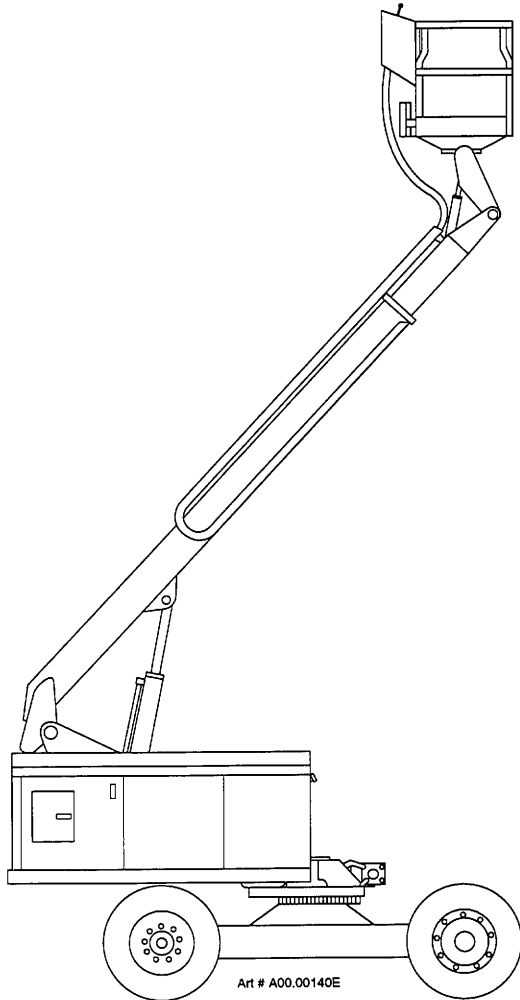




# OPERATOR'S MANUAL

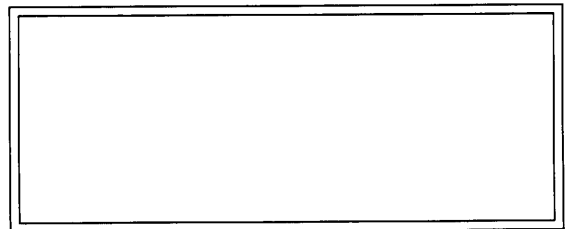
## SELF-PROPELLED BOOM LIFT

### MODEL MP 40



## OPERATION AND OPERATOR MAINTENANCE MANUAL

FOR PARTS OR SERVICE  
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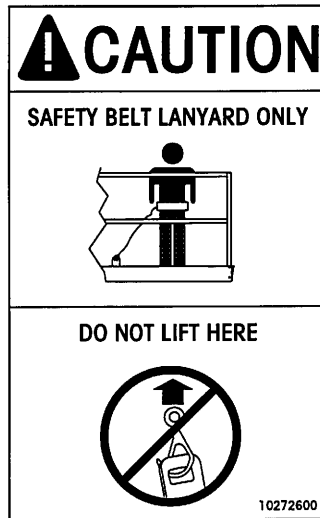
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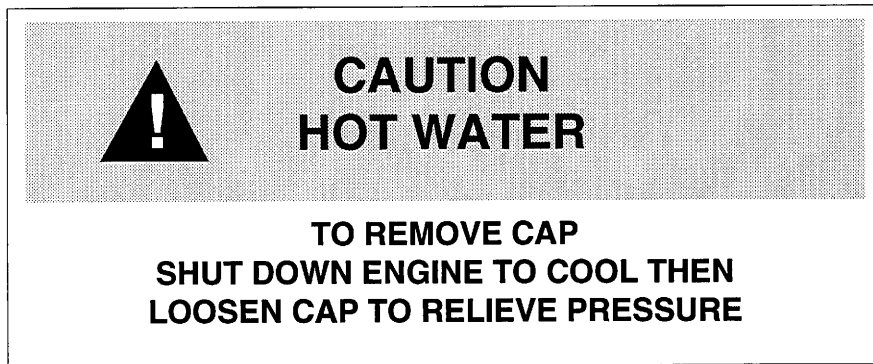
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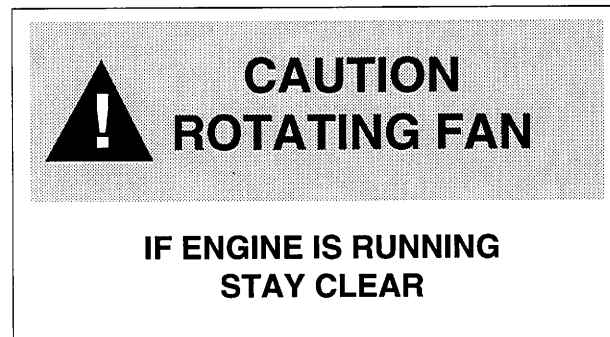
**SAFETY-RELATED DECALS (CONTINUED)**



