

# RXK SCISSOR LIFTS

*Alignment Lift Racks for Passenger Vehicles*

## OPERATIONS MANUAL



Form: RM07446-00  
12-25  
Supersedes 09-24



Operation Manual



Standard Operation Video



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# 1. For Your Safety



## CALIFORNIA WARNING

This product may contain chemicals known to the State of California to cause cancer and reproductive harm.  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

- 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.
- 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.
- Keep all decals, labels, and notices clean and visible.
- To prevent accidents and/or damage to the aligner, use only Hunter recommended accessories.

Operation Manual contact:

## 1.1. Corporate Information

Hunter Engineering Company

Addr:	11250 Hunter Drive, Bridgeton, MO 63044 USA
Ph:	314-731-3020
Web:	<a href="http://www.hunter.com">www.hunter.com</a>

## 1.2. Safety Labels

**WARNING, SAFETY INSTRUCTIONS**, and other decals have been attached to the equipment for your information and your safety. Please read and follow these 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,

## 1.3. Lift Rack Warning / Instruction Labels

A new warning label kit (20-2480-1) may be ordered free of charge.

See Image [Decal Locations \[23\]](#)

## 1.4. Turnplate Warnings

See Image [Turnplate Warnings \[27\]](#)

## 1.5. Jack Decals

See images [Jack Decals \[29\]](#)



### Rack 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 RX10K runways.
- Composite 128-1305-3 has grouped decals for all RX12K runways.
- Composite 128-1725-3 has grouped decals for all RX14KL runways.
- Composite 128-1359-3 has grouped decals for all RX16KLF runways.

Decals near turnplate pockets.

See Image [Turnplate Pocket Label \[23\]](#)

Decals near Center of Runway (128-1307-3 with RX10K capacity shown)

See Images [Runway Decals \[24\]](#)

## 1.6. Jack Warning Decal Location

Replacement decals are available free of charge by calling 1-800-448-6848.

- For 9,000 lbs. jack (133-84-1), order decal kit 128-1435-3
- For 6,000 lbs. jack (133-85-1), order decal kit 128-1454-3

See image [Jack Decal Location \[27\]](#)

## 1.7. Emergency Stop - Export Models RX45, RX55, RX63 and RX72

An emergency stop switch is located on the back of the console of RX45, RX55, RX63 and RX72 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.

## 1.8. Additional Safety Information

Equipment Description: The product is lift rack intend for automotive vehicles to been driven on to the rack and lifted up to a desired height so the underside of the vehicle can be accessed for service or alignments.

Intended Use: The intended use is in the servicing and alignment of automotive vehicles.

The transportation, assembly, servicing and/or removal of equipment should only be done by a factor trained representative or distributor.

## 1.9. End User License Agreement

Use of equipment and it's operating software is acknowledgment of agreement to the terms of the End User Licensing Agreement ("EULA"). The entire [EULA](#) can be found by scanning the QR Code.



## 2. Lift Specification

### 2.1. Lift Specification(s) for USA and Canada

RX16K, RX14K, RX12K, RX10K and RX10KL lift specification can be found at the URL below or by scanning the QR code. →

[hunter.com/alignment-racks/scissor-lifts/?#docs](https://hunter.com/alignment-racks/scissor-lifts/?#docs)

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.



### 2.2. Lift Specification(s) for Export Regions (Not available in USA and Canada)

RX72K, RX63K, RX55K, RX45K and RX45KL lift specification can be found at the URL below or by scanning the QR code. →

[hunter.com/en-int/alignment-racks/scissor-lifts/#docs](https://hunter.com/en-int/alignment-racks/scissor-lifts/#docs)

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.



## 3. Intro - Getting Started

### 3.1. Operator Responsibilities

The operator shall operate the automotive lift only after being properly instructed or trained.

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 section. 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. Lift Operation Safety Rules

- Familiarize yourself with these instructions and the ANSI/ALI ALCTV 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. 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 maintenance section.

### 4.2. Choking 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 at the front and rear of the left rear wheel.

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. Control Panel

See images [Control Panel](#)

### 4.4. Lift Operations

#### 4.4.1. 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.

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.

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.



#### **WARNING**

Do not step on lift if raised higher than 39 in. (0.99 m).

**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**

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 troubleshooting section of this manual.

**CAUTION**

Repeated press and release of the raise button (jogging) can cause premature motor failure. If jogging is detected, lift will enter a time out period and exclamation LEDs will flash.

**CAUTION**

Ensure mechanical locks are fully engaged before proceeding to service the vehicle

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.

**NOTE**

When "MISMATCHED LOCKS" message is illuminated, the "LOWER" button is disabled.

#### 4.4.2. 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.

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)).

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.

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

Remove all wheel chocks.



#### **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.



#### **CAUTION**

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



#### **NOTE**

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

## **4.5. Unlock & 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.

See Image [Lock Plate](#)

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.

