

Operator Manual

MX15 / MX19

SERIAL NO. 20000 to Current

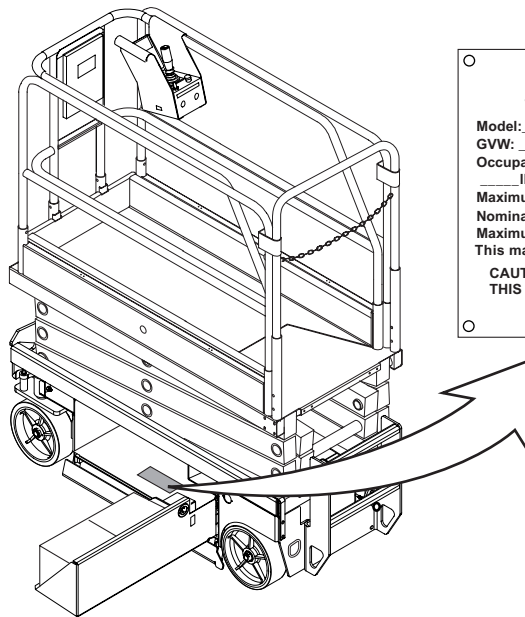
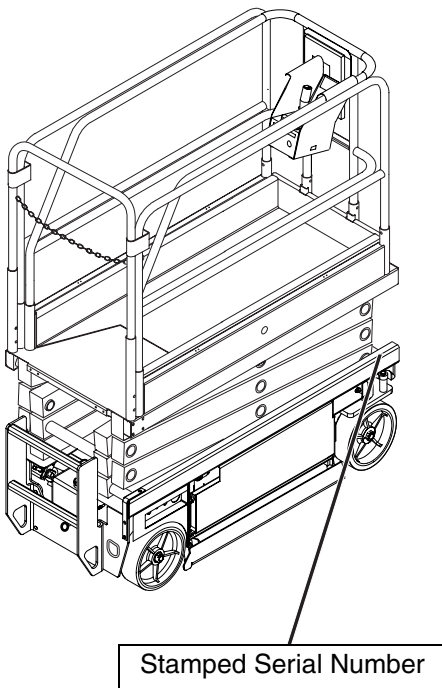
WARNING

All personnel shall carefully read, understand and follow all safety rules, operating instructions, and the Scaffold Industry Association's MANUAL OF RESPONSIBILITIES of ANSI A92.6-1999 before performing maintenance on or operating any UpRight Aerial Work Platform.

MX15 / MX19

Serial Number 20000 – Current

When contacting UpRight for service or parts information, be sure to include the MODEL and SERIAL NUMBERS from the equipment nameplate. Should the nameplate be missing, the SERIAL NUMBER is also stamped on top of the chassis above the front axle pivot.



UpRight Inc.	
1775 PARK ST. SELMA CALIFORNIA 93662 USA	
Model: _____	Serial number: _____
GVW: _____ lbs.	Mfg. date: _____
Occupants and equipment must not exceed the rated workload	
_____ lbs.	Rated number of occupants: _____
Maximum platform height: _____ ft.	
Nominal system voltage: _____ vdc	
Maximum wheel and/or outrigger load: _____ lbs.	
This machine is manufactured to comply with ANSI A92.6-1999.	
CAUTION: CONSULT OPERATOR'S MANUAL BEFORE USE.	
THIS PLATFORM IS NOT ELECTRICALLY INSULATED	

UpRight, Inc.

801 South Pine Street
Madera, California 93637

TEL: 559-662-3900

FAX: 559-673-6184

PARTS: 1-888-UR-PARTS

PARTS FAX: 1-800-669-9884

UpRight

Call Toll Free in U.S.A.

1-800-926-LIFT

UpRight

Unit S1, Park West Industrial Park
Friel Avenue
Nangor Road
Dublin 12, Ireland

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OPERATOR MANUAL

WARNING

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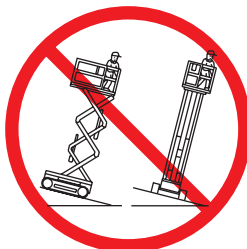
Safety Rules

Electrocution Hazard



NEVER operate the machine within ten (10) feet of power lines.
THIS MACHINE IS NOT INSULATED.

Tip Over Hazard



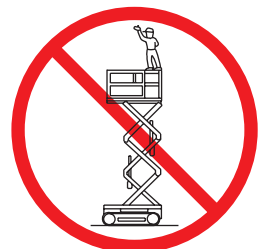
NEVER operate or drive with the platform elevated unless on firm, level surface.

Collision Hazard



NEVER position the platform without first checking for overhead obstructions or other hazards.

Fall Hazard



NEVER climb, stand or sit on the platform guardrails or midrail.

- **NEVER** operate the machine without first surveying the work area for surface hazards such as holes, drop-offs, bumps, curbs, or debris.
- **NEVER** operate the machine if all guardrails are not properly in place and secured with all fasteners properly torqued.
- **ALWAYS** close and secure the entrance after entering the platform.
- **NEVER** use ladders or scaffolding on the platform.
- **NEVER** exceed the maximum platform load. See "Specifications" on page 16.
- **NEVER** attach overhanging loads or increase platform size.
- **LOOK** up, down and around for overhead obstructions and electrical conductors.
- **DISTRIBUTE** all platform loads evenly on the platform.
- **NEVER** use damaged equipment. (Contact UpRight for instructions. See toll free phone number on inside back cover.)
- **NEVER** change operating or safety systems.
- **INSPECT** the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, damaged cables or hoses, loose wire connections, and wheel bolts.
- **NEVER** climb down elevating assembly when the platform is elevated.
- **IF ALARM SOUNDS** while the platform is elevated, **STOP**, carefully lower the platform. Move the machine to a firm, level surface.
- **IN CASE OF EMERGENCY** push the Emergency Stop button to cut power to all machine functions.
- **NEVER** perform service on the machine while the platform is elevated without blocking the elevating assembly.
- **NEVER** recharge batteries near sparks or open flame; batteries that are being charged emit explosive hydrogen gas.
- **NEVER** replace any component or part with anything other than original UpRight replacement parts without the manufacturer's written consent.
- **VERIFY** that all labels are in place and legible before using.
- **NEVER** tow the machine. Transport by truck or trailer only.
- **AFTER USE**, secure the machine against unauthorized use by turning the key switch off and removing the key.

