IMPORTANT SAFETY INSTRUCTIONS

Form 4657TE-05, 10-12
Supersedes Form 4657TE-05, 09-12

Operation Instructions for

Scissors Lift Rack

HUNTER Engineering Company

CONTENTS

1. IMPORTANT SAFETY INSTRUCTIONS

1.1 For Your Safety

Read all instructions.

Read and follow all caution and warning labels affixed to your equipment and tools. Misuse of this equipment can cause personal injury and shorten the life of the equipment.

Always use wheel chocks in front of and behind the left rear wheel after positioning a vehicle on the rack.

Use caution when jacking the vehicle.

ALWAYS WEAR OSHA APPROVED SAFETY GLASSES. Eyeglasses that only have impact resistant lenses are NOT safety glasses.

Wear non-slip safety footwear when operating equipment.

Do not wear jewelry or loose clothing when operating equipment.

Wear proper back support when lifting or removing wheels.

To reduce the risk of electrical shock, do not use on wet surfaces or expose to rain.

Verify that the appropriate electrical supply circuit is the same voltage and amperage ratings as marked on the aligner before operating.

To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).

Keep all instructions permanently with the unit.

Keep all decals, labels, and notices clean and visible.

To prevent accidents and/or damage to the aligner, use only Hunter recommended accessories.

Use equipment only as described in this manual.

