

A MESSAGE TO HYUNDAI LIFT TRUCK OPERATORS

Lift trucks are specialized machines with unique operating characteristics, designed to perform a specific job. Their function and operation are not like a car or ordinary truck. They require specific instructions and rules for safe operation and maintenance.

Safe operation of lift trucks is of primary importance to HYUNDAI.

Our experience with lift truck accidents has shown that when accidents happen and people are killed or injured, the causes are:

- Operator not properly trained
- Operator not experienced with lift truck operation
- Basic safety rules not followed
- Lift truck not maintained in safe operating condition

For these reasons, HYUNDAI wants you to know about the safe operation and correct maintenance of your lift truck.

This manual is designed to help you operate your lift truck safely.

This manual shows and tells you about safety inspections and the important general safety rules and hazards of lift truck operation. It describes the special components and features of the truck and explains their function. The correct operating procedures are shown and explained. Illustrations and important safety messages are included for clear understanding. A section on maintenance and lubrication is included for the lift truck mechanic.

The operator's manual is not a training manual. It is a guide to help trained and authorized operators safely operate their lift truck by emphasizing and illustrating the correct procedures. However, it cannot cover every possible situation that may result in an accident. You must watch for hazards in your work areas and avoid or correct them. It is important that you know and understand the information in this manual and that you know and follow your company safety rules!

Be sure that your equipment is maintained in a safe condition. Do not operate a damaged or malfunctioning truck. Practice safe operation every time you use your lift truck. Let's join together to set high standards in safety.

Remember, before you start operating this lift truck, be sure you understand all driving procedures. It is your responsibility, and it is important to you and your family, to operate your lift truck safely and efficiently.

△ Be aware that the Federal Occupational Safety and Health Act(OSHA) and state laws require that operators be completely trained in the safe operation of lift trucks; It is also an (OSHA) requirement that a machine inspection be performed before every shift. If you need training in operating or inspecting your lift truck, ask your supervisor.

HYUNDAI lift trucks are built to take hard work, but not abuse. They are built to be dependable, but they are only safe and efficient as the operator and the persons responsible for maintaining them. Do not make any repairs to this truck unless you have been trained in safe lift truck repair procedures and are authorized by your employer.

This manual describes procedures for operation, handling, lubrication, maintenance, checking and adjustment. It will help the operator realize peak performance through effective, economical and safe machine operation.

INTRODUCTION

HYUNDAI welcomes you to the growing group of professionals who own, operate and maintain HYUNDAI lift trucks. We take pride in the long tradition of quality products and superior value the HYUNDAI name represents. This manual familiarizes you with safety, operating, and maintenance information about your new lift truck. It has been specially prepared to help you use and maintain your HYUNDAI lift truck in a safe and correct manner.

Your HYUNDAI lift truck has been designed and built to be as safe and efficient as today's technology can make it. As manufactured, for some models, it meets all the applicable mandatory requirements of ANSI B56.1-1988 Safety Standard for Powered Industrial Trucks. Some trucks are also furnished with equipment to help you operate safely; for example, load back rest, parking brake and horn are standard equipment.

Safe, productive operation of a lift truck requires both skill and knowledge on the part of the operator. The operator must know, understand, and practice the safety rules and safe driving and load handling techniques described in this manual. To develop the skill required, the operator must become familiar with the construction and features of the lift truck and how they function, the operator must understand its capabilities and limitations, and see that it is kept in a safe condition.

Routine Servicing and Maintenance

Regular maintenance and care of your lift truck are not only important for economy and utilization reasons; it is essential for your safety. A faulty lift truck is a potential source of danger to the operator, and to other personnel working near it. As with all quality equipment, keep your lift truck in good operating condition by following the recommended schedule of maintenance.

Operator Daily Inspection - Safety and Operating Checks

A lift truck should always be examined by the operator, before driving, to be sure it is safe to operate. The importance of this procedure is emphasized in this manual with a brief illustrated review and later with more detailed instructions. HYUNDAI dealers can supply copies of a helpful Drivers Daily Checklist. It is an OSHA requirement.

Planned Maintenance

In addition to the daily operator inspection, HYUNDAI recommends that a planned maintenance (PM) and safety inspection program be performed by a trained and authorized mechanic on a regular basis. The PM will provide an opportunity to make a thorough inspection of the safety and operating condition of your lift truck. Necessary adjustments and repairs can be done during the PM, which will increase the lift or components lifecycle and reduce unscheduled downtime and increase safety. The PM can be scheduled to meet your particular application and lift truck usage.

