

EC Declaration of conformity - update 05/01/'10

1. We hereby declare that the following machine comply with the machine directive 2006/42/EC, EMC-directive 2004/108/EC, Non-road mobile machinery emission directive 97/68/EC (amended by 2002/88/EC, 2004/26/EC, 2006/105/EC) and noise emission 2000/14/EC (amended by 2005/88/EC).

Forklifts	Model :	*****
	Serial Nr. :	***

- | | |
|-----------------|---|
| 2. Manufacturer | HYUNDAI CONSTRUCTION EQUIPMENT CO., LTD.
12th Fl., Hyundai Bldg. 75, Yulgok-ro, Jongno-gu,
Seoul 03058, Korea |
|-----------------|---|

Authorized representative : Owner of the technical file for machine production. (TCF : Technical Construction File)	HYUNDAI CONSTRUCTION EQUIPMENT EUROPE N.V. Hyundailaan 4, 3980 Tessenderlo Belgium
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- | | |
|-------------------------------------|---|
| 3. Harmonized European directives : | ISO3691-1.3, ISO 20898:2008, EN ISO 2867:2008 |
|-------------------------------------|---|

- | | |
|-----------------------------------|---|
| 4. Noise level : | |
| Certain n° : | e13*2000/14*2005/88*0059*08 |
| Date : | 2009-06-17 |
| Conformity assessment procedure : | Attachment VIII following the periodical inspection on technical extended with "Information on the scope of delivery" by TÜV Rheinland. |
| Authorized entity : | Société Nationale de Certification et d'Homologation s.à r.l
CE0499 11, route de Luxembourg
5230 Sandweiler
Luxembourg |
| Engine power : | *** kW |
| Guaranteed sound power level : | *** dB (A) |

5. Remarks

Managing Director

Tessenderlo, Belgium

//****

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 is 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 as 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 is 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 and safety inspection program (PM) 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 life of components 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 nine major parts:

Section 1. Safety hints, 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. Operator Maintenance and Care, presents details on how to perform the operator's daily safety inspection and refuel the lift truck.

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

Section 6. Emergency Starting and 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 and Lubrication, describes the PM (Planned Maintenance) program.

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

Section 9. Troubleshooting, provides trouble symptoms, causes and methods of remedy.

Section 10. Testing and Adjusting, gives instructions for testing and adjusting.

※ **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 (▲ △ ※) and 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.

※ Illustrations may differ from your machine, but they are applicable to your machine.

EC REGULATION APPROVED

- Noise level (2000/14/EC and EN 12053) are as followings.

Model	LWA (EU only)	LPA
15/18/20D-9	101 dB	81 dB

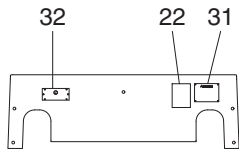
- The value of vibrations transmitted by the operator's seat are lower than standard value of (2002/44/EC)



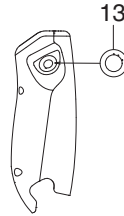
SAFETY LABELS

1. LOCATION

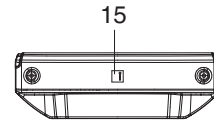
Always keep these labels clean. If they are lost or damaged, attach them again or replace them with new labels.



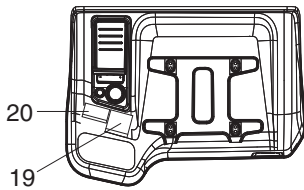
DASH BOARD COVER



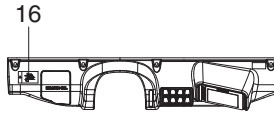
STEERING COLUMN COVER



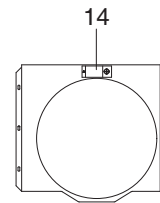
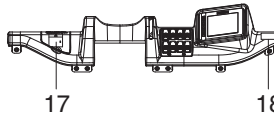
SUB BONNET