California Proposition 65 Warning

Gasoline and diesel engine exhaust and some of their constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery Posts, terminals and related accessories contain lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

CONTENTS

Introduction	3
General Description	3
Controls and Indicators	4
Pre-Operation Safety Inspection	5
System Function Inspection	6
Operation	7
Platform Extension	7
Travel With the Platform Lowered	7
Steering	7
Elevating the Platform	8
Travel With the Platform Elevated	8
Lowering the Platform	8
Emergency Lowering	9
Parking Brake Release	9
After Use Each Day	9
Transporting the Work Platform	10
By Crane	10
By Forklift	10
By Truck	10
Maintenance	11
Blocking The Elevating Assembly	11
Scissor Brace Installation	11
Scissor Brace Storage	11
Hydraulic Fluid	11
Battery Maintenance	12
Battery Charging	12
Daily Inspection and Maintenance Schedule	13
Daily Preventative Maintenance Checklist	13
Labels	14
Specifications	16

INTRODUCTION

This manual covers the application of the MX15 and MX19 Aerial Work Platforms. **This manual must be stored on the machine at all times.**

Read, understand and follow all safety rules and operating instructions before attempting to operate the machine.

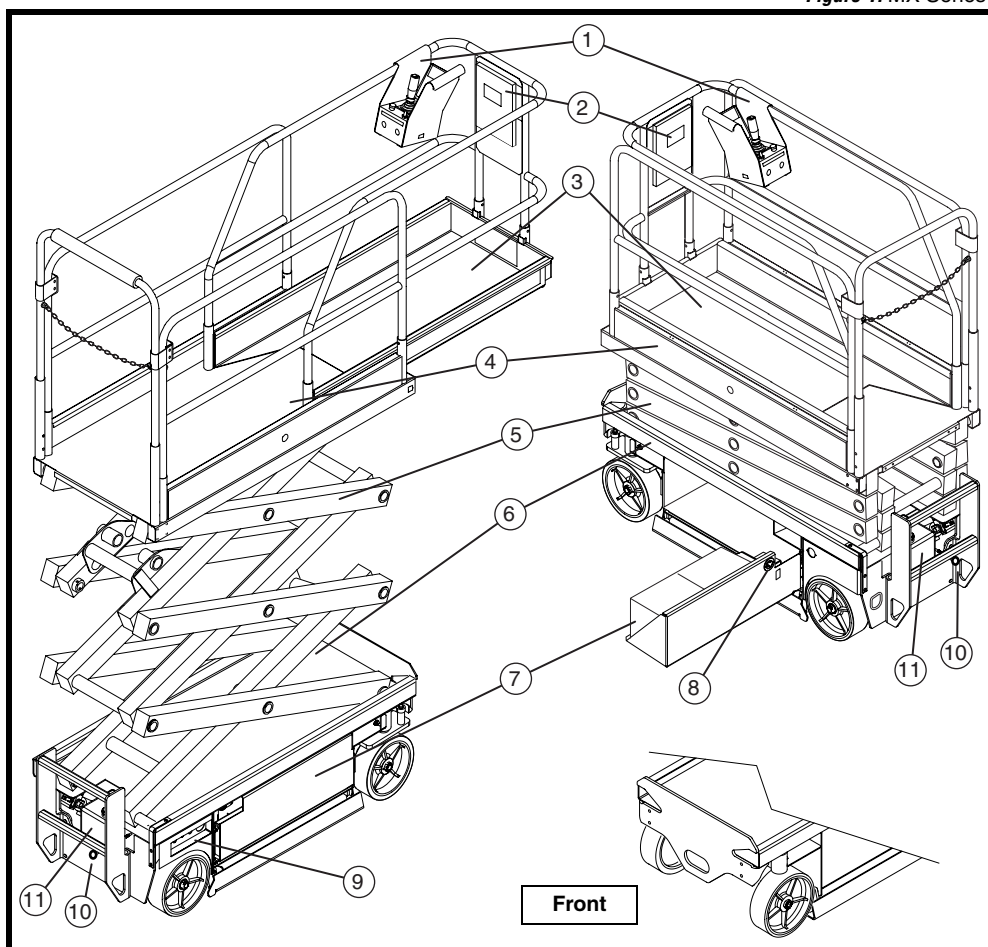
GENERAL DESCRIPTION

⚠ WARNING ⚠

DO NOT use the machine without guardrails properly assembled and in place.