The procedures for a periodic planned maintenance program that covers inspections, operational checks, cleaning, lubrication, and minor adjustments are outlined in this manual. Your HYUNDAI dealer is prepared to help you with a Planned Maintenance Program by trained service personnel who know your lift truck and can keep it operating safely and efficiently.

Service Manual

In-depth service information for trained service personnel is found in Service Manual.

HOW TO USE THIS MANUAL

This manual is a digest of essential information about the safe operation, the features and functions and explains how to maintain your lift truck. This manual is organized into eight major parts:

Section 1. General Safety Rules, reviews and illustrates accepted practices for safe operation of a lift truck.

Section 2. Operating Hazards, warns of conditions that could cause damage to the truck or injury to the operator or other personnel.

Section 3. Know Your Truck, describes the major operating components, systems, controls, and other features of your truck and tells how they function.

Section 4. Daily Safety Inspection, presents details on how to perform the operator's daily safety inspection and refuel the lift truck.

Section 5. Operating Procedures, discusses specific instructions on the safe, efficient operation of your lift truck.

Section 6. Emergency Towing, gives instructions for towing your truck in an emergency and for using battery jumper cables to start your truck in an emergency.

Section 7. Planned Maintenance, describes the PM (Planned Maintenance) program.

Section 8. Specifications, provides reference information and data on features, components, and maintenance items.

※The descriptions and specifications included in this manual were in effect at the time of printing. HYUNDAI reserves the right to make improvements and changes in specifications or design, without notice and without incurring obligation. Please check with your authorized HYUNDAI dealer for information on possible updates or revisions.

The examples, illustrations, and explanations in this manual should help you improve your skill and knowledge as a professional lift truck operator and take full advantage of the capabilities and safety features of your new lift truck.

The first section of the manual is devoted to a review, with illustrations and brief messages, of general safety rules and the major operating hazards you can encounter while operating a lift truck. Next, you will find description's of the components of your specific lift truck model and how the instruments, gauges, and controls operate. Then, you will find a discussion of safe and efficient operating procedures, followed by instruction's on how to tow a disabled lift truck. The later sections of the manual are devoted to maintenance and truck specifications.

Take time to carefully read the Know Your Truck section. By acquiring a good basic understanding of your truck's features, and how they function, you are better prepared to operate it both efficiently and safely.

In Planned Maintenance, you will find essential information for correct servicing and periodic maintenance of your truck, including charts with recommended maintenance intervals and component capacities. Carefully follow these instructions and procedures.

Each major section has its own table of contents, so that you can find the various topics more easily.

We urge you to first carefully read the manual from cover to cover. Take time to read and understand the information on general safety rules and operating hazards. Acquaint yourself with the various procedures in this manual. Understand how all gauges, indicator lights, and controls function. Please contact your authorized HYUNDAI dealer for the answers to any questions you may have about your lift truck's features, operation, or manuals.

Operate your lift truck safely; careful driving is your responsibility.

Drive defensively and think about the safety of people who are working nearby. Know your truck's capabilities and limitations. Follow all instructions in this manual, including all symbols (▲ △ ※) messages to avoid damage to your lift truck or the possibility of any harm to yourself or others.