SAVE THESE INSTRUCTIONS

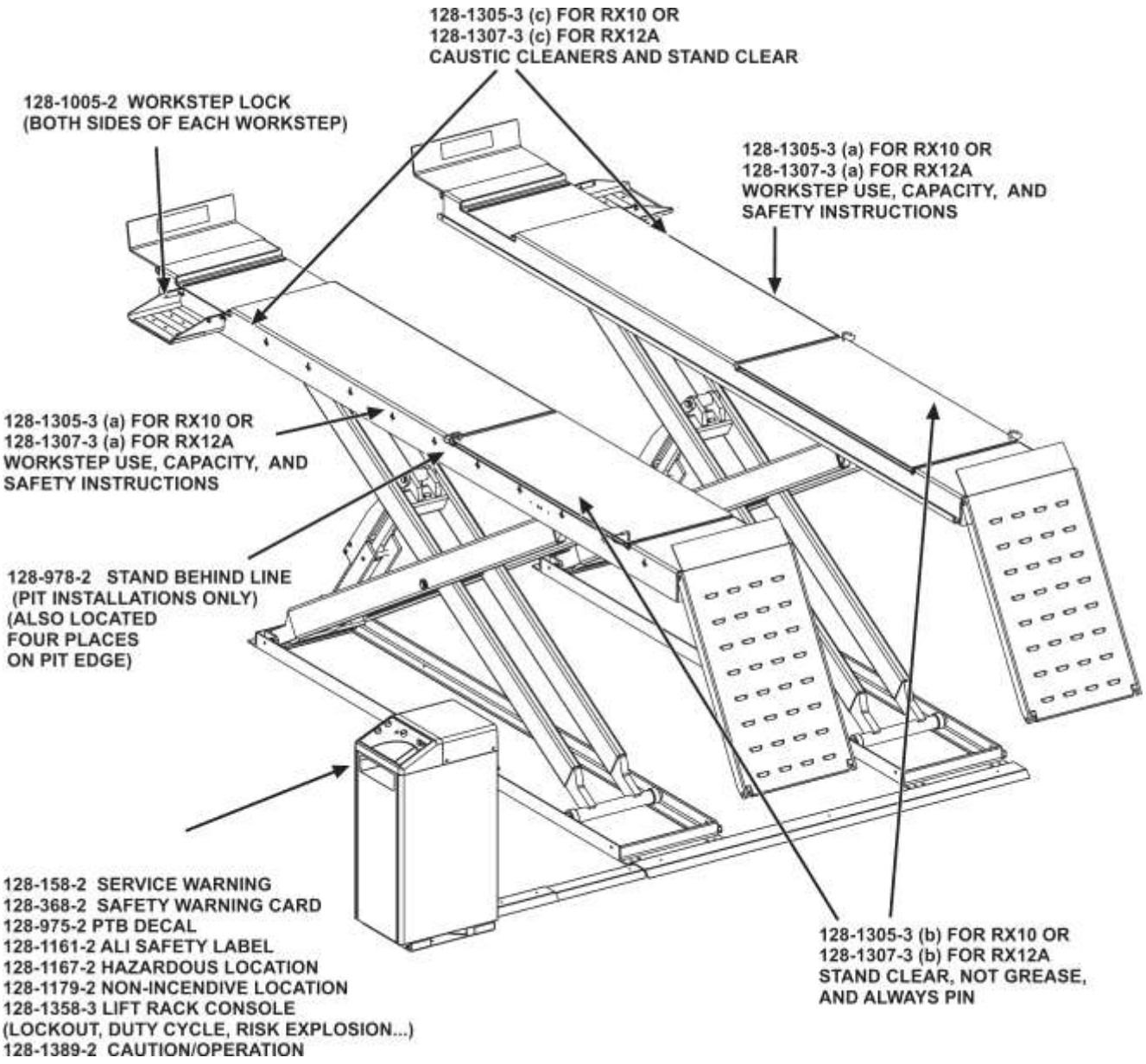
1.2 Warning/Instruction Decal Placement

DANGER, WARNING, CAUTION, SAFETY INSTRUCTIONS, and other decals have been attached to the equipment for your safety.

Read and follow the decal instructions to prevent equipment damage and/or personal injury.

If any decal shown in this manual has been removed, is missing, or cannot be read, contact your local service representative for a replacement decal(s) or call Hunter Engineering Company at 1-800-448-6848. A new warning label kit (20-2480-1) may be ordered free of charge.

Warning / Operation Label Location



Runway Warning/Instruction Decals

Most of the runway warning/instruction decals are contained on one sheet of decals that has the groups of decals located near the turnplates, at the center and on the slip plates.

Composite 128-1307-3 has grouped decals for all RX10 (RX45) runways.

Composite 128-1305-3 has grouped decals for all RX12A (RX54) runways.

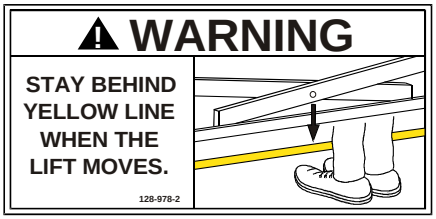
Decals near Turmplate Pockets

Decals near Center of Runway

Decals on Slip Plates (128-1307-3 with RX10 capacity shown)

Additional runway warning/instruction decals include work step decals and pit decals.

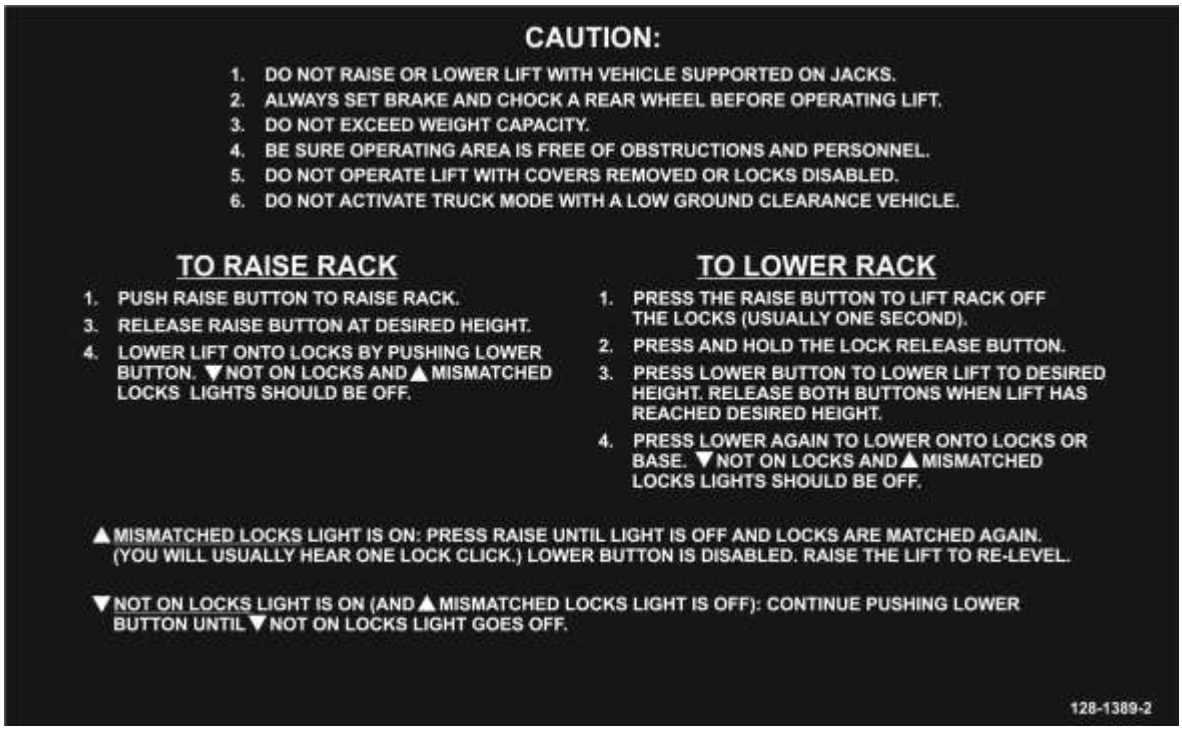
Decal on Work Step 128-1005-2



Decals on Pit Racks 128-978-2

Console Warning/Instruction Decals

The following warning/instruction decals are located on the lift control console.



