer.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.
- ☑ Do not exceed the rated platform capacity. Combined weight of LTEI, occupants, tools and any other equipment.
- ☑ Subtract the weight of attached accessory from rated load.
- ☑ The weight of LTEI and sign may limit maximum number of occupants in platform to one person.
- ☑ Do not operate unless you are adequately instructed and are aware of all hazards associated with lifting signs.
- ☑ Do not cause a horizontal force due to a sign that is caught, snagged or otherwise prevents normal motion.Maximum wind speed: 0 mph/0 m/sec.
- ☑ Before elevating a sign, the area shall be marked to warn of work being performed by personnel.
- ☑ Do not transport signs unless they are evenly distributed and can be safely handled by a person in the platform.
- ☑ Be certain that the path of sign travel is clear of hazards, such as storage racks, scaffolds, overhead obstructions, and electrical wires.
- ☑ All movements of the load must be accomplished gradually and at the slowest practical speed to prevent the load from swinging.
- ☑ Only use proper rigging, capable of withstanding the expected loads, to tether the load. Do not use tethers that are damaged. Always remove any tethers before placing a suspended load.
- ☑ Only lift a load vertically; do not pull a load horizontally as it could cause excessive swinging of the load.
- ☑ Identify the proper lifting points of the load, taking into consideration the center of gravity and load stability.

Operating Instructions

☑ Be sure that the operator keeps the load vertical under the lifting point.Do not adjust the length of the suspension element during movement or lifting operations.

☑ The Expo Installer is not a personal fall protection system. This device does not have a lanyard anchorage point.

☑ Check that the brake is applied when the handle is released.

⚠WARNING Tip-over hazard. Swinging loads will significantly increase suspended weight.

Note: Perform this procedure on a firm, level surface with the machine in the stowed position.

⚠ Suspended Load Hazards

Work Area Safety

General Safety

Do not lift a suspended load without first understanding the local, state, federal, or provincial rules, standards and regulations related to the activity. Additional training may be required.

Read, understand and obey all warnings and instructions provided with the attachment that is approved for suspending loads.

Tip-over Hazards



Do not permit the load to swing freely.

Do not use this tool to lift people. It is intended to lift material only.

Keep the boom retracted as much as practical.

Do not lift suspended loads when wind speeds can cause an unsafe situation.

All movements of the load must be accomplished gradually and at the slowest practical speed to prevent the load from swinging.

Never drag or pull a load sideways.

Operating Instructions

Only lift a load vertically; do not pull a load horizontally as it could cause excessive swinging of the load.The weight of all rigging (slings, shackles etc.) must be included as part of the load.

⚠WARNING Tip-over hazard. The weight of the LTEI assembly and the load on the LTEI will reduce the rated platform capacity of the machine and must be factored into the total platform load.

⚠WARNING Tip-over hazard. The weight of the LTEI assembly and the load on the LTEI may limit the maximum number of occupants in the platform.

Identify the proper lifting points of the load, taking into consideration the center of gravity and load stability.

Do not try to move fixed or obstructed loads.

Do not leave the Genie Boom unattended with a suspended load.

Keep the boom and load as low as practical while maintaining visibility in the direction of travel.Maximum capacity of the LTEI is 240 lbs/108.9 kg.

The LTEI assembly weighs 84 lbs/38.1 kg.

Do not exceed walking speed (0.7 mph/1.1 km/h) with a suspended load.

Start, travel, turn and stop slowly to prevent the load from becoming unstable or swinging.

Do not use any controls to re-position the load when traveling. Come to a gradual and complete stop before attempting to re-position the load.

Do not attempt to cross inclines as the load center will move towards the tipping line, thereby reducing stability.

Only climb or descend inclines with extreme care as the load center will move towards the tipping line, thereby reducing stability.

Installation Instructions

Before Starting Installation

☑ Read, understand and obey the safety rules and operating instructions in the appropriate Genie Operator's Manual and Supplements.

☑ Be sure that all necessary tools and parts are available and ready for use.

☑ Read this procedure completely and adhere to the instructions. Attempting shortcuts may produce hazardous conditions.

Notes:

- New mounting hardware is recommended to be used with each new installation of the LTEI, including re-installation on the same machine. A replacement hardware kit (Genie part number 1260849) is available through the Genie Parts Department.
- Refer to the illustration page for installation instructions.

Contents of Kit 1285719

For use with 6 ft / 1.83 m platforms with word decals.

