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This section is for the following models:

S3.50-5.50XL (S70-120XL) [D004]; S6.00-7.00XL (S135-155XL) [B024, C024]

General

Do not make repairs or adjustments unless you have both authorization and training. Repairs and adjustments that are not correct can make a dangerous operating condition.

Do not operate a lift truck that needs repairs. Report the need for repairs immediately. If repair is necessary, put a DO NOT OPERATE tag in the operator's area. Remove the key from the key switch.

This section contains a Maintenance Schedule and the instructions for maintenance and inspection.

The Maintenance Schedule has time intervals for inspection, lubrication, and maintenance for your lift truck. The recommendation for the time intervals are for 8 hours of operation per day. The time intervals must be decreased from the recommendations in the Maintenance Schedule for the following conditions:

- If the lift truck is used more than 8 hours per day.
- If the lift truck must work in dirty operating conditions.

Your dealer for Hyster lift trucks has the equipment and trained service personnel to do a complete program of inspection, lubrication, and maintenance. A regular program of inspection, lubrication, and maintenance will help your lift truck give more efficient performance and operate for a longer period of time.

Some users have service personnel and equipment to do the inspection, lubrication, and maintenance shown in the Maintenance Schedule. Service Manuals are available from your dealer for Hyster lift trucks to help users who do their own maintenance.

SERIAL NUMBER DATA

The serial number for the lift truck is found on the nameplate and also on the right-hand side of the frame near the counterweight.

HOW TO MOVE DISABLED LIFT TRUCK

How to Tow Lift Truck

Use extra caution when towing a lift truck if any of the following conditions exist:

- Brakes do not operate correctly.
- Steering does not operate correctly.
- Tires are damaged.
- Traction conditions are bad.
- The lift truck must be towed on a slope.

If the engine cannot run, there is no power available for the hydraulic steering system and the service brakes. This condition can make the lift truck difficult to steer and stop. If the lift truck uses power from the engine to help apply the brakes, the application of the brakes will be more difficult. Poor traction can cause the disabled lift truck or towing vehicle to slide. A slope will also make the lift truck more difficult to stop.

Never lift and move a disabled lift truck unless the disabled lift truck MUST be moved and cannot be towed. A lift truck used to move a disabled lift truck MUST have a capacity rating equal to or greater than the weight of the disabled lift truck. The capacity of the lift truck used to move a disabled lift truck must have a load center equal to half the width of the disabled lift truck. See the nameplate of the disabled lift truck for the approximate total weight. The forks must extend the full width of the disabled lift truck. Put the weight center of the disabled lift truck on load center of the forks. Be careful to not damage the under side of the lift truck.

- 1. The towed lift truck must have an operator.
- 2. Tow the lift truck slowly.
- **3.** Raise the carriage and forks approximately 30 cm (12 in.) from the surface. Install a chain to prevent the carriage and mast channels from moving.
- 4. If another lift truck is used to tow the disabled lift truck, that lift truck must have an equal or larger capacity than the disabled lift truck. Install approximately 1/2 of a capacity load on the

forks of the lift truck that is being used to tow the disabled lift truck. This 1/2 capacity load will increase the traction of the lift truck. Keep the load as low as possible.

5. Use a towing link made of steel that fastens to the tow pins in the counterweights of both lift trucks.

HOW TO PUT LIFT TRUCK ON BLOCKS

How to Raise Drive Tires

The lift truck must be put on blocks for some types of maintenance and repair. The removal of the following assemblies will cause large changes in the center of gravity: mast, drive axle, engine and transmission, and the counterweight. When the lift truck is put on blocks, put additional blocks in the following positions to maintain stability:

- Before removing the mast and drive axle, put blocks under the counterweight so that the lift truck cannot fall backward.
- Before removing the counterweight, put blocks under the mast assembly so that the lift truck cannot fall forward.

The surface must be solid, even, and level when the lift truck is put on blocks. Make sure that any blocks used to support the lift truck are solid, one-piece units. **NOTE**: Some lift trucks have lifting eyes. These lifting eyes can be used to raise the lift truck so that blocks can be installed.

- 1. Put blocks on each side (front and back) of the steering tires to prevent movement of the lift truck. See Figure 1.
- **2.** Put the mast in a vertical position. Put a block under each outer mast channel.
- **3.** Tilt the mast fully forward until the drive tires are raised from the surface.
- **4.** Put additional blocks under the frame behind the drive tires.
- 5. If the hydraulic system will not operate, use a hydraulic jack under the side of the frame near the front. Make sure that the jack has a capacity equal to at least half the weight of the lift truck. See the nameplate.