128-1389-2

128-1358-3

CAUTION - TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER - SERVICEABLY PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

128-158-2

SAFETY INSTRUCTIONS

If attachments, accessories or configuration modifying components that are located in the load path, affect operation of the lift, affect the lift electrical listing or affect intended vehicle accommodation are used on this lift and, if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories or configuration modifying components.

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128-1161-2

CE 18.08 02.01

Eichung nur für Druckanzeige gültig!
Druckart: *Pe*
maximaler Anschlussdruck: 6 bar

128-975-2

128-975-2

Non-Incendive Circuits

Provides non-incendive circuit extensions for use in Class 1, Division 2, Group D, T4 or Class 1, Zone 2, Group IIA Hazardous (Classified) Locations when connected per Panel Control Drawing No. 220-45. 128-1179-2

128-1179-2

Intrinsically Safe Circuits

Provides intrinsically safe circuit extensions for use in Class 1, Groups D, Hazardous (Classified) Locations when connected per Panel Control Drawing No. 220-44. 128-1167-2

128-1167-2

SAFETY WARNING LABLES FOR HINGED FRAME ENGAGING LIFTS

Lift Owner/User Responsibilities:

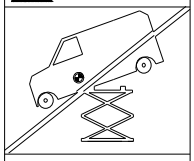
A. This Safety Warning placard SHALL be displayed in a conspicuous location in the lift area.

B. Use one of the mounting arrangements illustrated on back of this placard.

C. These Safety Warning lables supplement other documentatios supplied with the lift.

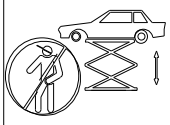
D. Be certain all lift operators read and understand these lables, operating instructions and other safety related information supplied with the lift.

WARNING



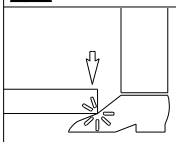
Position vehicle with center of gravity midway between adapters.

WARNING



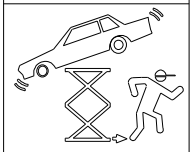
Remain clear of lift when raising or lowering vehicle,

WARNING



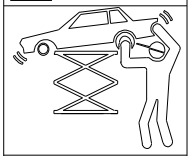
Keep feet clear of lift while lowering.

WARNING



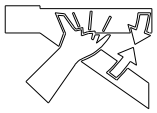
Clear area if vehicle is in danger of falling.

WARNING



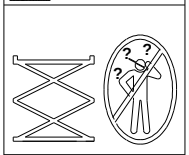
Avoid excessive rocking of vehicle while on lift.

WARNING



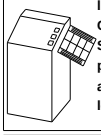
Keep clear of pinch points when lift is moving.

CAUTION



Lift to be used by trained operator only.

Power Unit: Secure placard near lift controls.

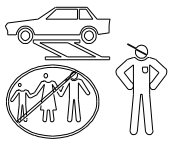


lift Control Console: Secure placard in an accessible location.

The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

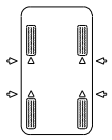
Funding for the development and validation of these lables was provided by the Automotive Lift Insistute, PO Box 33116 Indialantic, FL 32093-3116.

CAUTION



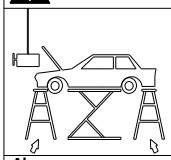
Authorized personnel only in lift area.

CAUTION



Use vehicle manufacture's lift points.

CAUTION

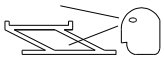


Always use safety stands when removing or installing heavy components.

SAFETY INSTRUCTIONS

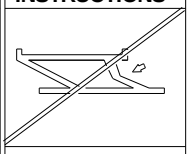
Read operating and savety manuals before using lift.

SAFETY INSTRUCTIONS



Proper maintenance and inspection is necessary for safe operation.

SAFETY INSTRUCTIONS



Do not operate a damaged lift.