Part Description	Genie Part Number	Qty.
(1) Spacer	1256481	8
(2) Screw, 3/8-16 x 2.5 **	1256856	8
(3) Flange nut, 3/8-16**	1274322	8
(4) Manual, Supplement	1286259	1
(5) Inner hanger	1286621	2

Components of *1285720

Part Description	Genie Part Number	Qty.
(6) Decal, LTEI Max Capacity, Word	1286260	1
(7) Decal, LTEI Max Wind Speed, Word	1286261	1
(8) End stop	1260892	2
(9) Rubber bumper	36388	2
(10) Screw, 1/2-13 x 3.5 ***	1256851	2
(11) Flange nut, 1/2-13 ***	1251997	2
(12) Decal, Cosmetic, Lift Tools™ Expo Installer	1286393	1
(13) Weldment	1286620	1
(14) Trolley*	1285721	1

* Lower level components of p/n 1285721

(a) 1289692	Grip Handle	1
(b) 1289693	Brake Pad	1
(c) 1285730	Spring	2

** Torque to 44 ft-lbs/60 Nm

*** Tighten until snug. Do not over tighten or the track may be damaged.

Installation Instructions

Contents of Kit 1286618

For use with 6 ft / 1.83 m platforms with symbol decals.

Part Description	Genie Part Number	Qty.
(1) Spacer	1256481	8
(2) Screw, 3/8-16 x 2.5 **	1256856	8
(3) Flange nut, 3/8-16**	1274322	8
(4) Manual, Supplement	1286259	1
(5) Inner hanger	1286621	2

Components of *1286619

Part Description	Genie Part Number	Qty.
(6) Decal, LTEI Max Capacity, Symbol	1286262	1
(7) Decal, LTEI Max Wind Speed, Symbol	1286263	1
(8) End stop	1260892	2
(9) Rubber bumper	36388	2
(10) Screw, 1/2-13 x 3.5 ***	1256851	2
(11) Flange nut, 1/2-13 ***	1251997	2
(12) Decal, Cosmetic, Lift Tools™ Expo Installer	1286393	1
(13) Weldment	1286620	1
(14) Trolley*	1285721	1

* Lower level components of p/n 1285721

(a) 1289692	Grip Handle	1
(b) 1289693	Brake Pad	1
(c) 1285730	Spring	2

** Torque to 44 ft-lbs/60 Nm

*** Tighten until snug. Do not over tighten or the track may be damaged.

Contents of Kit 1288801

For use with 8 ft / 2.44 m platforms with word decals.

Part Description	Genie Part Number	Qty.
(1) Spacer	1256481	8
(2) Screw, 3/8-16 x 2.5 **	1256856	8
(3) Flange nut, 3/8-16**	1274322	8
(4) Manual, Supplement	1286259	1
(5) Inner hanger	1286621	2

Components of *1288802

Part Description	Genie Part Number	Qty.
(6) Decal, LTEI Max Capacity, Word	1286260	1
(7) Decal, LTEI Max Wind Speed, Word	1286261	1
(8) End stop	1260892	2
(9) Rubber bumper	36388	2
(10) Screw, 1/2-13 x 3.5 ***	1256851	2
(11) Flange nut, 1/2-13 ***	1251997	2
(12) Decal, Cosmetic, Lift Tools™ Expo Installer	1286393	1
(13) Weldment	1286620	1
(14) Trolley*	1285721	1

* Lower level components of p/n 1285721

(a) 1289692	Grip Handle	1
(b) 1289693	Brake Pad	1
(c) 1285730	Spring	2

** Torque to 44 ft-lbs/60 Nm

*** Tighten until snug. Do not over tighten or the track may be damaged.

Installation Instructions

Contents of Kit 1288803

For use with 8 ft / 2.44 m platforms with symbol decals.

Part Description	Genie Part Number	Qty.
(1) Spacer	1256481	8
(2) Screw, 3/8-16 x 2.5 **	1256856	8
(3) Flange nut, 3/8-16**	1274322	8
(4) Manual, Supplement	1286259	1
(5) Inner hanger	1286621	2

Components of *1288804

Part Description	Genie Part Number	Qty.
(6) Decal, LTEI Max Capacity, Symbol	1286262	1
(7) Decal, LTEI Max Wind Speed, Symbol	1286263	1
(8) End stop	1260892	2
(9) Rubber bumper	36388	2
(10) Screw, 1/2-13 x 3.5 ***	1256851	2
(11) Flange nut, 1/2-13 ***	1251997	2
(12) Decal, Cosmetic, Lift Tools™ Expo Installer	1286393	1
(13) Weldment	1286620	1
(14) Trolley*	1285721	1