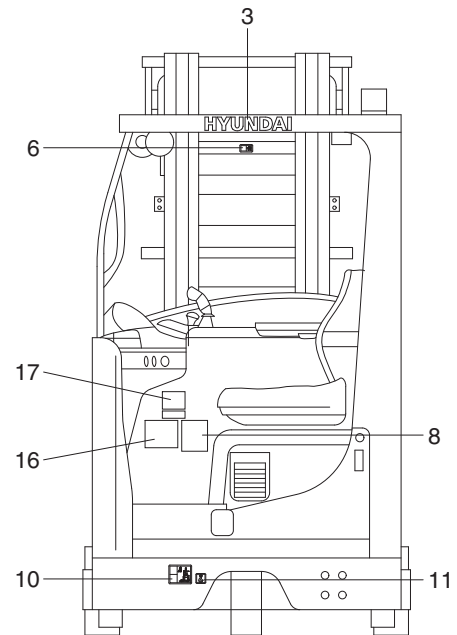
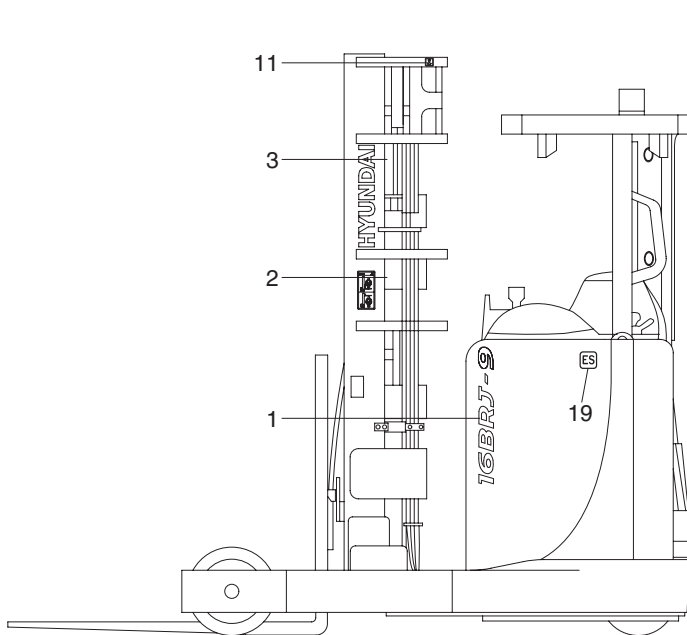
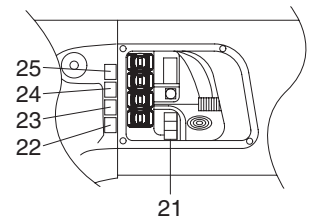
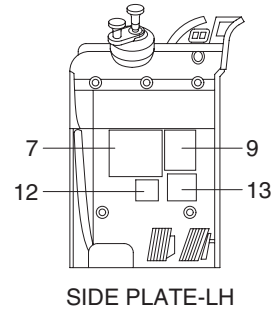
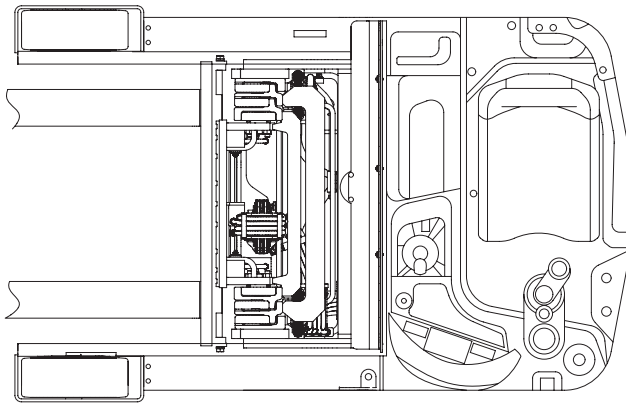
This manual is intended to be a permanently attached part of your lift truck. Keep it on the truck as a ready reference for anyone who may drive or service it. If the truck you operate is not equipped with a manual, ask your supervisor to obtain one and have it attached to the truck. And, remember, your HYUNDAI dealer is pleased to answer any questions about the operation and maintenance of your lift truck and will provide you with additional information should you require it.

SAFETY LABELS

1. LOCATION

Always keep these labels clean. If they are lost or damaged, attach them again or replace them with new labels.

1) 14/16/20/25BRJ-9



14BRJ9OM101

- | | | |
|----------------------------|----------------------|------------------------------|
| 1 Model name | 10 Hanger | 21 Switch decal |
| 2 Warning mast | 11 Hook | 22 Lift lever |
| 3 Logo | 12 Brake pedal | 23 Reach lever |
| 6 Hand caution | 13 Accelerator pedal | 24 Tilt lever |
| 7 Circuit diagram | 16 Warning safety | 25 Side shift lever (option) |
| 8 Maintenance instructions | 17 Name plate | |
| 9 Battery handling | 19 ES mark | |

2. DESCRIPTION

There are several specific warning labels on this machine please become familiarized with all warning labels.

Replace any safety label that is damaged, or missing.

1) WARNING MAST (Item 2)

This warning label is positioned on the both side of the mast.

⚠ Never stand or work under the raised forks even if the hydraulic safety lock lever is applied.

⚠ In case of working under the forks, it is essential to support the carriage with blocks.

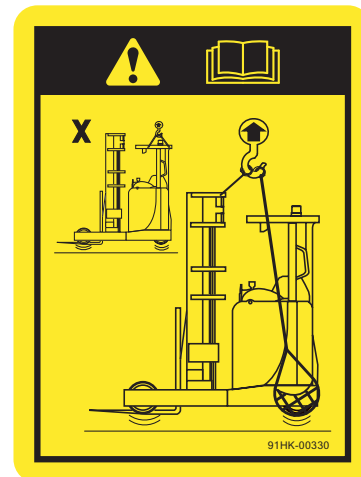


14BRJ9OM62A

2) HANGER (Item 10)

(1) This warning label is positioned on the front frame.