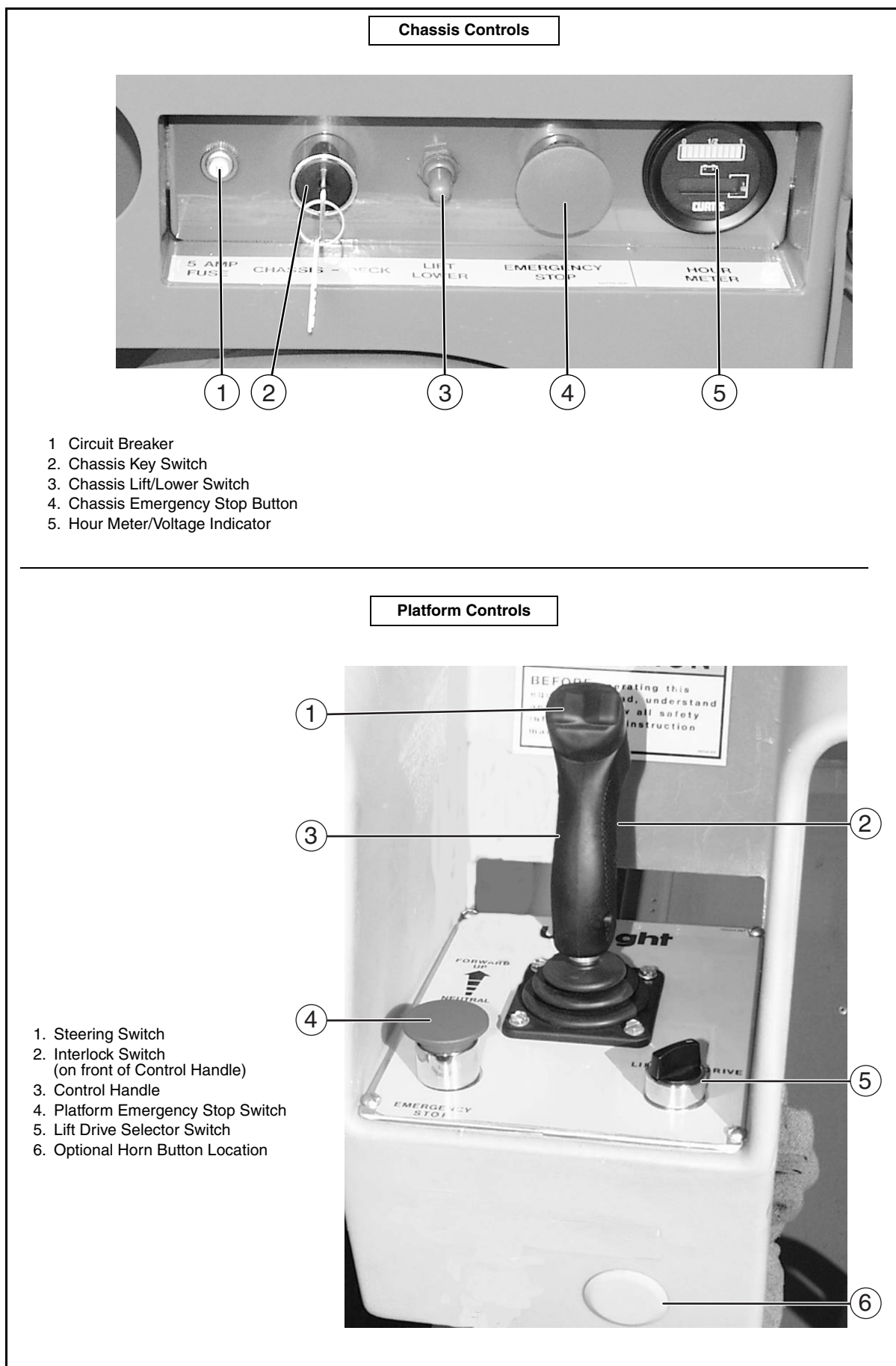
Figure 1: MX Series

1. Platform Controls
2. Manual Case
3. Deck Extension
4. Platform
5. Elevating Assembly
6. Chassis
7. Batteries
8. Charger Outlet Plug
9. Chassis Controls
10. Emergency Lowering Valve Knob
11. Hydraulic Fluid Reservoir



CONTROLS AND INDICATORS

Figure 2: Controls and Indicators



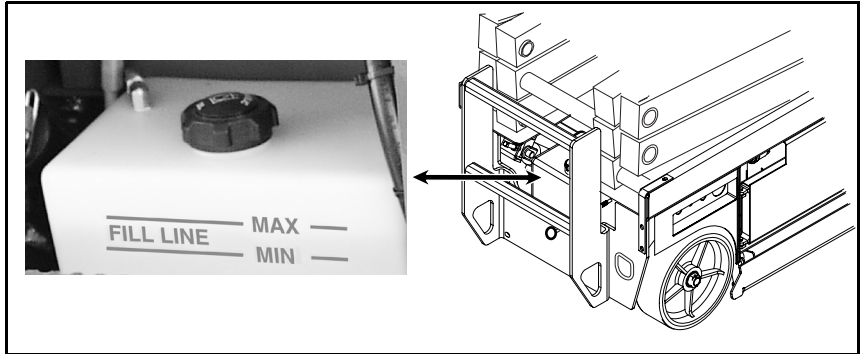
PRE-OPERATION SAFETY INSPECTION

NOTE: Carefully read, understand and follow all safety rules, operating instructions, labels and the Scaffold Industry Association's **MANUAL OF RESPONSIBILITIES** of ANSI A92.6-1999. Perform the following steps each day before use.

1. Open modules and inspect for damage, fluid leaks or missing parts.

Figure 3: Hydraulic Reservoir

2. Check the level of the hydraulic fluid with the platform fully lowered. The hydraulic reservoir is located at the rear of the machine. The fluid level should be visible through the side of the reservoir, and must be between the MIN and MAX lines (see Figure 3). Add hydraulic fluid if necessary.



3. Check that fluid level in the batteries is correct (See "Battery Maintenance" on page 12).
4. Verify that batteries are charged.
5. Check that A.C. extension cord has been disconnected from the plug in the left Chassis Module, and that the module doors are closed and locked.
6. Check that all guardrails are properly in place and secured with all fasteners properly torqued.
7. Inspect the machine thoroughly for cracked welds, loose or missing hardware, hydraulic leaks, damaged cables or hoses, loose wire connections, and wheel bolts.

SYSTEM FUNCTION INSPECTION

Refer to Figure 2 for the locations of various controls and indicators.

! WARNING !

STAND CLEAR of the machine while performing the following checks.

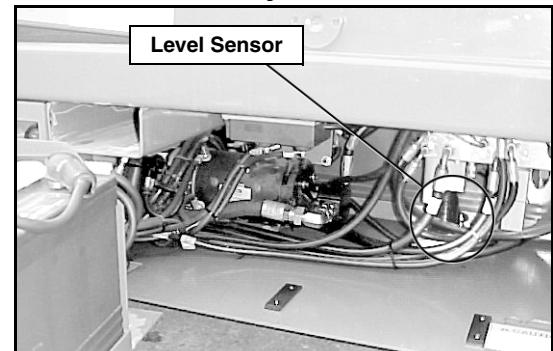
Before operating the machine, survey the work area for surface hazards such as holes, drop-offs, bumps, curbs, or debris.

LOOK up, down and around for overhead obstructions and electrical conductors.

Protect the control cable from possible damage while performing checks.