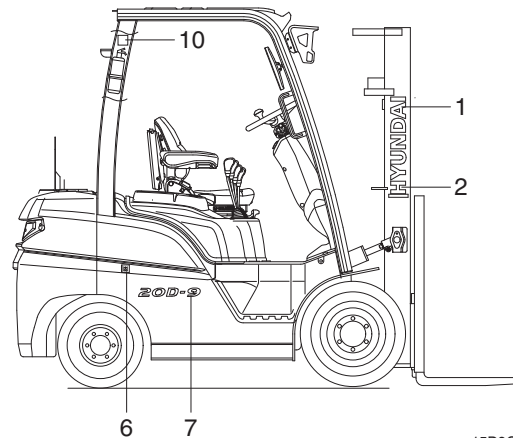
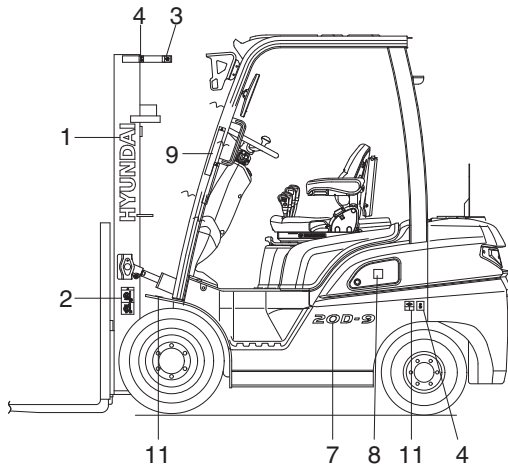
BONNET



DASHBOARD COVER



FAN SHROUD



15D9OM101

- | | | |
|------------------|------------------------|-----------------------|
| 1 Logo | 10 Fire extinguisher | 19 Load chart |
| 2 Warning plate | 11 Tire caution | 20 Safety instruction |
| 3 Hand caution | 13 Start key | 21 Engine room |
| 4 Hook | 14 Radiator & fan | 22 Noise |
| 6 Hydraulic oil | 15 Temperature | 31 Name plate (CE) |
| 7 Model name | 16 Operator warning | 32 Label-UL |
| 8 Diesel fuel | 17 Brake fluid | |
| 9 Warning safety | 18 Solid tire (option) | |

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 PLATE (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.

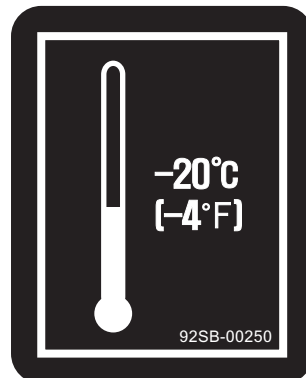


25L7A0OM06

2) TEMPERATURE (item 15)

This warning label is positioned on the left of top side of sub bonnet.

⚠ Coolant must be checked as specified in the maintenance chart.



20DE0FW06

3) RADIATOR & FAN (item 14)

This warning label is positioned on the cooling fan shroud of the radiator to warn of the danger or injury from spinning fan blades and forbid to open the filler cap of the radiator because operator might get scalded due to spouting of hot water. When the engine is running. Be sure that you keep your hands, fingers, arms, and clothing away from a spinning fan. Don't stand in line with a spinning fan. Fan blades can break at excessively high RPM and be thrown out of the engine compartment.



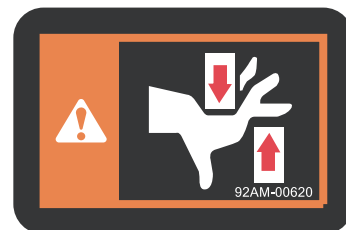
25L7A0OM07

⚠ Never open the filler cap while engine running or at high coolant temperature.

4) HAND CAUTION (item 3)

This label is positioned on respectively near the front fender and the rear fender of the left side of the main frame.

⚠ It warns of the danger of injury from movement between rails, chains, sheaves, fork carriage, and other parts of the mast assembly. Do not climb on or reach into the mast. Personal injury will result if any part of your body is put between moving parts of the mast.