128-368-2

128-368-2

1.2 Control Panel

NOTE	The “locked” and “free” slip plate controls located at the upper right corner are only present on lifts with the optional PowerSlide® feature.

NOTE	The Inflation Station controls located at the lower right corner are only present on lifts with the optional Inflation Station feature.

For RX10, RX10L and RX12A Series Lift Racks, intrinsically safe circuits provide intrinsically safe circuit extensions for use in Class 1, Groups D, hazardous (classified) locations when connected per Panel Control Drawing No. 220-44. *Refer to Panel Control Drawing No. 220-44 on page 30.*

1.3 Emergency Stop (Model RX45, RX45L and RX54 Only)

An emergency stop switch is located at the lower, right-hand corner of the console of the RX45, RX45L and RX54 Scissors Lift Rack.

Turning the emergency stop switch to the “OFF” position disconnects the power from the console.

Returning the emergency stop switch to the “ON” position restores power to console.

2. SPECIFICATIONS

2.1 Lift Capabilities

RX10 RX10L, RX12A, RX45 RX45L and RX54 lift specification listed on following pages.

All RX series lifts are intended for indoor use only. Use outdoors or where significantly exposed to the elements will void warranty and may cause premature component failure which may result in a hazardous condition.

RX10 and RX10L Series Lifts

RX10JT, RX10T-IS, RX10T-PS, RX10JFT, RX10FT-IS, RX10FT-PS, RX10LJT, RX10LT-IS, RX10LT-PS, RX10LJFT, RX10LFT-IS AND RX10LFT-PS

Maximum Lifting Weight:	4535 kg (10,000 pounds)
Operating Hydraulic Pressure:	3550 psi (max. @ full capacity)
Maximum Lifting Height:	1829 mm (72 inches)
Alignment Height:	All Lock Positions
Lifting Speed:	55 seconds
HI-Speed Lifting Speed	32 to 60 seconds (depending on load)
Lowering Speed:	50 seconds
HI-Speed Lowering Speed	29 seconds
Tread Width:	
Minimum Inside Tires:	1016 mm (40 inches)
Maximum Outside Tires:	2235 mm (88 inches)
Maximum Wheel Base:	
Surface-Mount RX10 Lifts: RX10JT, RX10T-IS AND RX10T-PS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4216 mm (166 inches)
General Service:	4343 mm (171 inches) (or 4639 mm (182 5/8 inches) with optional extended wheel stops)
Flush-Mount RX10 Lifts: RX10JFT, RX10FT-IS AND RX10FT-PS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4115 mm (162 inches)
General Service:	4241 mm (167 inches)
Surface-Mount RX10L Lifts: RX10LJT, RX10LT-IS AND RX10LT-PS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4547 mm (179 inches)
General Service:	4673 mm (184 inches) (or 4969 mm (195 5/8 inches) with optional extended wheel stops)
Flush-Mount RX10L Lifts: RX10LJFT, RX10LFT-IS AND RX10LFT-PS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4445 mm (175 inches)
General Service:	4572 mm (180 inches)

RX12A Series Lifts

RX12AJT, RX12AT-PS, RX12AT-IS, RX12AJFT, RX12AFT-PS, RX12AFT-IS

Maximum Lifting Weight:	5443 kg (12,000 pounds)
Operating Hydraulic Pressure:	3550 psi (max. @ full capacity)
Maximum Lifting Height:	1803 mm (71 inches)
Alignment Height:	All Lock Positions
Lifting Speed:	55 seconds
HI-Speed Lifting Speed	32 to 60 seconds (depending on load)
Lowering Speed:	50 seconds
HI-Speed Lowering Speed	29 seconds
Tread Width:	
Minimum Inside Tires:	1016 mm (40 inches)
Maximum Outside Tires:	22235 mm (88 inches)
Maximum Wheel Base:	
Surface-Mount RX12A Lifts: RX12AJT, RX12AT-IS AND RX12AT-PS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4547 mm (179 inches)
General Service:	4673 mm (184 inches) (or 4969 mm (195 5/8 inches) with optional extended wheel stops)
Flush-Mount RX12A Lifts: RX12AJFT, RX12AFT-IS AND RX12AFT-PS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4445 mm (175 inches)
General Service:	4572 mm (180 inches)

RX45 and RX45L Series Lifts (Not Available in USA or Canada)

RX45, RX45-IS, RX45F, RX45F-IS, RX45L, RX45L-IS, RX45LF AND RX45LF-IS
(Listed models do NOT include voltage suffix, such as -2-1-6E or -4-3-UE)