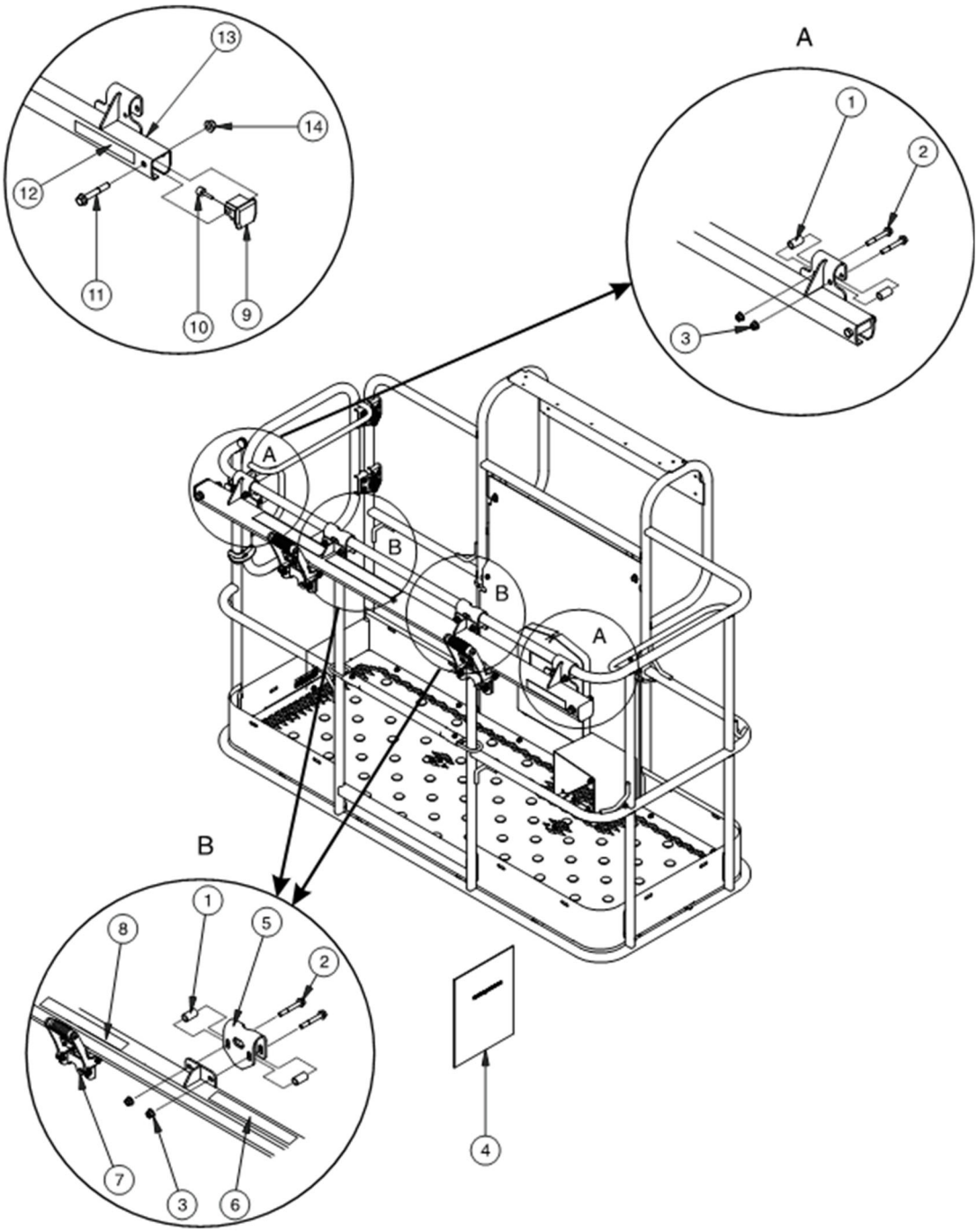
* Lower level components of p/n 1285721

(a) 1289692	Grip Handle	1
(b) 1289693	Brake Pad	1
(c) 1285730	Spring	2

** Torque to 44 ft-lbs/60 Nm

*** Tighten until snug. Do not over tighten or the track may be damaged.

Installation Instructions



California Proposition 65

WARNING

Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. These chemicals can be emitted from or contained in other various parts and systems, fluids and some component wear by-products. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment and vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment or vehicle and after operation. For more information go to www.P65Warnings.ca.gov/passenger-vehicle.

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.

Distributed By: