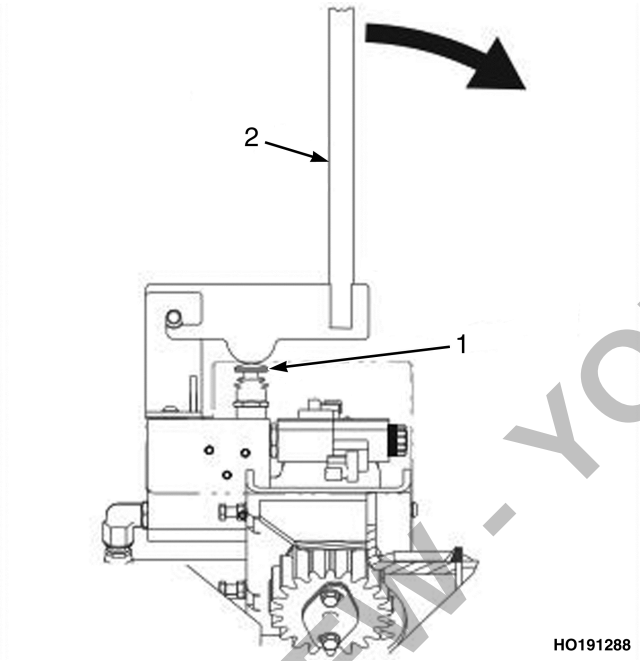


1. EMERGENCY VALVE
2. VALVE LEVER

Figure 26. Cab Release Lever

Emergency Evacuation

A life hammer is attached to the RH hand cab roof support. Use this hammer in an emergency situation when the cab cannot be moved by the system and the derricking cylinders prevent the cab doors from opening. If quick evacuation is required, shield your eyes and face and use the life hammer to smash the rear cab window and remove remaining glass from the frame edges. Exit the cab through the created opening while avoiding contact with the frame edge.

Automatic Greasing System (Optional)

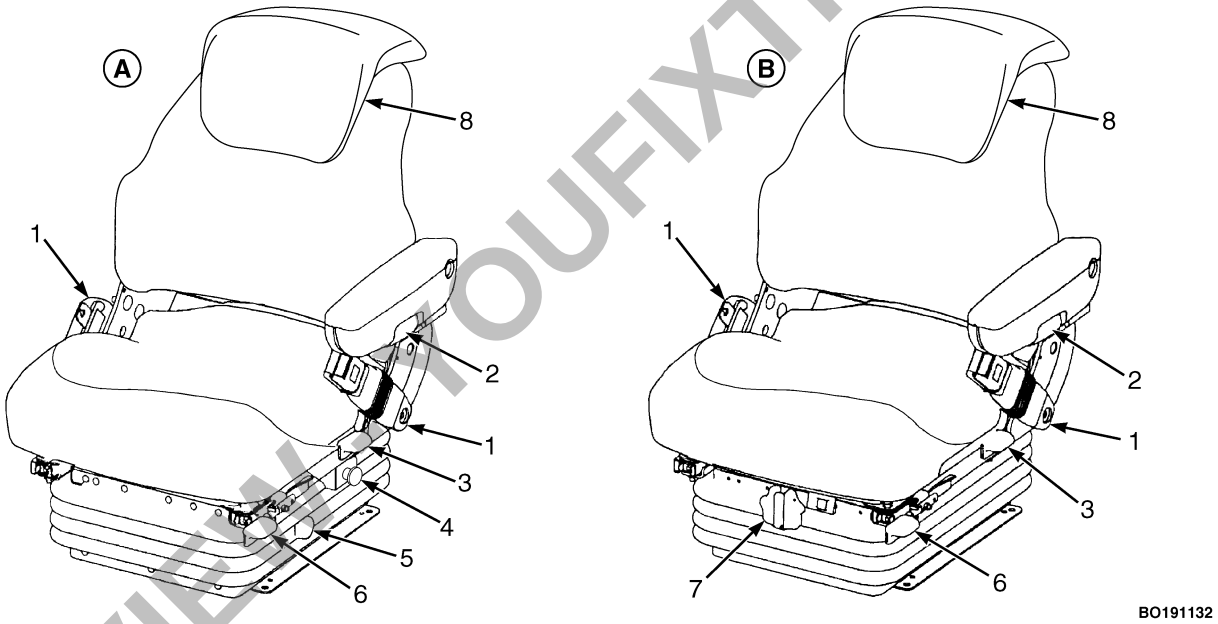
The optional automatic greasing system provides most of the truck grease points with the grease. Not connected with the automated greasing system are the cab door hinges, the drive shaft, and the optional stabilizer, which still have to be greased manually at the scheduled intervals.

Verify correct operation daily by checking the LEDs on the automatic greasing system display and take appropriate action when necessary.

See **Automatic Greasing System** 8000 SRM 1533 for more information.

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Controls, Instruments, Indicators, and Switches



A. AIR SEAT

B. MECHANICAL SEAT

Figure 4. Seat Controls

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overridden. The LLMI is intended only to warn the operator of inadequate stability in the longitudinal plane in the forward direction when performing loading and placing functions.

The LLMI is not a substitute for good judgment and experience. Do not rely on the LLMI to prevent instability. Always observe the accepted safe operating procedures for the ReachStacker.

Each time the ReachStacker is started, the operator must check if the indicator lights for the LLMI (Longitudinal Load Moment Indicator) function as indicated in **Table 11**.

After the key switch is **ON**, the warning lights and audible alarm will be on for approximately one second.

Stabilizer Operation

Description

Applying the stabilizers provides additional lifting capacity with the boom extended. When picking up a load with the boom extended, the operator can first try to lift it without using the stabilizer. If the load is too heavy (red indicator light of the LLMI comes **ON**) the stabilizer can be applied to provide additional lifting capacity. When depositing a container, the View display will show the weight of the container. The load chart will indicate if the capacity is sufficient for the distance (row) at which the container is to be deposited, or if it will be required to apply the stabilizer. Before applying the stabilizer, position the ReachStacker as close and as aligned as possible to the final position of the container.

Activation of the stabilizer system is initiated by the operator by pushing buttons F2/F3 on the VIEW display. See **Table 12**. Before pushing the stabilizer DOWN button (F3), make sure there are no obstacles under the stabilizer plate and that the plate will be supported by a solid and level surface. Required conditions that allow the stabilizer to move are as follows:

- Park brake applied.
- Driving speed is zero.
- Load radius is at least 1.865 m (6.1 ft).

Applying the Stabilizer

When the above conditions are met, the stabilizer is allowed to move down, and the background color of icon 16 will be light grey. See **Figure 15**. If the stabilizer is **NOT** allowed to move down, the background color will be dark

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Return ReachStacker to its storage state for another month.

How to Put Batteries in Storage

Batteries are to be placed on a wooden pallet and stored in a dry, moderately cool area.

Lead acid batteries will slowly "self-discharge" over a period of time due to their chemical makeup. Damage to the battery will occur when battery voltage drops below 12.0 volts.

Inspect battery voltage at least once per month and maintain battery voltage above 12.50 volts. A discharged battery will freeze at −7.8 °C (18 °F). A fully-charged battery will freeze at −66 °C (86.8 °F).

The following procedure can be followed when placing a battery in storage or when not in operation for more than 30 days.

1. Give an equalizing charge prior to placing new batteries in storage. Used batteries are to be fully charged, then allowed to balance for approximately three more hours.

2. Clean the battery. Clean with a solution of 100 grams (3.5 oz) of sodium bicarbonate (baking soda) per 1 liter (0.25 gal) of water.

3. Store in a cool, dry location.

4. Maintain battery voltage above 12.50 volts.

5. Protect batteries from ambient contamination.

Putting a Stored ReachStacker Back Into Service

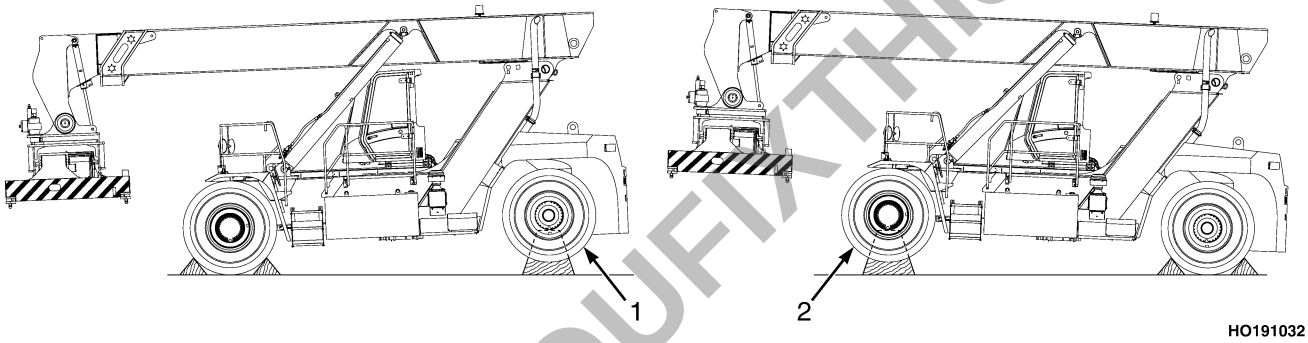
1. Remove all tape, covers, and preservation materials.