Maximum Lifting Weight:	4535 kg. (10,000 lbs)
Operating Hydraulic Pressure:	3550 psi (max. @ full capacity)
Maximum Lifting Height:	1829 mm (72 inches)
Alignment Height:	All Lock Positions
Lifting Speed:	55 seconds
Lowering Speed:	50 seconds
Tread Width:	
Minimum Inside Tires:	1016 mm (40 inches)
Maximum Outside Tires:	2235 mm (88 inches)
Maximum Wheel Base:	
Surface-Mount RX45 Lifts: RX45 AND RX45-IS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4216 mm (166 inches)
General Service:	4343 mm (171 inches) (or 4639 mm (182 5/8 inches) with optional extended wheel stops)
Flush-Mount RX45 Lifts: RX45F AND RX45F-IS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4115 mm (162 inches)
General Service:	4241 mm (167 inches)
Surface-Mount RX45L Lifts: RX45L AND RX45L-IS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4547 mm (179 inches)
General Service:	4673 mm (184 inches) (or 4969 mm (195 5/8 inches) with optional extended wheel stops)
Flush-Mount RX45L Lifts: RX45LF AND RX45LF-IS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4445 mm (175 inches)
General Service:	4572 mm (180 inches)

RX54 Series Lifts (Not Available in USA or Canada)

RX54, RX54IS, RX54F AND RX54FIS
(Listed models do NOT include voltage suffix, such as -215E, -216E or -435E)

Maximum Lifting Weight:	5400 kg (12,000 pounds)
Operating Hydraulic Pressure:	3550 psi (max. @ full capacity) 24, 476 kpa (max. @ full capacity)
Maximum Lifting Height:	1803 mm (71 inches)
Alignment Height:	All Lock Positions
Lifting Speed:	55 seconds
HI-Speed Lifting Speed	32 to 60 seconds (depending on load)
Lowering Speed:	50 seconds
HI-Speed Lowering Speed	29 seconds
Tread Width:	
Minimum Inside Tires:	1016 mm (40 inches)
Maximum Outside Tires:	2235 mm (88 inches)
Maximum Wheel Base:	
Surface-Mount RX54, RX54IS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4547 mm (179 inches)
General Service:	4673 mm (184 inches) (or 4969 mm (195 5/8 inches) with optional extended wheel stops)
Flush-Mount RXF54, RX54FIS	
4–Wheel Alignment:	4013 mm (158 inches)
2–Wheel Alignment:	4445 mm (175 inches)
General Service:	4572 mm (180 inches)

3. GETTING STARTED

3.1 Operator Responsibilities

Read and thoroughly familiarize yourself with these instructions before operating the lift.

The operator shall operate the automotive lift only after being properly instructed or trained as outlined in Section 3.3.

The operator shall use all applicable safety features provided on the automotive lift, and operate the lift in accordance with the instructions furnished with the lift.

The operator of the lift shall be responsible for maintaining the cleanliness and orderliness of the lift and its surroundings so the lift may be safely operated in accordance with the instructional and safety materials furnished with the lift.

The lift owner or employer shall take all appropriate steps to follow the recommended inspection procedures, but in no event shall the lift operator fail to inspect or take notice of the procedures in the maintenance tables in Section 5. All procedures shall be completed within the time frame noted in the table.

3.2 Operator Qualifications

To avoid personal injury, only qualified personnel with a clear understanding of lift operations should be allowed to operate and perform maintenance on this equipment.

The operator must be capable of reading and understanding all of the provided instructions and the Automotive Lift Institute publication, “Lifting It Right,” “Safety Tips,” and “Warning Labels.”

If inspection of the equipment finds components requiring replacement, contact your factory authorized Service Representative.

3.3 Operator Training

The owner or employer shall ensure that operators of automotive lifts are instructed in the safe use of the lift using all of the provided instructions and the Automotive Lift Institute publication: “Lifting It Right,” “Safety Tips,” and “Warning Label.”

The owner or employer shall display these materials in a conspicuous location in the lift area.

The owner or employer shall appropriately document operating training. A Maintenance/Training documentation form has been provided in the Appendix.

4. DETAILED OPERATION INFORMATION

4.1 Preparation

Lift Operation Safety Rules

Read and familiarize yourself with these instructions before operating lift.

Do not operate an improperly functioning lift.

Do not attempt to use a lift for any purposes other than lifting vehicles.

Properly chock vehicle before operating lift.

Make sure lift is clear of personnel and obstructions before operating.

Do not operate a lift with anyone on or under the lift structure.

Watch lift and vehicle when operating.

Do not operate a lift with anyone in the vehicle.