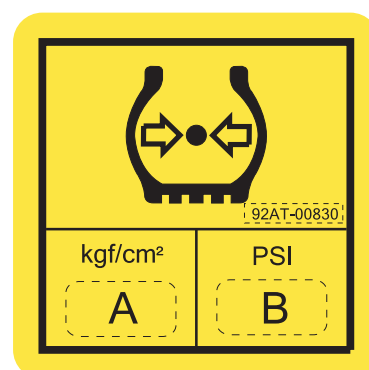
35DEOM103

5) TIRE CAUTION (item 11)

This label is positioned on both side of main frame.

⚠ Tire pressure must be checked in accordance with the maintenance chart.

⚠ Refer to page 5-3 for the regulated tire air pressure (A and B).

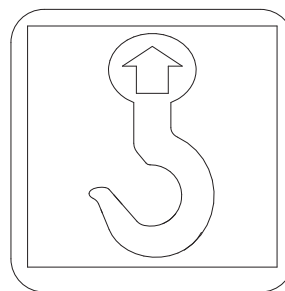


20DEOM104

6) HOOK (item 4)

This warning label is positioned respectively on the both top side of mast and near rear tire of the both side of the main frame.

▲ Refer to page 7-39 for safe loading procedures.



50DEOM35

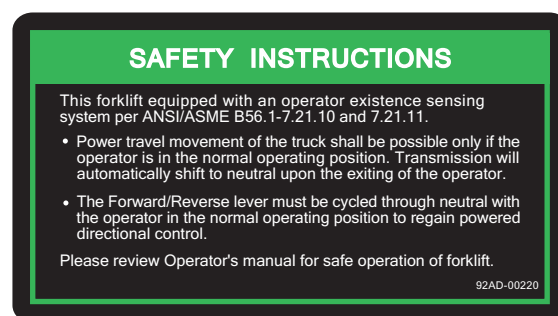
7) SAFETY INSTRUCTION (item 20)

This warning label is positioned on the dashboard cover if the truck is for USA or equipped with *OPSS.

▲ This forklift is equipped with an operator existence sensing system per ANSI/ASME B56.1-7.21.10 / 7.21.11 and ISO 3691.

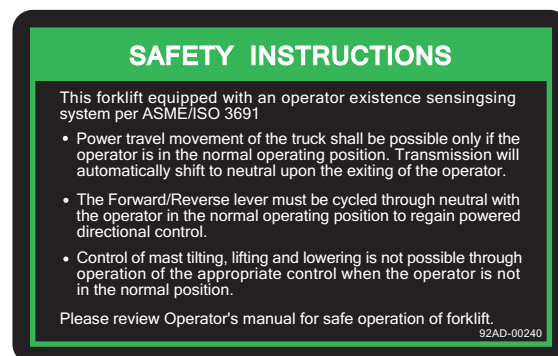
1. Powered travel movement of the truck shall be possible only if the operator is in the normal operating position. Transmission will automatically shift to neutral upon the exiting of the operator.
2. The forward/reverse lever must be cycled through neutral with the operator in the normal operating position to regain powered directional control.
3. Control of mast tilting, lifting and lowering is not possible through operation of the appropriate control when the operator is not in the normal position.

Truck for USA or travel * OPSS



92AD-00220

Truck for travel and mast * OPSS



92AD-00240

* OPSS : Operator Presence Sensing System

8) BRAKE FLUID (item 17)

This warning label is located on the left side of dashboard cover.

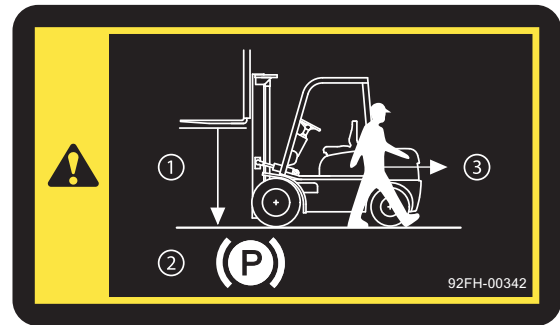


92HN-00881

9) OPERATOR WARNING (item 16)

This warning and caution plate are located on the right side of the dashboard cover.

1. Warnings before leaving the operator seat.
 - Be sure to lower the attachment to the ground.
 - Apply the parking brake.