1. Move the machine, if necessary, to an unobstructed area to allow for full elevation.
2. Pull Chassis Emergency Stop Switch to the ON position.
3. Pull Platform Emergency Stop Switch to the ON position.
4. Turn and hold the Chassis Key Switch to CHASSIS.
5. Check Level Sensor operation:
 - a. Open the door.
 - b. Push and hold the sensor off of level.
 - c. Push the Chassis Lift Switch to the UP position.
 - The alarm should sound, and the platform should not lift.
 - d. Close and latch the door.
6. Push the Chassis Lift/Lower Switch to the UP position and raise the platform approximately 2,1 m (7 feet).
BLOCK THE ELEVATING ASSEMBLY AS DESCRIBED ON page 11.
7. Visually inspect the elevating assembly, lift cylinder, cables, and hoses for cracked welds and structural damage, loose hardware, hydraulic leaks, loose wire connections, and erratic operation. Check for missing or loose parts.
8. Verify that the Depression Mechanism Supports have rotated into position under the machine.
REMOVE THE SCISSOR BRACE AS DESCRIBED ON page 11.
9. Push the Chassis Lift/Lower Switch to the UP position and fully elevate the platform. Partially lower the platform by pushing Chassis Lift/Lower Switch to LOWER, and check for proper operation of the audible lowering alarm.
10. Open the Emergency Lowering Valve (see Figure 3) by pulling the knob out to check for proper operation. When the platform is lowered, release the knob.
11. Push the Chassis Emergency Stop Switch to check for proper operation. All machine functions should be disabled. Pull out the Chassis Emergency Stop Switch to resume.
12. Turn the Chassis Key Switch to DECK.
13. Check that route is clear of obstacles (persons, obstructions, holes, and drop-offs, bumps and debris), is level, and is capable of supporting the wheel loads.
14. Mount the platform and properly close the entrance.
15. Turn the Drive/Lift Switch to DRIVE. While engaging the Interlock Switch, move the Control Handle to FORWARD, then REVERSE, to check for speed control.
16. Push the Steering Switch RIGHT, then LEFT, to check for steering control.
17. Turn the Drive/Lift Switch to LIFT. Grasp the Control Handle, engaging the Interlock Switch, and push it forward to check platform lift controls. Raise the platform to full elevation.
18. Pull back on the Control Handle. The platform should descend and the audible lowering alarm should sound.
19. Push the Platform Emergency Stop Switch to check for proper operation. All machine functions should be disabled. Pull out the Platform Emergency Stop Switch to resume.

Figure 4: Level Sensor Location



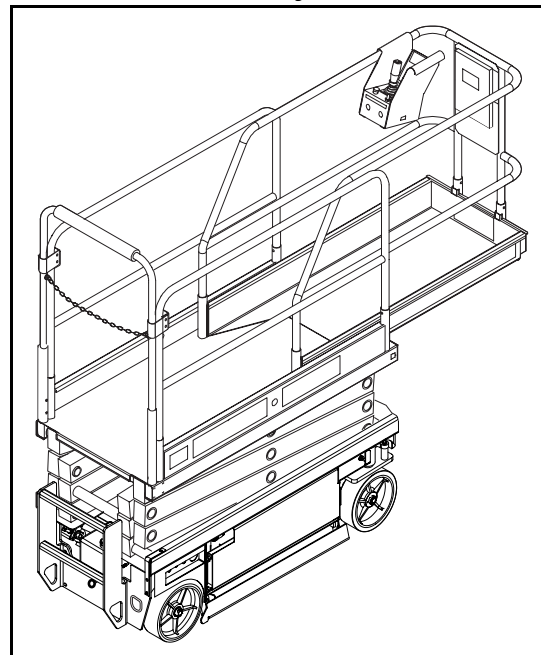
OPERATION

Before operating the machine, ensure that the Pre-Operation Safety Inspection and System Function Inspection has been completed and that any deficiencies have been corrected. **Never operate a damaged or malfunctioning machine.** The operator must be thoroughly trained on this machine.

PLATFORM EXTENSION

1. Mount the platform and properly close and secure the entrance.
2. Depress the foot lever located at the rear of the platform extension. Push the platform extension forward until the pin engages the front stop.
3. To retract the platform extension, depress the foot lever and pull the platform extension toward the rear of the machine until the pin engages the rear stop.

Figure 5: Platform Extension



TRAVEL WITH THE PLATFORM LOWERED

1. Check that the route is clear of surface hazards such as holes, drop-offs, bumps, curbs, or debris.
2. Check that the route is level, and is capable of supporting the wheel loads.
3. Verify that the Chassis Key Switch is turned to DECK and Chassis Emergency Stop Switch is ON (pulled out).
4. Mount the platform and properly close the entrance.
5. Check clearances above, below, and to the sides of platform.
6. Pull the Platform Emergency Stop Switch out to the ON position.
7. Turn the Drive/Lift Switch to DRIVE.
8. Engage the Interlock Switch and move the Control Handle to FORWARD or REVERSE to travel in the desired direction. The speed of the machine will vary depending on how far from center the Control Handle is moved.

STEERING

1. Turn the Drive/Lift Switch to DRIVE.
2. While engaging the Interlock Switch, push the Steering Switch to RIGHT or LEFT to turn the wheels in the desired direction. Observe the tires while maneuvering the machine to ensure proper direction.

NOTE: Steering is not self-centering. Wheels must be returned to the straight ahead position by operating the Steering Switch.

ELEVATING THE PLATFORM

1. Locate a firm, level surface.
2. Turn the Drive/Lift Switch to LIFT.
3. While engaging the Interlock Switch, push the Control Handle forward.
4. If the machine is not level the tilt alarm will sound and the machine will not lift or drive. **If the tilt alarm sounds the platform must be lowered and the machine moved to a firm, level surface before attempting to elevate the platform.**

NOTE: Depression Mechanism Supports will deploy automatically as the platform elevates and will retract after the platform has been lowered completely and driven.

TRAVEL WITH THE PLATFORM ELEVATED

NOTE: The machine will travel at reduced speed when the platform is elevated.

1. Check that the route is clear of surface hazards such as holes, drop-offs, bumps, curbs, or debris.
2. Check that the route is level, and is capable of supporting the wheel loads.
3. Check clearances above, below, and to the sides of platform.
4. Turn the Drive/Lift Switch to DRIVE.
5. Engage the Interlock Switch and move the Control Handle to FORWARD or REVERSE to travel in the desired direction. The speed of the machine will vary depending on how far from center the Control Handle is moved.
6. If the machine is not level the tilt alarm will sound and the machine will not lift or drive. **If the tilt alarm sounds the platform must be lowered and the machine moved to a firm, level surface before attempting to elevate the platform.**

LOWERING THE PLATFORM

1. Turn the Drive/Lift Switch to LIFT.
2. Check around the base of the platform to ensure that no one is in contact with the machine. Engage the Interlock Switch and pull back on the Control Handle to lower the platform.