Always set lift on safety lock latches before working on the vehicle.

Do not operate the vehicle while it is raised on the lift.

Do not operate a lift if the vehicle to be lifted is supported on jacks or any other auxiliary devices.

Do not install or use any unauthorized lifting devices or accessories.

Perform regular maintenance in accordance with instructions in Section Five.

NOTE:	It is advisable to use a second person as a “spotter” to give visual assistance to the driver when approaching and driving onto and off the runways.

⚠ **CAUTION:**	For safety, proper chocking of vehicle wheels is necessary to prevent the vehicle from rolling while positioned on elevated runways.

4.2 Chocking the Wheels

Adjust the turn plates (with lock pins installed) to match the tread width of the vehicle.

Drive the vehicle onto the rack, place the transmission in PARK, and SET the emergency brake.

Place a wheel chock, 22-442-2, at the front and rear of the left rear wheel.

LEFT REAR WHEEL SHOWN

Leave the wheel chocks in place while elevating the lift, performing service operations on the vehicle, and while lowering the lift.

After lowering the lift, remove the wheel chocks from the front and rear of the tire before moving the vehicle.

4.3 Lift Operation

Raising the Lift

Check the lift and immediate area for obstructions and remove any that are found.

Verify that the turnplates and runway slip plates are locked in place.

> ⚠ **WARNING:** **Do NOT operate lift with jacks in use. Serious injury may result if the lift is raised or lowered with a vehicle supported by jacks.**

Verify “POWER” light is illuminated, indicating electrical power is supplied to console and the power switch located on the back of the console is in the “ON” position.

Depress and hold the “RAISE” button. The pump will begin to operate, raising the lift.

> ⚠ **CAUTION:** Listen for the sound of the mechanical locks passing over their detents. If the sound is not heard, release the “RAISE” button and refer to the troubleshooting section of this manual.

Release the “RAISE” button when the lift reaches the desired height. The pump will shut off and the lift will stop.

Press and hold the “LOWER” button until the lift stops lowering, mechanical locks engage and the “NOT ON LOCKS” light is no longer illuminated.

NOTE:	When “MISMATCHED LOCKS” message is illuminated, the “LOWER” button is disabled.

If “MISMATCHED LOCKS” message is illuminated, raise the lift to re-level and correct mismatched lock condition.

Press “RAISE” button until “MISMATCHED LOCKS” message is no longer illuminated (usually hear one lock click) and locks are matched again.

Again lower lift to engage mechanical locks.

⚠ **CAUTION:**	Ensure mechanical locks are fully engaged before proceeding to service the vehicle.

Lowering the Lift

Remove all obstacles from under the rack and runways.

Be certain the vehicle is resting firmly on the runways with chocks both in front of and behind the left rear wheel.

⚠ **WARNING:**	**Do NOT operate lift with jacks in use. Serious injury may result if the lift is raised or lowered with a vehicle supported by jacks.**

⚠ **CAUTION:**	Ensure the jacks are in the stored position, before completely lowering the lift.

Verify that the turnplates and runway slip plates are locked in place.

Depress and hold the “RAISE” button until lift rises off locks (approx. 1 inch (25 mm)).

⚠ **CAUTION:**	Ensure the optional leveling legs, if so equipped, are pivoted into the horizontal storage position.

Depress and hold the “LOCK RELEASE” button to disengage the locks.

While continuing to hold the “LOCK RELEASE” button, depress the “LOWER” button until the lift reaches the desired height.

Release both buttons when the lift reaches the desired height.

Depress and hold the “LOWER” button until the mechanical locks engage and the “NOT ON LOCKS” message goes away.

If “MISMATCHED LOCKS” message appears, raise the lift to re-level and correct mismatched lock condition.

Press “RAISE” button until "MISMATCHED LOCKS” message goes away (usually hear one lock click) and locks are matched again.

Again lower lift to engage mechanical locks.

NOTE:	On lifts with PowerSlide, the slip plates automatically lock as the lift is lowered to the floor.

If the lift is being lowered completely, ensure the lift rack is resting fully on the floor before removing the wheel chocks.

Remove all wheel chocks.

Before removing vehicle from lowered lift, verify that the turnplates and runway slip plates are locked in place. Use lock pins if optional PowerSlide feature is not present.

Carefully drive the vehicle off the runways.

Unlock and Lock Slip Plates with PowerSlide® Slip Plates (Optional Feature)

Keypad controls for the PowerSlide® slip plates are located on the upper, right side of the control panel.

With the lift at alignment height, press the image of the free slip plate or the locked slip plate to control the status of slip plates.