How to Raise Steering Tires

- **1.** Apply the parking brake. Put blocks on both sides (front and back) of the drive tires to prevent movement of the lift truck. See Figure 1.
- **2.** Use a hydraulic jack to raise the steering tires. Make sure the jack has a capacity of at least 2/3 of the total weight of the lift truck as shown on the nameplate.
- **3.** Put the jack under the steering axle or frame to raise the lift truck. Put blocks under the frame to support the lift truck.



1. DRIVE TIRES

2. STEERING TIRES

Figure 1. How to Put Lift Truck on Blocks

(More Content includes: Brake system, Capacities, and specifications, Frame, Hydraulic, System, Industrial battery, Main control, Valve, Mast repair, Fasteners, Schematics diagrams, Steering axle, Steering system, Wire

harness repair And more)

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Maintenance Schedule

NOTE: GM V-6 ENGINE SHOWN.

*S6.00-7.00XL (S135-155XL) ONLY

Figure 2. Maintenance Points

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|---------------------------|----------------|------------------|-----------------|-----------------|---------------------|------------------|--------------------------|---|
| 1 | Tires, Tire Pressure | Х | | | | | | Check Condition | See Nameplate |
| 2 | Steering Axle Spindles | | | L | | | | 2 Fittings | Multipurpose Grease See NOTE 1 |
| 3 | Coolant Hoses | Х | | | | | | Check Condition | See Parts Manual |
| 4 | Cooling System | X | | | | | С | 15.1 liter (16.0 qt) | 50% Water and 50% Ethylene Glycol Boron-Free Antifreeze |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | - | | • |

Table 1.Maintenance Schedule

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|--|----------------|------------------|-----------------|-----------------|---------------------|------------------|-----------------------------------|---|
| 4 | Cooling System Clean Debris from Radiator Core | | | Х | | | | Clean as Needed | |
| 4 | Cooling System GM V6 EPA Compliant En- gine | Х | | | | С | | 15.1 liter (16.0 qt) | 50% Water and 50% Ethylene Glycol Boron-Free Antifreeze |
| 5 | Valve Adjustment GM V-6 | | | | | Х | | | Not Adjustable |
| | Valve Adjustment Diesel, All Units Inlet Valves (Cold) | | | | | Х | | Adjust as Required | 0.20 mm (0.008 in.) |
| | Valve Adjustment Diesel, All Units Exhaust Valves (Cold) | | | | | Х | | Adjust as Required | 0.45 mm (0.018 in.) |
| 6 | Air Filter | | | Х | | | | Clean or Replace See NOTE 2 | See Parts Manual |
| 6 | Air Filter GM V6 EPA Compliant En- gine | | Х | | | | | Clean or Replace See NOTE 2 | See Parts Manual |
| 6 | Air Filter Element GM V6 EPA Compliant En- gine | | | | | | С | See NOTE 3 | |
| 7 | Fuel Tank S3.50-5.50XL (S70-120XL) | X | | | | | | 66.2 liter (17.5 gal) | Gasoline [86 Octane (minimum)] Diesel No. 2 LPG - HD-5 |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|--|----------------|------------------|-----------------|-----------------|---------------------|------------------|-------------------------------------|---|
| 7 | $\begin{array}{l} {\rm Fuel \ Tank} \\ {\rm S6.00\text{-}7.00XL} \\ {\rm (S135\text{-}155XL,} \\ {\rm XL}_2, \qquad {\rm and} \\ {\rm S155XLS}) \end{array}$ | Х | | | | | | 66.2 liter (17.5 gal) | Gasoline [86 Octane (minimum)] Diesel No. 2 LPG - HD-5 |
| 8 | Engine Oil GM V-6 | Х | С | | | | | See NOTE 5 4.7 liter (5.0 qt) | -18 to 40°C (0 to 104°F) SAE 10W-30 API SL ILSAC GF-3 SAE 2362 |
| | Engine Oil (Diesel) Perkins 1004-42 Perkins 1104C-44(RE) | Х | | | С | | | See NOTE 5 8.0 liter (8.5 qt) | -15 to 40°C (5 to 104°F) SAE 10W-30 -10 to 50°C (14 to 122°F) SAE 15W-40 API CG4/CH4 ACEA E3/E5 MIL-PRF-2104G |
| | Seat Belts and Seat Rails | Х | | | | | | Check Condition | |
| | Hood Latch, Seat | Х | | | | | | Check Condition | |
| | Safety Labels | Х | | | | | | Replace as Necessary | See Parts Manual |
| | Check for Leaks - Fuel, Oil, Water | Х | | | | | | Check for Leaks See NOTE 4 | |
| | Horn, Gauges, Lights, Alarms | Х | | | | | | Check Operation | |
| 9 | Brake Fluid | | | Х | | | | 0.2 liter (0.4 pt) | SAE J-1703 |
| 10 | Timing GM V-6 | | | | | Х | | Adjust as Required | 0° BTDC @ 650 rpm |
| | Timing Diesel, All Units | | | | | Х | | Adjust as Required | 16° BTDC Static |
| | Engine Idle Speed GM V-6 | | | X | | | | Adjust as Required | 625 to 675 rpm |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|--|----------------|------------------|-----------------|-----------------|---------------------|------------------|--|---------------------------------------|
| | Engine Governed Speed GM V-6 | | | X | | - | | Adjust as Required | 2400 to 2500 rpm |
| | Engine Idle Speed Diesel | | | X | | | | Adjust as Required | 725 to 775 rpm |
| | Engine Governed Speed Diesel | | | X | | | | Adjust as Required | 2400 to 2500 rpm |
| 11 | Service Brakes | X | | | | | X | Check Operation | |
| 11 | Parking Brake | X | | | | L | | Check Operation Check Condition | Engine Oil |
| | Steering and Steering Wheel Position Latch | X | | | | | | Check Operation | |
| | Clutch, Brake, and Inching/ Brake Pedals | | | X | | L | | Adjust as Required | Hyster Part Number 328388 |
| 12 | Wheel Nuts Drive Wheels | | | X | | | | Check Torque | 610 to 680 N•m (450 to 500 lbf ft) |
| 13 | Mast, Carriage, and Attachments | X | | X | | | | Check Condition and Operation | |
| 13 | Mast, Sideshift Carriage Rollers | X | L | | | | | 4 Fittings | Multipurpose Grease See NOTE 1 |
| 14 | Mast Sliding Sur- faces and Load Roller Sur- faces | | L | | | | | As Required | Multipurpose Grease See NOTE 1 |
| 18 | Mast Fork Guides | | L | | | | | As Required | Multipurpose Grease See NOTE 1 |
| X=Ch | eck C=Change L= | Lubric | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|--|----------------|------------------|-----------------|-----------------|---------------------|------------------|---------------------------------------|--|
| 19 | Mast Pivots | | L | | | | | 2 Fittings | Multipurpose Grease See NOTE 1 |
| 15 | Forks | Х | | Х | | | | Check Condition | |
| 16 | Lift Chains | Х | L | Х | | | | Check Condition and Lubrication | Engine Oil |
| | Pedals, Levers, Linkages, Cables, Hinges, Seat Rails | | | | | L | | As Required | Engine Oil |
| 17 | Speed Reducer and Differential Oil, Single-Speed Powershift S3.50-5.50XL (S70-120XL) | | | | | Х | С | 5.7 liter (6.0 qt) See NOTE 6 | SAE 80W-90 SAE 85W-140 |
| 17 | Speed Reducer and Differential Oil, Two-Speed Powershift S6.00-7.00XL (S135-155XL, XL ₂ , and S155XLS) | | | | | Х | С | 14.2 liter (15.0 qt) See NOTE 6 | SAE 80W-90 SAE 85W-140 |
| 17 | Manual Transmission, Differential Oil S3.50-5.50XL (S70-120XL) (B024) | | | | | Х | С | 14.2 liter (15.0 qt)See NOTE 6 | SAE 80W-90 SAE 85W-140 |
| 20 | Powershift Transmission Oil (Single-Speed) S3.50-5.50XL (S70-120XL) | Х | | | | | С | 15.1 liter (16 qt) See NOTE 5 | Hyster Part Number 336831 Change oil filter when transmission oil is changed. |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|---|----------------|------------------|-----------------|-----------------|---------------------|------------------|-------------------------------------|--|
| 20 | $\begin{array}{l} \mbox{Powershift} \\ \mbox{Transmission} \\ \mbox{Oil} (\mbox{Two-Speed}) \\ \mbox{S6.00-7.00XL} \\ \mbox{(S135-155XL,} \\ \mbox{XL}_2, \\ \mbox{XL}_2, \\ \mbox{S155XLS}) \end{array}$ | Х | | | | | С | 15.1 liter (16 qt) See NOTE 5 | Hyster Part Number 336831 Change oil filter when transmission oil is changed. |
| 21 | Oil Clutch System, Oil Level S3.50-5.50XL (S70-120XL) (B024) | Х | | | | | C | 9.4 liter (10 qt) | Hyster Part Number 336831 Change oil filter when clutch oil is changed. |
| | Transmission and Clutch | Х | | | | | | Check Operation | |
| 22 | Oil Filter, Hydraulic System | | | | | | С | 1 See NOTE 5 | See Parts Manual |
| 23 | Hydraulic Tank Breather | | | Х | | | | Clean or Replace | See Parts Manual |
| 24 | Hydraulic System S3.50-5.50XL (S70-120XL) | X | | | | | С | 37.0 liter (9.7 gal) | -18°C (0°F) and above SAE 10W API CC or CC/SE/SF/SG MIL-L-46152 |
| 24 | $\begin{array}{l} {\rm Hydraulic} \\ {\rm System} \\ {\rm S6.00\text{-}7.00XL} \\ {\rm (S135\text{-}155XL,} \\ {\rm XL}_2, \\ {\rm XL}_2, \\ {\rm S155XLS}) \end{array}$ | X | | | | | C | 42.0 liter (11.0 gal) | -18°C (0°F) and above SAE 10W API CC or CC/SE/SF/SG MIL-L-46152 |
| 25 | Crankcase Breather GM V-6 | | Х | | | С | | 1 See NOTE 7 | See Parts Manual |
| | Crankcase Breather Perkins 1004-42 and 1104C-44(RE) Diesel | | | | X | С | | 1 See NOTE 7 | See Parts Manual |
| | Primary Fuel Filter, Diesel | X | | | | C | | Drain Water | See Parts Manual |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|--|----------------|------------------|-----------------|-----------------|---------------------|------------------|--------------------------------|---------------------------------------|
| 26 | Battery Electrolyte, Battery Case and Cables | X | | Х | | | | Check Level, Clean | See Parts Manual |
| 27 | Drive Belts | Х | | Х | | | | Check Condition | See Parts Manual |
| 28 | Wheel Nuts Steer Wheels | | | Х | | | | Check Torque | 610 to 680 N•m (450 to 500 lbf ft) |
| | Drive Shaft and Universal Joints S6.00-7.00XL (S135-155XL, XL ₂ , and S155XLS) | | L | | | | | 2 Fittings | Multipurpose Grease See NOTE 1 |
| | Engine Oil Filter GM V-6 | | С | | | | | See NOTE 5 | See Parts Manual |
| | Engine Oil Filter Diesel Perkins 1004-42 Perkins 1104C- 44(RE) | | | | С | | | See NOTE 5 | See Parts Manual |
| | Final Fuel Filter, Diesel | | | | | С | | 1 | See Parts Manual |
| | Spark Plugs | | | | | С | | Check Plug Wires 6 Plugs | See NOTE 8 |
| | PCV Valve GM V-6 | | | | Х | | С | 1 | See Parts Manual |
| | Fuel Filter Gasoline | | | | | | С | 1 | See Parts Manual |
| | Fuel Filter LPG | | | | | | С | 1 | See Parts Manual |
| | Fuel Filter, LPG GM V6 EPA Compliant En- gine | | | | | C | | 1 | See Parts Manual |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification |
|-------------|--|----------------|------------------|-----------------|-----------------|---------------------|------------------|---------------------------|---------------|
| | Inspect Engine Electrical System, Connectors, and FCVS Connection | | | | | Х | | | |
| | Inspect Engine Vacuum, Fuel Lines, and Fittings | | | | | | Х | | |
| | Inspect Lock Off for Leaks, and Ensure Lock Off Closing | | | | | | Х | | |
| | Test LPG/GAS Regulator Pressure | | | | | | Х | | |
| | Inspect Low Pressure Regulator for Oil Build Up and Leaks | | | | | | Х | Drain Oil if Necessary | |
| | Check Air Induction System for Leaks | | | | | | Х | | |
| | Check Manifold for Vacuum Leaks | | | | | | Х | | |
| | Check Throttle Shaft for Sticking | | | | | | Х | | |
| | Check Injectors and Rails for Leaks | | | | | | Х | | |
| | Inspect Exhaust Manifold, and Exhaust Piping for Leaks | | | | | | X | | |
| | Inspect Catalyst Inlet and Outlet | | | | | | X | | |
| X=Ch | eck C=Change L= | Lubrica | ate | | | | | | |