EMERGENCY LOWERING

⚠ WARNING ⚠

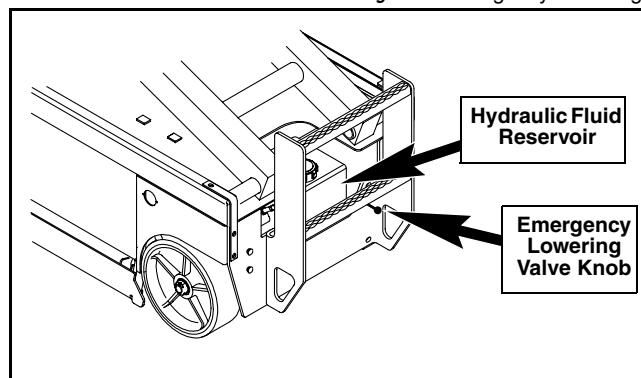
If the platform should fail to lower, NEVER climb down the elevating assembly.

Stand clear of the elevating assembly while operating the Emergency Lowering Valve Knob.

The Emergency Lowering Valve Knob is located beside the ladder at the rear of the machine.

1. Open the Emergency Lowering Valve by pulling and holding the knob.
2. To close, release the knob. The platform will not elevate if the Emergency Lowering Valve is open.

Figure 6: Emergency Lowering

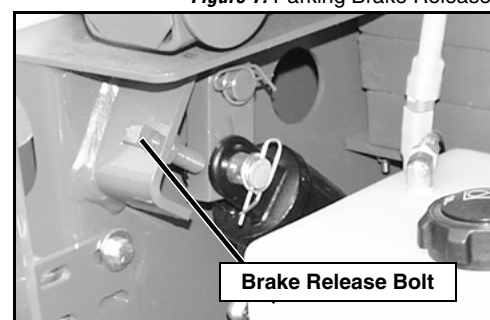


PARKING BRAKE RELEASE

Perform the following procedure only when the machine will not operate under its own power and it is necessary to move the machine, or when winching onto a trailer to transport.

1. To release the brakes, loosen the jam nut and bolt until the brakes disengage the tires (Figure 7). The machine will now roll when pushed or pulled.
2. To re-engage the brakes, tighten the bolt until the brakes have fully engaged the tires. Secure the bolt with the jam nut. Verify that the brakes have fully engaged the rear tires before operating the machine by testing their ability to hold the machine on a 29% (16°) grade.

Figure 7: Parking Brake Release



⚠ WARNING ⚠

Never tow faster than 0,3 m/sec. (1 ft./sec.).

Never operate the machine with the parking brakes released. Serious injury or damage could result.

AFTER USE EACH DAY

1. Ensure that the platform is fully lowered.
2. Park the machine on a firm level surface, preferably under cover, secure against vandals, children and unauthorized operation.
3. Turn the Chassis Key Switch to OFF and remove the key to prevent unauthorized operation.

TRANSPORTING THE MACHINE

BY CRANE

⚠ DANGER ⚠

See specifications for weight of machine and be certain that crane is of adequate capacity to lift the machine.

Secure the straps to Tie Down/Lift Points only.

BY FORKLIFT

⚠ DANGER ⚠

Forklifting is for transport only.

See specifications for weight of machine and be certain that forklift is of adequate capacity to lift the machine.

Both the MX15 and MX19 may be forklifted from the rear end of the machine between the wheels. They may also be forklifted from the side using the forklift pockets shown in Figure 8.

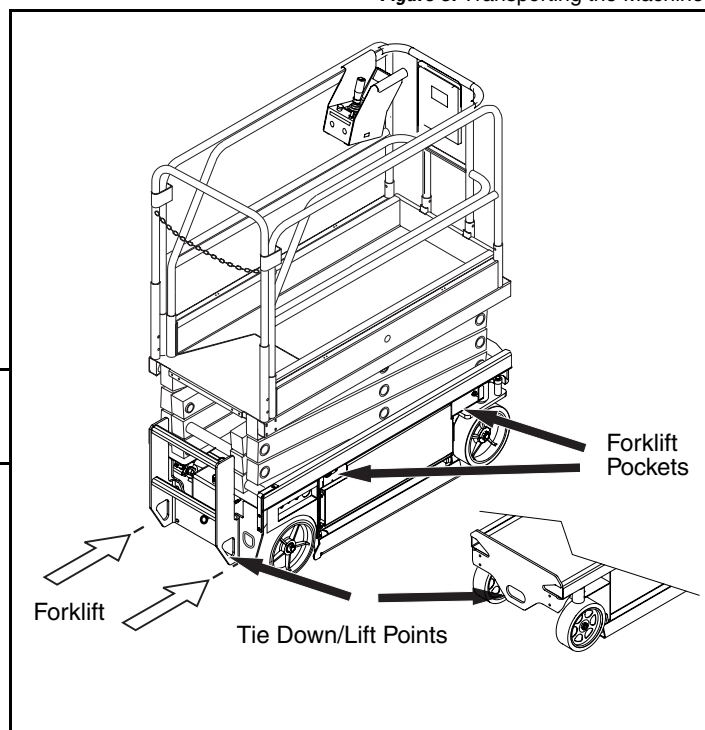
BY TRUCK

Maneuver the machine into transport position and chock the wheels. Secure the machine to the transport vehicle by attaching chains or straps of adequate load capacity to the Tie Down/Lift Points.

CAUTION

Overtightening chains or straps attached to the Tie Down/Lift Points may result in damage to the machine.