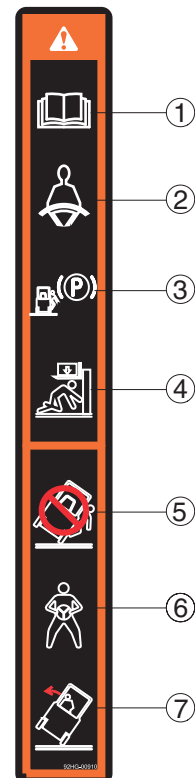


91FH-00342

10) WARNING SAFETY (item 9)

This warning label is positioned on the front outside of overhead guard stay-RH.

- ① Refer to operator's manual in detail.
- ② Always buckle up the seat belt for safety operation.
- ③ When the operator get off the machine, always lock the parking switch so that the machine can keep with stopping condition.
- ④ The people should not pass through under forks and other attachments which are lifted or being lifted.
- ⑤ Do not jump down from the machine. It can be caused that the operator have severe injury or death in the event of a tip over.
- ⑥ Outstretch the legs as widely as possible and grasp firmly the steering handle.
- ⑦ Learn the body to the opposite direction in order to avoid severe injury or death when the machine is tipped over.



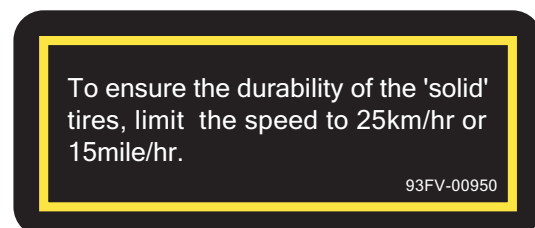
25L7AOM09-1

※ Refer to page 3-3 for details.

11) SOLID TIRE (item 18)

This decal located on the right side of dashboard.

To ensure the durability of the 'solid' tire, limit the speed to 25 km/hr or 15 mile/hr.



93FV-00950

12) FIRE EXTINGUISHER (Item 10)

This label is positioned on the rear top of overhead guard.

- ⚠ **Be familiarized with the fire extinguisher instructions.**



3000SL02

13) ENGINE ROOM (item 21)

This warning label is located on the front side of the bonnet.

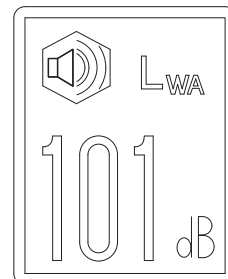
- ⚠ **Don't wash the engine room.**



92HN-00261

14) NOISE (item 22)

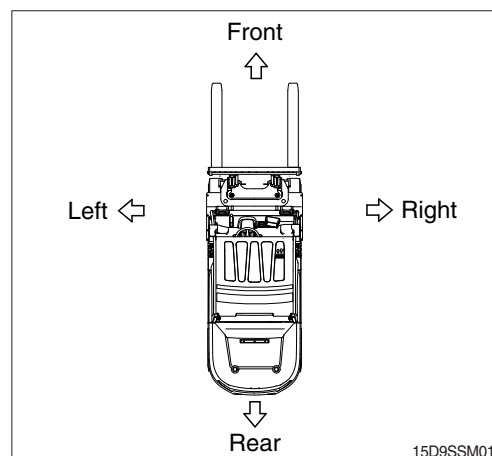
This warning plate is located on the front side of dashboard.



15D9OMFW09

1. DIRECTION

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

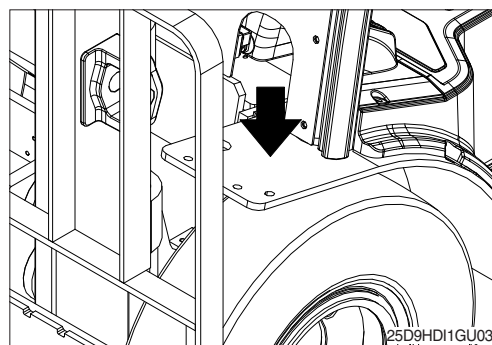


2. SERIAL NUMBER

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

1) MACHINE SERIAL NUMBER

It is shown on the left fender.



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