| Item No. | Item | 8 hr/ Daily | 250 hr/ 6 wks | 350 hr/ 2 mo | 500 hr/ 3 mo | 1000 hr/ 6 mo | 2000 hr/ 1 yr | Procedure or Quantity | Specification | | |
|---|--|----------------------------------|----------------------|------------------------|--------------------|---------------------|------------------|-----------------------------|-------------------|--|--|
| | Oxygen Sensor Connector GM V6 EPA Compliant En- gine | | | | | | X | Check Indicator Light | | | |
| NOTE | NOTE 1: Multipurpose Grease with 2 to 4% Molybdenum Disulfide. | | | | | | | | | | |
| NOTE | 2: Very dirty con | ditions | require d | laily clea | n and ch | eck. | | | | | |
| NOTE | 3: In dirty or dus | ty envi | ronment | s, replace | e at 1,000 | hours. | | | | | |
| NOTE | 4: Check fuel sys | tem for | leaks pr | ior to any | y service | or maint | enance ac | tivity. | | | |
| NOTE | 5: Change filter of | on new | lift truck | s at the f | irst 100 I | hours on | the hourn | neter. | | | |
| NOTE ments | 6: Check the thrus after first 150 ho | ist scre [.] urs are | w adjustr normall | nent on t y not nee | he differe ded. | ential aft | er the firs | t 150 hours of o | peration. Adjust- | | |
| NOTE | NOTE 7: Check the crankcase breather after every engine oil change. | | | | | | | | | | |
| NOTE 8: See Capacities and Specifications 8000 SRM 454. | | | | | | | | | | | |
| X=Ch | eck C=Change L= | Lubrica | ite | | | | | | | | |