Figure 8: Transporting the Machine



MAINTENANCE

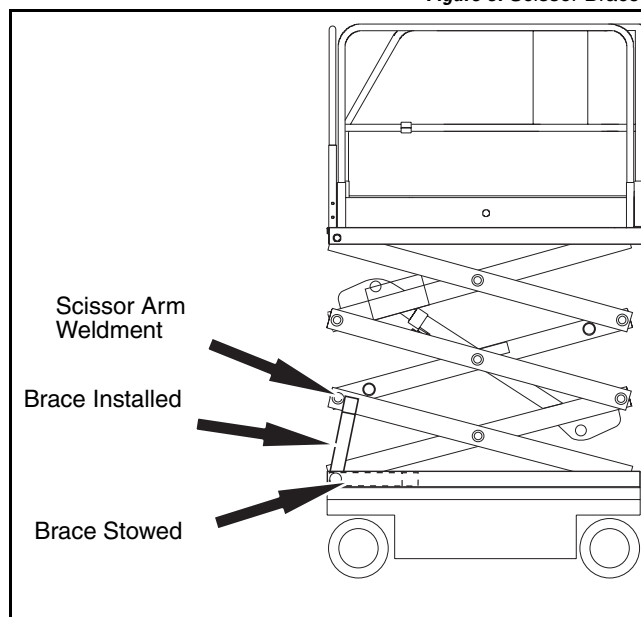
⚠ WARNING ⚠

*Never perform service while the platform is elevated without first blocking the elevating assembly.
DO NOT stand in the elevating assembly area while deploying or storing the brace.*

BLOCKING THE ELEVATING ASSEMBLY

SCISSOR BRACE INSTALLATION

1. Park the machine on a firm, level surface. Completely unload the platform before installing the Scissor Brace.
2. Verify that the Chassis and Platform Emergency Stop Switches are ON by pulling each button out.
3. Turn and hold the Chassis Key Switch to CHASSIS. Push the Chassis Lift/Lower Switch to UP and elevate the platform approximately 2,1 m (7 ft.).
4. Rotate the Scissor Brace to a vertical position.
5. Carefully lower the platform until the end of the Scissor Arm Weldment rests on the Brace.

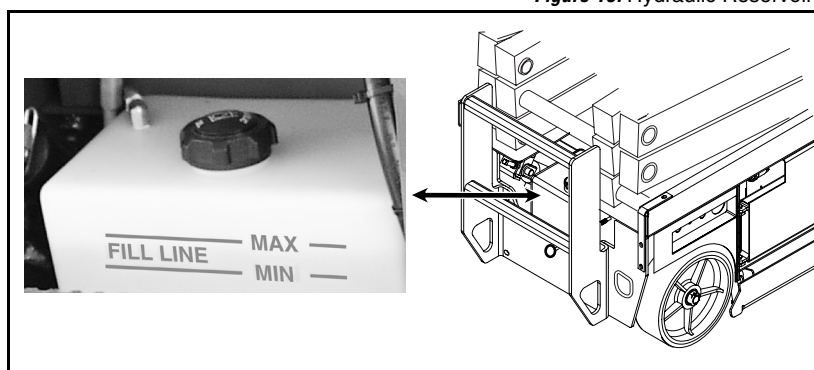


SCISSOR BRACE STORAGE

1. While holding the Brace, slowly raise the platform using the Chassis Controls until the end of the Scissor Arm Weldment clears the Scissor Brace.
2. Rotate the Scissor Brace forward to rest on the Chassis.
3. Push the Chassis Lift/Lower Switch to LOWER and completely lower the platform.

HYDRAULIC FLUID

Check the level of the hydraulic fluid with the platform fully lowered. The hydraulic reservoir is located at the rear of the machine. The fluid level should be visible through the side of the reservoir, and must be between the MIN and MAX lines (see Figure 10). Add hydraulic fluid if necessary.



BATTERY MAINTENANCE

⚠ WARNING ⚠

Hazard of explosive gas mixture. Keep sparks, flame, and smoking material away from batteries.

Always wear safety glasses when working near batteries.

Battery fluid is highly corrosive. Thoroughly rinse away any spilled fluid with clean water.

Always replace batteries with UpRight batteries or manufacturer approved replacements weighing 26,3 kg (58 Lbs.) each.

- Check the battery fluid level daily, especially if the machine is being used in a warm, dry climate.
- If electrolyte level is lower than 10 mm ($\frac{3}{8}$ in.) above the plates add distilled water only. DO NOT use tap water with high mineral content, as it will shorten battery life.
- Keep the terminals and tops of the batteries clean.
- Refer to the Service Manual to extend battery life and for complete service instructions.

BATTERY CHARGING

Charge the batteries at the end of each work shift or sooner if the batteries have been discharged.

⚠ WARNING ⚠

Charge the batteries in a well ventilated area.

Do not charge the batteries when the machine is near a source of sparks or flames.

Permanent damage to the batteries will result if the batteries are not immediately recharged after discharging.

Never leave the battery charger operating for more than two days.

Never disconnect the cables from the batteries when the charger is operating.

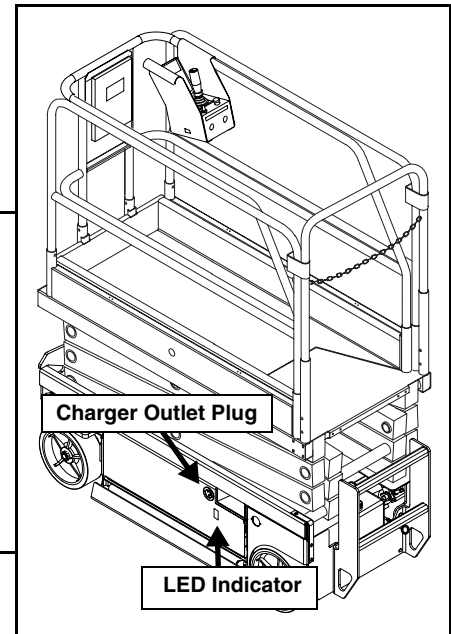
Keep the charger dry.

1. Check the battery fluid level. If the battery fluid level is lower than 10 mm ($\frac{3}{8}$ in.) above the plates add distilled water only.
2. Connect an extension cord (1,5 mm² [12 gauge] minimum conductor diameter; 15 m [50 ft.] maximum length) to the charger plug located through a cutout at the left side of the chassis.
3. The charger turns on automatically after a short delay. There are three LED's to indicate the state of charge cycle.
 - The first LED will blink until the batteries reach 50% state of charge, and then it will stop blinking and stay ON.
 - The second LED will blink until the batteries reach 75% state of charge, and then it will stop blinking and stay ON.
 - The third LED will blink until the batteries reach 100% state of charge, and then it will stop blinking and stay ON.
 - When the batteries are fully charged, all three LED's will stay ON. The battery charger will automatically turn off a short time after the batteries reach full charge.