Status of slip plate is indicated by the glowing green LED located next to the image of the free slip plate or the locked slip plate.

NOTE:	Slip plates will automatically lock as the lift is lowered to the floor. Slip plates will also automatically lock if the console loses electrical power.

Inflation Station (Optional Feature)

Keypad controls for the Inflation Station system are located in the lower, right section of the control panel.

Tire Pressure Adjustment

NOTE:	Inflation station provides pressure adjustment for inflated tires. Initial tire pressure must be at least 8 PSI (0.6 bar).

Connect the air line(s) to the vehicle.

Use the adjustment control arrows on either side of the pressure displays to set the desired tire pressure for each axle.

Each tire has a LED indicator to provide status information:

RED – Air line disconnected during adjustment.
YELLOW – Tire pressure currently adjusting.
GREEN – Tire pressure is adjusted correctly.

After each status indicator has turned green, the air lines may be removed from the vehicle.

The “Stop Fill” button may be pressed at any time to immediately stop tire pressure adjustments.

4.4 Using the Workstep

NOTE:	Worksteps are not provided for pit installations. If worksteps are used in a pit installation, each workstep must be removed from the rack before lowering the rack into pit.

The lift is supplied with portable worksteps that fits into the side of the rack through specially designed cutouts.

When using a workstep, always ensure the workstep is fully engaged and locked into the cutout in the side of the runway.

Always use two hands to install the workstep as follows:

Align the workstep hanger brackets with the cutouts in side of lift rack.

Push the workstep forward and down until the locks “snap” into place.

Note the photos below:

Correct Installation, Fully Inserted - The workstep hanger brackets have been fully inserted through the cross-cutout and are locked in place.

Improper Installation, Partially Inserted - The workstep is only partially through the cutouts. The yellow decal indicates the workstep is not locked onto the side of the runway. In this unsafe condition, the step can easily be pulled out of the runway. Push step forward and down until locked.

⚠**CAUTION:**	Do not use a workstep that is improperly installed. If the yellow decal indicates the workstep is not locked, the step can pull out. Resulting injuries from falling are possible.

Check the stability of the workstep by pushing down on the stepping surface before standing on it.

When using the workstep, always use a safe, sturdy, OSHA-approved two-rung stepladder, as intermediate steps to mount the workstep.

⚠**CAUTION:**	If using more than one portable workstep on one side of the lift do not attempt to step across or jump from one step to another. Serious injury could result from improper usage of the worksteps.

To remove workstep, simultaneously pull back tabs to disengage locks.

4.5 Auxiliary Jacks

Refer to jack operation instructions if your lift is so equipped.

> ⚠ **CAUTION:** The jacks **<u>can not</u>** be located closer than 60 inches of each other. Damage to lift, jack or vehicle shifting may occur.

5. REGULAR MAINTENANCE

5.1 Maintenance Schedule

NOTE:	For lockout / tagout instructions, refer to ANSI Z244.1.

Maintenance is to be performed by shop employee or trained lift service personnel.

Worn, damaged or broken parts need replaced with parts approved by the original equipment manufacturer or with parts meeting original manufacturer specifications.

MAINTENANCE SCHEDULE	PERFORM THE FOLLOWING MAINTENANCE
DAILY	Check the mechanical lock mechanism in each runway. Clean any debris from roller wheel tracks located at rear of base frames. Clean any debris from the locks. **Keep** lock area clean and free of debris at all times. Check the hydraulic cylinders, hoses, and fittings for leaks. Leaks **MUST** be corrected immediately. Check condition of hoses. Worn or frayed hoses **MUST** be replaced immediately. Check the fluid level in the tank with the lift lowered completely. When adding hydraulic fluid (Dexron lll), the lift **MUST** be lowered completely. Check and lubricate rear ramp pivots with SAE 30 oil. Check base frame anchor bolts for tightness.
WEEKLY	Check the turn plates and rear slip plates for smooth and easy operation. Clean by blowing out with compressed air. Disassembly is NOT required. **CAUTION: Always wear eye protection when using compressed air.**
MONTHLY	Clean and lubricate the tracks of the rub blocks. Rub blocks are located at the base and under the runways. Wipe clean and apply NLGI grade 2 bearing grease to running surfaces and side surfaces of tracks. Do **NOT** lubricate turn plates or slip plates.
EVERY TWO YEARS	Change hydraulic fluid. Use 13.25 liters (3-1/2 gallons) of Dexron lll transmission fluid. During each fluid change, replace the filter located on suction line, clean any metal particles on the magnet located on return line, and remove any sediment from bottom of reservoir.