Safety Procedures When Working Near Mast

The following procedures must be used when inspecting or working near the mast. Additional precautions and procedures can be required when repairing or removing the mast. See the correct Service Manual section for the specific mast being repaired.

🛕 WARNING

Mast parts are heavy and can move. Distances between parts are small. Serious injury or death can result if part of the body is hit by parts of the mast or the carriage.

- Never put any part of the body into or under the mast or carriage unless all parts are completely lowered or a safety chain is installed. Also make sure that the power is off and the key is removed. Put a DO NOT OPERATE tag in the operator's compartment.
- Be careful of the forks. When the mast is raised, the forks can be at a height to cause an injury.
- DO NOT climb on the mast or lift truck at any time. Use a ladder or personnel lift to work on the mast.

- DO NOT use blocks to support the mast weldments nor to restrain their movement.
- Mast repairs require disassembly and removal of parts and can require removal of the mast or carriage. Follow the repair procedures in the correct Service Manual section for the mast.

WHEN WORKING NEAR THE MAST ALWAYS:

1. Lower the mast and carriage completely. Push the lift/lower control lever forward and make sure there is no movement in the mast. Make sure that all parts of the mast that move are fully lowered.

OR

- 2. If parts of the mast must be in the raised position, install a safety chain to restrain the moving parts of the mast. Connect moving parts to a part that does not move. Follow these procedures:
 - **a.** Put the mast in a vertical position.

- **b.** Raise the mast to align the bottom crossmember of the weldment that moves in the outer weldment with a crossmember on the outer weldment. On the two-stage and freelift mast, the moving part is the inner weldment. On the three-stage mast, it is the intermediate weldment. See Figure 3.
- c. Use a 3/8-in. minimum safety chain with a hook to fasten the crossmembers together so that the movable member cannot lower. Put the hook on the back side of the mast. Make sure the hook is completely engaged with a link in the chain. Make sure the safety chain does not touch lift chains or chain sheaves, tubes, hoses, fittings, or other parts on the mast.
- d. Lower the mast until there is tension in the safety chain and the free-lift cylinder (free-lift and three-stage masts only) is completely retracted. If running, stop the engine. Apply the parking brake. Install a DO NOT RE-MOVE tag on the safety chain(s).
- e. Install another safety chain (3/8-in. minimum) between the top or bottom crossmember of the carriage and a crossmember on the outer weldment.
- **3.** Apply the parking brake. After lowering or restraining the mast, shut off the power and remove the key. Put a **DO NOT OPERATE** tag in the operator's compartment.



- A. TWO-STAGE LFL MAST
- 1.
- OUTER WELDMENT 2.
- 3. INTERMEDIATE WELDMENT
- B. TWO-STAGE FFL MAST
- 4. HOOK

- 5. FREE-LIFT CYLINDER
 6. CROSSMEMBER
- C. THREE-STAGE FFL MAST
- 7. CROSSMEMBER
- Figure 3. Two-Stage LFL, Two-Stage FFL, and Three-Stage FFL Masts