NOTE: The battery charger circuit must be used with a GFI (Ground Fault Interrupt) outlet.

NOTE: DO NOT operate the machine while the charger is plugged in.

Figure 11: Battery Charger



DAILY INSPECTION AND MAINTENANCE SCHEDULE

The Complete Inspection consists of periodic visual and operational checks, along with periodic minor adjustments that assure proper performance. Daily inspection will prevent abnormal wear and prolong the life of all systems. Perform the inspection and maintenance items daily. Inspection and maintenance shall be performed by personnel who are trained and familiar with mechanical and electrical procedures.

! WARNING !

Before performing preventative maintenance, familiarize yourself with the operation of the machine.

Always block the elevating assembly whenever it is necessary to perform maintenance while the platform is elevated.

The daily preventative maintenance checklist has been designed for machine service and maintenance. Please photocopy the Daily Preventative Maintenance Checklist and use the checklist when inspecting the machine.

DAILY PREVENTATIVE MAINTENANCE CHECKLIST

MAINTENANCE TABLE KEY

Y = Yes/Acceptable

N = No/Not Acceptable

R = Repaired/Acceptable

PREVENTATIVE MAINTENANCE REPORT

Date: _____

Owner: _____

Model No: _____

Serial No: _____

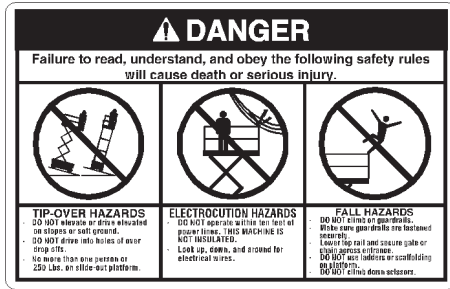
Serviced By: _____

COMPONENT	INSPECTION OR SERVICES	Y	N	R
Battery	Check electrolyte level.			
	Check battery cable condition.			
Chassis	Check hoses for pinch or rubbing points.			
	Check welds for cracks.			
Control Cable	Check the exterior of the cable for pinching, binding or wear.			
Controller	Check switch operation.			
Drive Motors	Check for operation and leaks.			
Elevating Assembly	Inspect for structural cracks.			
Emergency Lowering System	Operate the emergency lowering valve and check for serviceability.			

COMPONENT	INSPECTION OR SERVICES	Y	N	R
Entire Unit	Check for and repair collision damage.			
Hydraulic Fluid	Check fluid level.			
Hydraulic Pump	Check for hose fitting leaks.			
Hydraulic System	Check for leaks.			
Labels	Check for peeling, missing, or unreadable labels & replace.			
Platform Deck and Rails	Check welds for cracks.			
	Check condition of deck.			
Tires	Check for damage.			

LABELS

These labels shall be present and in good condition before operating the machine. Be sure to read, understand and follow these labels when operating the machine.



4 066550-000



17 066556-000



22 005221-000



35 062562-001



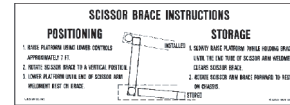
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36 066522-000



11 066559-000



25 063255-001



37 066556-001



12 101251-000



18 MX15 101250-001



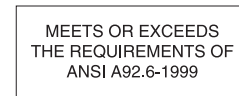
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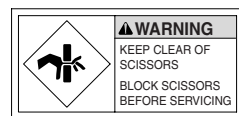
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18 MX19 101250-000