6. TROUBLESHOOTING

6.1 Troubleshooting Chart

PROBLEM	POSSIBLE CAUSE	SOLUTION
Lift does not operate (LED is not flashing).	"POWER" switch in OFF position.	Rotate switch to the ON position.
	Circuit breaker or fuse blown in shop power panel.	Locate shop power panel and restore power.
		If overload repeats due to lift operation, contact factory service representative.
	Self-test failure.	Contact factory service representative.
	Electrical malfunction in control console.	Contact factory service representative.
	Hydraulic system malfunction.	Contact factory service representative.
"RAISE" button depressed, motor runs but lift will not rise to full height.	Low hydraulic fluid level in reservoir.	Lower lift. Turn OFF shop power. Check hydraulic fluid level and fill. Determine reason for low fluid level.
	Overhead obstruction to vehicle.	Lower lift and remove obstruction.
	Voltage supply is low.	Contact factory service representative.
	Hydraulic system malfunction.	Contact factory service representative.
"RAISE" button depressed, motor runs but lift does not move.	Vehicle is beyond capacity: 10,000 lb on RX10/RX10L series 12,000 lb on RX12A series 4,535 kg on RX45/RX45L series 5,443 kg on RX54 series	Do not attempt to lift vehicles in excess of lift capacity.
	Electrical/Hydraulic controls malfunction.	Contact factory service representative.
Runways continue to rise after "RAISE" button is released.	Electrical control malfunction.	Turn the "POWER" switch OFF. Turn OFF shop power. Contact factory service representative.
"RAISE" button depressed, but no sound of mechanical locks passing over detents.	Lock mechanism binding.	Clean and lubricate lock mechanism pivot points. If condition remains, contact factory service representative.
Safety ratchet not fully engaged.	Misalignment of ratchets.	Contact factory service representative.

Troubleshooting (continued)

PROBLEM	POSSIBLE CAUSE	SOLUTION
"LOWER" button depressed, lift does not move.	Mechanical locks engaged.	Raise the lift off the locks. Press and hold the "LOCK RELEASE" and "LOWER" buttons to lower the lift.
	When "MISMATCHED LOCKS" message is present, "LOWER" button is disabled.	Raise lift until "MISMATCHED LOCKS" message is no longer illuminated
	Hydraulic system malfunction.	Contact factory service representative.
Lift will not raise or lower. LED flashes twice (Error code 2), pauses and repeats 5 times.	The Lift has exceeded maximum allowed out-of-level limit for normal operation.	Let the error code clear (The error code will clear after 6 flash cycles). Depress the "RAISE" or "LOWER" button to allow the lift to try to correct the out-of-level condition.
Lift will not raise or lower. LED flashes three times (Error code 3), pauses and repeats.	The lift did not correct the out-of-level condition after reporting an error code 2 above.	Turn "POWER" switch OFF and back ON. Let error code 2 clear, then lower the lift onto the same locks or the floor to regain level condition.
Lift will not raise or lower. LED flashes four times (Error code 4), pauses and repeats.	The Lift has exceeded maximum allowed out-of-level limit for corrective operation (4 inches out of level).	Lift controls are unresponsive. Contact factory service representative.
Lift will not raise or lower. LED flashes five times (Error code 5), pauses; repeats.	Sensor calibration error or lost sensor signal.	Contact factory service representative.
Lift will not raise or lower. LED flashes six times (Error code 6), pauses and repeats.	Control board is not properly calibrated.	Contact factory service representative.
"LOWER" button depressed, lift lowers slightly, then stops.	Locks not completely disengaged.	Raise the lift slightly then press the "LOCK RELEASE" button and the "LOWER" button simultaneously.
	Velocity fuse tripped.	Contact factory service representative.
	Electrical/Hydraulic controls malfunction.	Contact factory service representative.
Lift stops operating.	Two buttons pressed simultaneously.	Turn "POWER" switch OFF and back ON.
	Button pressed at power up.	Turn "POWER" switch OFF and back ON.
	Exceeded expected operational time.	Do not attempt to continually operate pump with lift in fully elevated position. Do not attempt to lift vehicles in excess of lift capacity

APPENDIX

Maintenance/Training Documentation

A thorough record of each maintenance/training procedure must be prepared by the owner/employer. Use the following documentation sheet.

> NOTE: Make several copies of this documentation sheet before beginning entries are made.

Type of Maintenance/ Training	Date Performed	Performed By: (Initials)	Type of Maintenance/ Training	Date Performed	Performed By: (Initials)

Panel Control Drawing No. 220-44