2. Check the ReachStacker for damage and missing components. Repair damage and/or replace missing components.

NOTE: If the ReachStacker has been stored longer than one year, all lubricants and fluids must be drained and replaced, or perform oil analysis to determine condition of lubricant and replace, if necessary. See the **Periodic Maintenance** section of your **Service Manual** for the procedures.

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1. STEERING TIRES
2. DRIVE TIRES

Figure 29. Put a ReachStacker on Blocks

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Capacities and Specifications

Table 33. Approved Fuel and Engine Oil

Engine Emission Legislation	WWFC Diesel Fuel	ASTM D975 Grade No. 2-D	Engine Oil	Quantity
Tier 4/Stage IV Engines	Category 4	S15	ACEA E9 API CJ-4	22.7 liter (24 qt)
Tier 3/Stage IIIA Engines	Category 4	S15	ACEA E7 or E9 API CI-4 or CJ-4	33 liter (34.9 qt)
	Category 2	S50	ACEA E7 API CI-4	
	Category 1	S500	ACEA E7 API CI-4 (see NOTES)	

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Table 5. Explanation of Fault Codes

Code Starts With	System	Reference or Explanation
E	Engine	See **Engine Fault Code Guide** 600 SRM 1101.
E5631	Engine	See **Regeneration** at the end of this table.
E5632	Engine	See **Regeneration** at the end of this table.
t	Transmission	See **APC200 Fault Code Guide** 1300 SRM 1435.
tE	Transmission	See **Table 6**.
h	Hydraulics	See **Hydraulic Control System** 1900 SRM 1534.
hCold	Hydraulics	Hydraulic oil temperature in the reservoir is below −5 °C (23 °F). All hydraulic functions can be operated normally, but the controller limits engine speed proportional to the hydraulic oil temperature. At −20 °C (−4 °F), the engine speed is limited to 1000 rpm. Above −5 °C (23 °F), the controller does not limit engine speed. Limitation of the engine speed reduces maximum hydraulic performance. Apply hydraulic functions to raise hydraulic oil temperatures.
hHot	Hydraulics	Hydraulic oil temperature in the reservoir exceeds 90 °C (194 °F). Reduce hydraulic oil temperature by reducing hydraulic power demand until code hHot has disappeared.
bHot	Brakes	Hydraulic oil temperature at the brakes exceeds 110 °C (230 °F). Reduce hydraulic oil temperature by reducing usage of the brakes eg by limiting travel speed.

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load on a 15% grade [a slope that increases 1.5 in 10 m (1.5 in 10 ft)].

NOTE: Do not park the ReachStacker so that it limits access to fire aisles, stairways, and fire equipment.

The operator must never leave a ReachStacker in a condition so that it can cause damage and injury. When parking the ReachStacker, do the following operations:

1. Stop the ReachStacker and apply the parking brake.

2. Raise the legs on an intermodal spreader. Retract the spreader to the 20-foot position. Fully retract and lower the boom.

3. Put the shift lever for the transmission in **NEUTRAL**.

⚠ CAUTION

The turbocharger can be severely damaged when switching off a hot engine when the 3 to 5 minute idle period is not performed.

4. Allow the turbocharger of the engine to cool down and to obtain the lowest possible turbo speed before stopping the engine. If engine coolant temperature is low to moderate, keep the engine at lowest idle for 3 minutes before turning the key switch to **OFF**. If engine temperature is high, keep the engine at lowest idle for at least 5 minutes before turning the key switch to **OFF**.

5. If the ReachStacker must be left on an incline, put blocks on the down hill side of the wheels so that the ReachStacker cannot move.

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⚠ WARNING

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN CAUSE SERIOUS INJURY OR DEATH!
AUTHORIZED, TRAINED OPERATOR ONLY!

KNOW THE EQUIPMENT:

- ALWAYS use 3 points of contact when getting on and off the ReachStacker.
- KNOW operating, inspection, and maintenance instructions in this **Operating Manual**.
- **DO NOT** operate or repair the ReachStacker unless trained and authorized.
- INSPECT ReachStacker before use.
- **DO NOT** operate if ReachStacker needs repair. Tag ReachStacker and remove key. Repair ReachStacker before use. Always use **Hyster Approved** parts when making repairs. Replacement parts must meet or exceed the specifications of the original equipment manufacturer.
- USE auxiliary equipment (attachments) for intended purpose only.