10-272600 Decal, "CAUTION, Safety Belt Lanyard"



10-094700 Decal, "CAUTION HOT WATER . . ." (for versions with liquid cooled engine)



10-094900 Decal, "CAUTION, ROTATING FAN . . ." (for versions with liquid cooled engine)

# SECTION 2: OPERATION

## OPERATOR CONTROLS DESCRIPTION (PLATFORM CONTROLS)

Item	Control	Location	Description
1.	Emergency Stop Button	On Platform Console Panel	<p>Used to stop all functions in an emergency. Push for emergency stop. Pull or rotate clockwise to reset, depending on style used.</p> <p>When the button is reset, the engine distress light will flash three times and the chassis tilt alarm will sound three times. <b>If any of these indications do not occur at reset, do not operate machine</b></p>
2.	Off/ On/ Start Toggle	On Platform Console Panel	<p>Three position toggle switch. Up is "OFF". Move to center position to turn ignition "ON", down to engage starter. If the engine does not start within 10 seconds, switch must be turned off and then on again to start.</p> <p><b>IMPORTANT:</b> Engine will not start with foot switch depressed.</p>
3.	Glow Plug/ Choke/ Idle/ Operating Speed Toggle (Engine Throttle)	On Platform Console Panel	<p>Flip toggle to center position for low (idle) engine speed, up for mid range (operating) engine speed for generator use.</p> <p>Choke toggle for gas or dual fuel engines. Press and hold while starting a cold engine.</p> <p>Glow plug toggle for some Diesels. Press and hold (if so equipped) to preheat combustion chamber before starting a cold engine.</p>
4.	Emergency Pump Push Button	On Platform Console Panel	<p>Press and hold to activate battery powered hydraulic pump, allowing operation of boom or platform functions should the engine powered hydraulic pump be disabled. Must be used with foot switch,</p>
5.	Engine Distress Light	On Platform Console Panel	<p>Red light indicates low engine oil pressure, high engine coolant temperature or broken fan belt (if so equipped). Engine will shut down automatically if condition does not correct itself in approximately 10 seconds.</p>

## PLATFORM OPERATION AND CHECKS

- Complete Ground Operation Checks before performing Platform Operation Checks.
- Select "PLATFORM CONTROLS" with the "GROUND/ PLATFORM" key switch.
- Enter the platform. Close gate securely.
- Ensure that the "EMERGENCY STOP" button is released.
- Move "OFF/ ON/ START" toggle to center position to turn ignition "ON", down to engage starter, then release it to the "ON" position.
- Flip the "ENGINE THROTTLE" toggle to "OPERATING SPEED".



**BE SURE BOOM TRAVEL AREA IS CLEAR OF OBSTRUCTIONS.**

**DO NOT OPERATE THE MACHINE IF THESE CHECKS REVEAL ANY DEFECT OR ABNORMALITY.**

- Press the "HORN" button briefly to check that the horn works. The horn also acts as a signal for the tilt alarm as well as its normal warning function.
- Depress the foot switch mounted on the floor of the platform. (Activate foot switch to operate any of the machine functions.)
- Slowly move the "BOOM/ SWING" lever forward to the "BOOM UP" position. The boom will start to rise. Function speed will be proportional to handle movement. Raise the boom to the horizontal position. Slowly return the lever to the center position.
- Slowly move the "EXTEND/ RETRACT" lever back to the "EXTEND" position. Extend boom out a short distance. Extend speed will be proportional to handle movement.
  - \_\_\_ Listen for any unusual noises.
  - \_\_\_ Check for any vibration while the boom telescopes out.
  - \_\_\_ Check for uneven or jerky operation.
  - \_\_\_ Check for hydraulic leaks.
  - \_\_\_ Report to supervisor and repair any problem.

## TRANSPORTING THE MACHINE

### TOWING PROCEDURES

#### WITHOUT OPTIONAL TOWING PACKAGE:

- If optional towing package is not installed, refer to "UNPOWERED EMERGENCY MOVEMENT" in this section.

#### WITH OPTIONAL TOWING PACKAGE:

- Securely attach the machine to a tow vehicle with the tow bar provided.
- Disengage torque hubs:



**WHENEVER DISENGAGING THE DRIVE TORQUE HUBS OR BEFORE DISCONNECTING FROM TOWING VEHICLE, ENSURE THAT THE MACHINE CANNOT ROLL.**

**Type 1:** remove the plate in the center of the torque hub, turn the plate so that the boss faces in, then reinstall the plate.