27 061220-002



14 066553-003



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28 MX15 101252-001



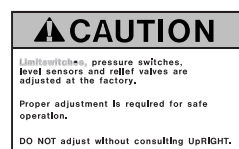
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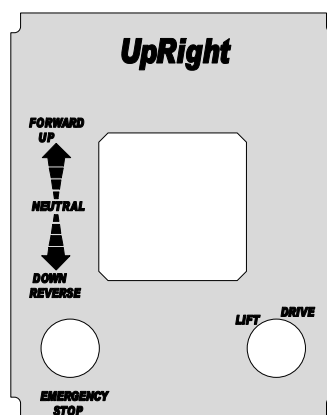
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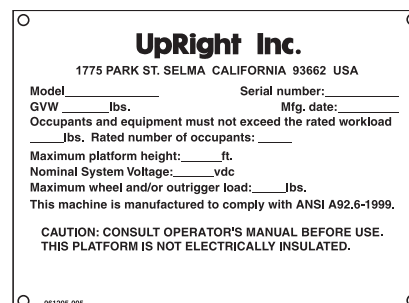
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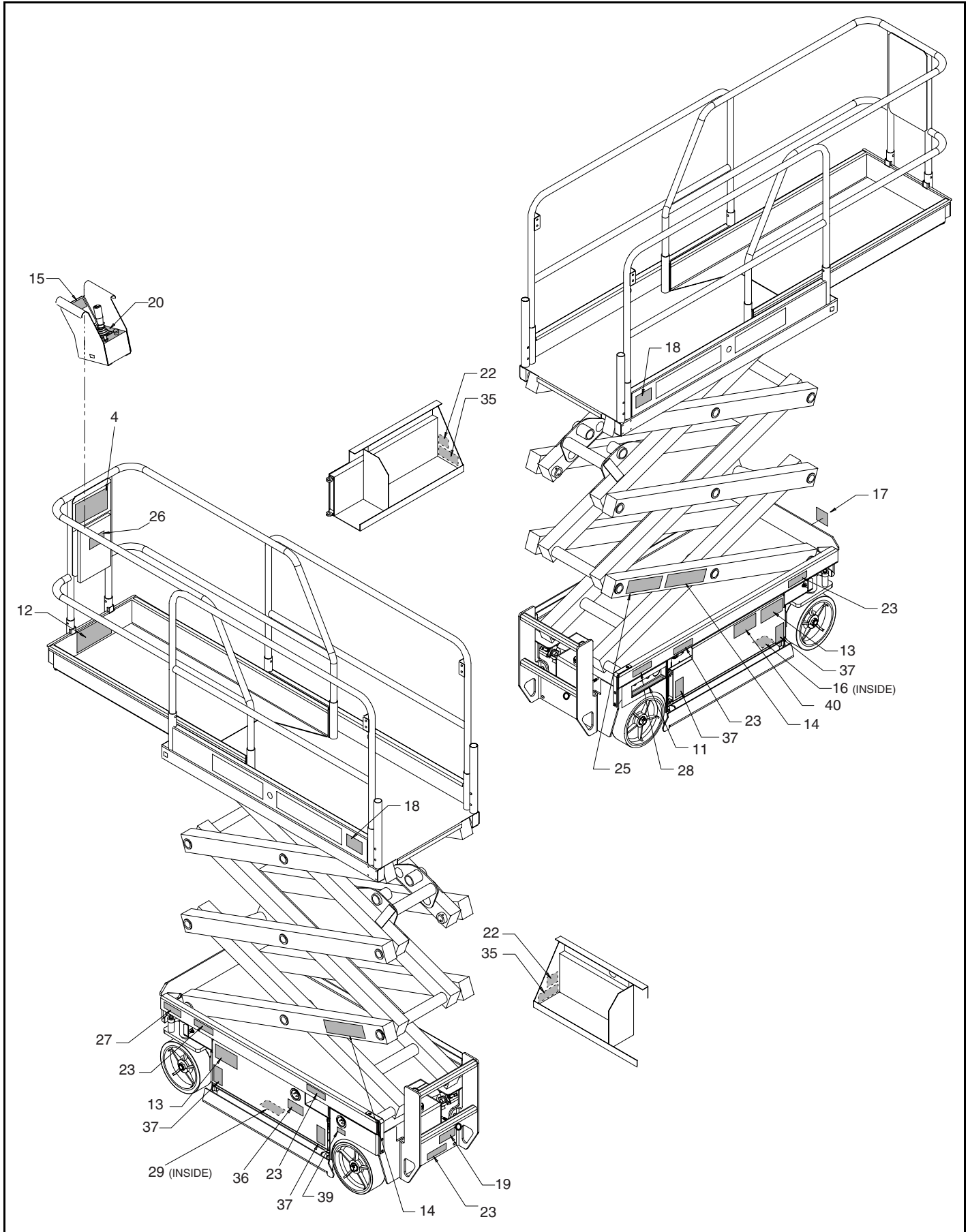


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29 061205-005

Figure 12: Safety Labels Locations



SPECIFICATIONS

ITEM	MX15	MX19
Platform Size (Inside minimum) Standard w/Deck	0,72 m x 2,54 m (28.5 in. x 100 in.)	0,72 m x 2,54 m (28.5 in. x 100 in.)
Maximum Platform Capacity Standard w/Deck Extension	250 kg (550 Lbs.)	227 kg (500 Lbs.)
Maximum Number of Occupants Standard w/Deck Extension on Extension	2 People 1 Person	2 People 1 Person
Height Working Height Maximum Platform Height Maximum Drivable Height	6,4 m (21 ft.) 4,57 m (15 ft.) 4,57 m (15 ft.)	7,62 m (25 ft.) 5,8 m (19 ft.) 5,8 m (19 ft.)
Dimensions Weight Overall Width Overall Height (Lowered) Overall Length (Deck in)	1343 kg (2960 Lbs.) 760 mm (30 in.) 1,89 m (74.5 in.) 1,75 m (68.75 in.)	1465 kg (3230 Lbs.) 760 mm (30 in.) 2,01 m (79.25 in.) 1,75 m (68.75 in.)
Drive Speed Platform Lowered Platform Raised	3,7 km/h (2.3 mph) 1,0 km/h (0.62 mph)	3,7 km/h (2.3 mph) 1,0 km/h (0.62 mph)
Energy Source	24 V battery pack (4-220 A hour, 6 V batteries, min. wt. 26,3 kg [58 Lbs.] each), 4 HP DC electric motor	24 V battery pack (4-220 A hour, 6 V batteries, min. wt. 26,3 kg [58 Lbs.] each), 4 HP DC electric motor
System Voltage	24 V DC	24 V DC
Battery Charger	20 A, 110/220 VAC	20 A, 110/220 VAC
Hydraulic Reservoir Capacity	12,9 L (3.4 US gal.)	12,9 L (3.4 US gal.)
Maximum Hydraulic System Pressure	207 bar (3000 psi)	207 bar (3000 psi)
Hydraulic Fluid Normal above 32° F [0° C] Low Temp. below 32° F [0° C] below 0° F [-17° C]	ISO #46 ISO #32 ISO #15	ISO #46 ISO #32 ISO #15
Lift System	One Single Stage Lift Cylinder	One Single Stage Lift Cylinder
Drive Control	Motor Control	Motor Control
Control System	Control Handle with Interlock Switch, Rotary Drive/Lift Switch, and Red Mushroom Emergency Stop Switch	Control Handle with Interlock Switch, Rotary Drive/Lift Switch, and Red Mushroom Emergency Stop Switch
Drive System	Dual Front Wheel Hydraulic Motors	Dual Front Wheel Hydraulic Motors
Tires	30,5 cm (12 in.) diameter solid rubber, Non-marking	30,5 cm (12 in.) diameter solid rubber, Non-marking
Parking Brake	Dual, Spring Applied, Hydraulic Release	Dual, Spring Applied, Hydraulic Release
Turning Radius (inside)	150 mm (6 in.) Inside	150 mm (6 in.) Inside
Maximum Gradeability	29% (16°)	29% (16°)
Wheel Base	1,23 m (48.5 in.)	1,23 m (48.5 in.)
Guardrails	1,10 m (43 in.)	1,10 m (43 in.)
Toeboard	150 mm (6 in.)	150 mm (6 in.)

*Specifications are subject to change without notice. Hot weather or heavy use may affect performance.

Refer to the Parts Manual and the Service Manual for complete parts and service information.

The MX15/19 meets or exceeds all applicable requirements of OSHA and ANSI A92.6-1999.

UpRight

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