⚠ Refer to page 1-19 for safe loading procedures.



14BRJ9FW12

3) BATTERY HANDLING (Item 9)

This battery handling is located on the right side frame of the cab.

⚠ Refer to page 7-20 for a safe battery removal.

- ※ Open the battery cover when charging. Battery being charged not only heat, but also inflammable hydrogen gas is produced. Keep fire away.
- ※ Hoisting the battery case, use 2 or 4 wires with hook and handle carefully, not to shock. The electrolyte solution of battery is dilute sulfuric acid (H_2SO_4).
- ※ Be careful not to drop on clothes and mechanical parts.



14BRJ9FW11

4) WARNING SAFETY (Item 16)

This warning safety is located on the right side frame of the cab.

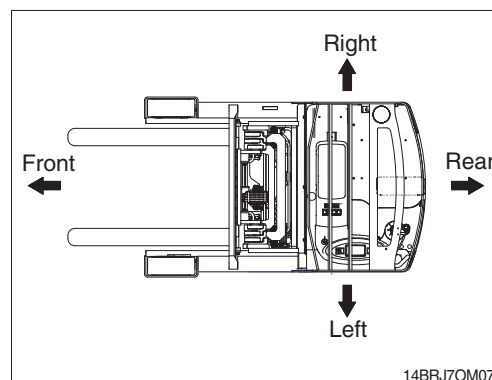
- (1) Before putting this truck in operation, test brakes, steering controls, horn and other devices for safety and easy of operation.
- (2) Only trained and qualified persons should operate this truck.
- (3) Operate truck or auxiliary devices only from operator's seat.
- (4) Use drivers overhead guard and load backrest extension unless conditions prevent their use.
- (5) Before key switch ON, place shift lever in neutral position.
- (6) Spread forks far apart and place them on center completely under loaded.
Do not handle unstable or loosely stacked loads.
- (7) Use extreme care with long, high or wide loads and do not overload truck. (See load chart)
- (8) Travel with load or lifting mechanism at minimum ground clearance and tilted back. Except on ramps travel with the load trailing when the load interferes with visibility.
- (9) Operate on ramps with load upgrade. Travel slowly with caution and do not turn on inclines.
- (10) Avoid sudden starts, stops direction reversals, unsafe speed and reverse braking. Reduce speed for turns or uneven or slippery surface.
- (11) Never lift or lower loads while truck is in motion.
- (12) Do not allow anyone to stand or pass under load or lifting mechanism keep all body parts out of upright and within confines of truck.
- (13) Do not carry passengers. Do not elevate personal without secured safety platform.
- (14) Lift with mast vertical or tilted slightly back. Never forward.
Lift loads smoothly and slowly-avoid sudden jerks.
- (15) When leaving truck, turn off power, lower lifting mechanism, place shift in neutral. Key or connector plug removed. Also check wheel if truck is on an incline or to be worked ON.



14BRJ9FW05

1. DIRECTION

The direction of this machine indicate forward, backward, right and left when machine is in the travelling direction.

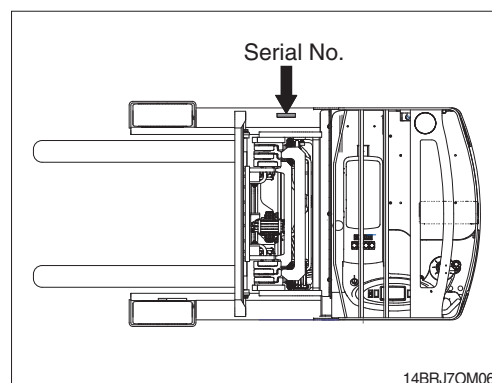


2. SERIAL NUMBER

Inform following when you order parts or the machine is out of order.

1) MACHINE SERIAL NUMBER

It's shown of the front-right side of the frame.



3. SYMBOLS

▲ Important safety hint.

△ It indicates matters which can cause the great loss on the machine or the surroundings.

※ It indicates the useful information for operator.

4. WHOLE BODY VIBRATION

The whole body vibration level is measured according to standard EN13059 which contains specific test criteria (load, speed, roadway surface, etc.). Worksite vibration levels may vary depending on actual operating and surface conditions.

- Measured whole body vibration at the operator position, based upon standard production truck with full suspension seat.
- Declared whole body vibration emission value is in accordance with EN13059.
- 14/16/20/25BRJ-9 : 0.58 m/s²
- Uncertainty, K=0.2 m/s²