**Type 2:** Push the plunger at the center of the torque hub in to disengage the hub. Two outer plungers will pop out.

- Pull steer wander control valve, located near the ground controls, to allow steering wheels to track behind tow vehicle.

The tow vehicle must have sufficient braking capability in order to safely stop itself as well as the machine. Tow speed shall not exceed 3 MPH (4.8 KPH).

## GENERAL MAINTENANCE TIPS

- Never leave hydraulic components or hoses open. They must be protected from contamination (including rain) at all times.
- Never open a hydraulic system or disassemble engine when there are contaminants in the air.
- Use only recommended lubricants. Improper lubricants or incompatible lubricants may be as harmful as no lubrication (see Lubrication Chart).
- ALWAYS clean the surrounding area before opening hydraulic system or disassembling engine systems.
- Watch for makeshift "fixes" which can jeopardize safety as well as lead to more costly repairs.
- Any work platform found not to be in safe operating condition should be removed from service until repaired. All repairs should be made by authorized personnel in conformance with the operator's, service, and repair manuals of the manufacturer.

# SEMI-ANNUAL OPERATIONAL CHECKLIST (CONTINUED)

**SEMI-ANNUAL OPERATIONAL CHECKLIST**

INITIAL	DESCRIPTION
_____	8. Drain and replace fluid from swing drive and power hubs. If badly contaminated, it may be necessary to disassemble and inspect components.
_____	9. Clean and lubricate the standard open swing bearing gear teeth with dry moly lube spray.
_____	10. Repack front wheel bearings.
_____	11. Follow engine semi-annual service requirements. Refer to the Engine Maintenance Manual supplied with your machine.
	<b>EVERY YEAR</b>
_____	12. Drain and replace fluid from hydraulic reservoir. Drain and replace fluid from drive wheel power hubs. If badly contaminated, it may be necessary to disassemble and inspect components.
	<b>EVERY TWO YEARS</b>
_____	13. Drain and replace fluid from swing drive motor assembly. If badly contaminated, it may be necessary to disassemble and inspect components.

## ADDITIONAL MAINTENANCE REQUIREMENTS FOR SEVERE USAGE APPLICATIONS

<b>EVERY SIX MONTHS</b>	
_____	• Drain and replace fluid from swing drive motor assembly and drive wheel power hubs.
_____	• Follow engine severe usage service requirements. Refer to the Engine Maintenance Manual supplied with your machine.

## ANSI/SIA A92.5 - 1992 (PARTIAL)

### 5. RESPONSIBILITIES OF DEALERS

**5.1 Basic Principles.** Sound principles of safety, training, inspection, maintenance, application and operation consistent with all data available regarding the parameters of intended use and expected environment shall be applied in the training of operators, in maintenance, application, safety provisions and operation of the aerial platform with due consideration of the knowledge that the unit will be carrying personnel.

**5.2 Manuals.** Dealers shall keep and maintain copy(ies) of the operating and maintenance manual(s) required in section 4.19 of this standard. Operating manual(s) shall be provided with each rental, lease, or sale delivery. These manual(s) shall be stored in the location required by section 4.20 of this standard. These manual(s) are considered an integral part of the aerial platform and are vital to communicate necessary safety information to users and operators. In addition, parts and maintenance manual(s) shall be provided with each sale delivery.

**5.3 Predelivery Preparation.** Aerial platforms shall be inspected, serviced and adjusted to manufacturer's requirements prior to each delivery by sale, lease or rental.

**5.4 Maintenance Safety Precautions.** Before adjustments and repairs are started on an aerial platform, the following precautions shall be taken as applicable:

- (a) Powerplant stopped and starting means rendered inoperative.
- (b) All controls in the "off" position and all operating systems secured from inadvertent motion by brakes, blocks, or other means.
- (c) Boom and platform lowered to the full down position, if possible, or otherwise secured by blocking or cribbing to prevent dropping.
- (d) Hydraulic oil pressure relieved from all hydraulic circuits before loosening or removing hydraulic components.
- (e) Safety props or latches installed where applicable as prescribed by the manufacturer.

**5.5 Replacement Parts.** When parts or components are replaced, they shall be identical or equivalent to original aerial platform parts or components.

**5.6 Training.** Whenever a dealer directs or authorizes an individual to operate an aerial platform he shall ensure that the individual has been trained under the direction of a qualified person in accordance with the manufacturer's operating manual and requirements listed in section 8, of this standard, before operating the aerial platform.

**5.6.1 Training on Delivery.** Manufacturer's operating instruction and required training on the proper use and operation of the aerial platform shall be provided upon each delivery by sale, lease or rental.

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