LOOK WHERE YOU ARE GOING:

- IF YOU CAN'T SEE, DON'T GO.
- TRAVEL in reverse if load blocks forward vision.
- MAKE SURE tail swing area is clear.
- SOUND horn at intersections or where vision is blocked.
- WATCH clearances, especially overhead.

KNOW YOUR LOADS:

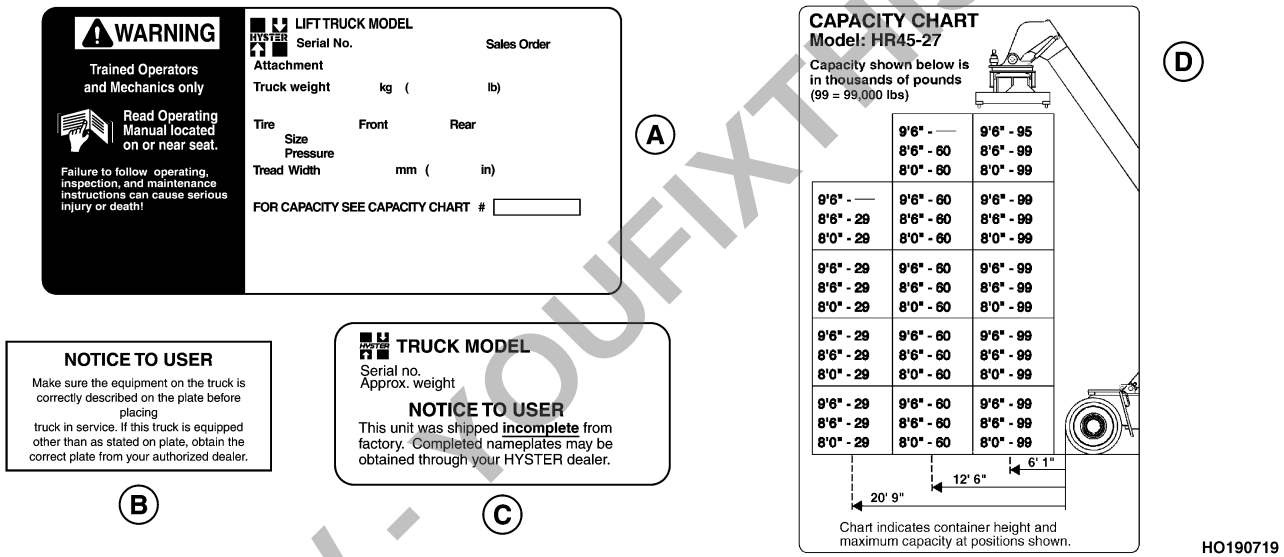
- HANDLE only stable loads within specified weight and load center. See Nameplate on ReachStacker.

USE COMMON SENSE:

- DO NOT use ReachStacker to lift people unless there is no other practical option. Then, use only a securely attached special work platform. Follow instructions in this **Operating Manual**.
- OBEY traffic rules. Yield right-of-way to pedestrians.

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A. NAMEPLATE **B.** NOTICE LABEL **C.** INCOMPLETE LABEL **D.** SAMPLE CAPACITY CHART

Figure 2. Nameplate and Label

Safety Labels

Safety labels are installed on the ReachStacker to give information about possible hazards. It is important that all safety labels are installed on the ReachStacker and can be read. See **Figure 3**. If labels that have warnings or cautions are damaged, they must be replaced. Refer to the **Parts Manual** for the labels and the location of the labels.

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Some of the components and systems described in this **Operating Manual** will **NOT** be installed on your unit. If you have a question about any item described, contact your dealer for **Hyster** ReachStackers.

Additional information that describes the safe operation and use of ReachStackers is available from the following sources:

- Employment safety and health standards or regulations [Examples: Occupational Safety and Health Standards (USA), Canada Material Handling Regulations.]
- Safety codes and standards (Example: Industrial Truck Standards Development Foundation, ANSI/ITSDF B56.1 *Safety Standard For Low Lift And High lift trucks.*)
- Publications from government safety agencies, government insurers, private insurers, and private organizations (Example: *Accident Prevention Manual For Industrial Operations,* from the National Safety Council).
- Guide for Users of Industrial lift trucks describes lift truck safety, good maintenance practices, and training programs. Available from your dealer for **Hyster** ReachStackers. **Hyster** Part No. 852930.

NOTE: Hyster ReachStackers are not intended for use on public roads.

NOTE: The following symbols and words indicate safety information in this manual:

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury and property damage.

On the lift truck, the WARNING symbol and word are on orange background. The CAUTION symbol and word are on yellow background.

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