## **4.6. Adjusting Turnplates & Fillers**



#### **NOTICE**

In the case of compact vehicles on the RX14KL or RX16KLF, if rear wheels do not reach the slip plates, turnplates can be moved back.

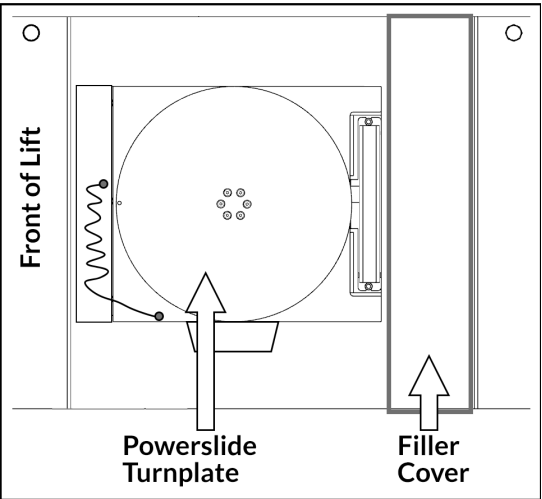
For **powerslide turnplates**, remove the filler cover first. Move powerslide turnplates towards the rear until it's against the frame. Place filler in the empty space over the air hose.



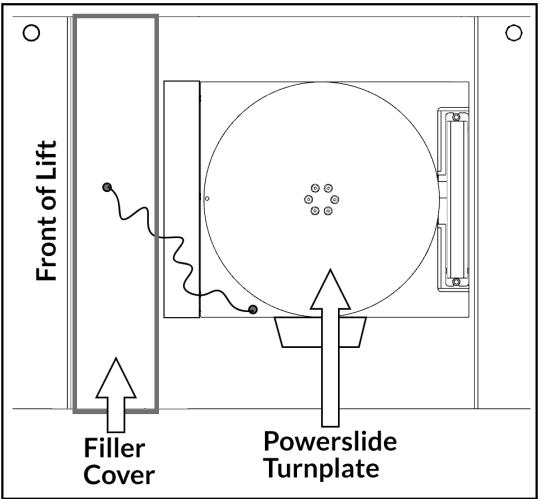
**CAUTION**

Filler cover has slots for air hose route on the bottom. Ensure hose runs through a slot, as not to pinch the air hose. Examples shown below

Filler cover shown on the **right**.

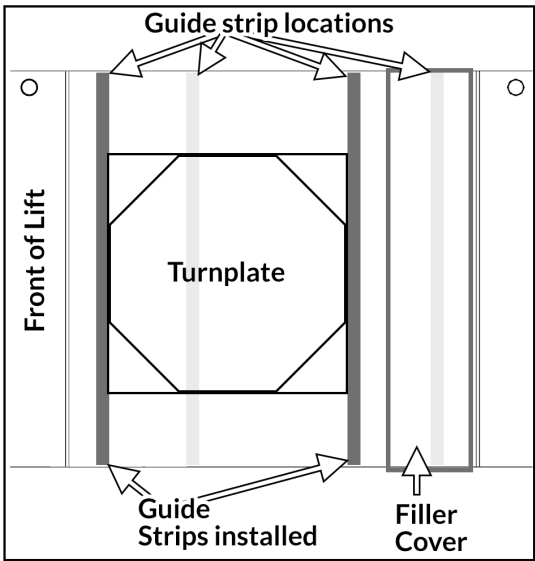


Filler cover shown on the **left**.

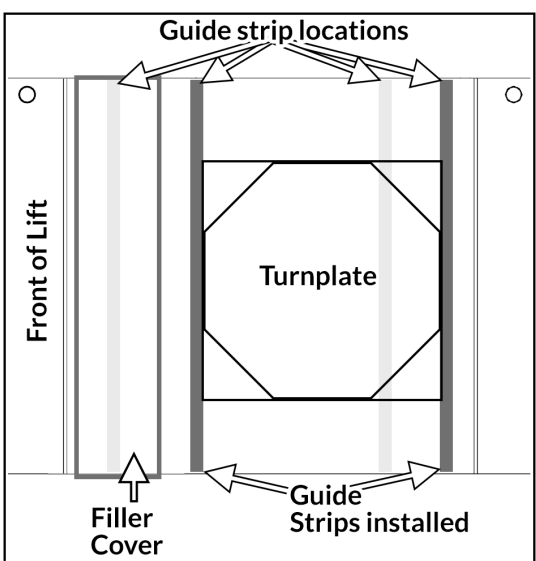


For **standard turnplates**, guide strips need to be moved towards rear to accommodate turnplate & filler being swapped.

Filler cover shown on the **right**.



Filler cover shown on the **left**.





## 4.7. Inflation Station (Optional Feature)

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

See Image [Inflation Station Controls](#)

Tire Pressure Adjustment

Connect the air line(s) to the vehicle.

See Image [Inflate Tire](#)

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.



### NOTE

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

## 4.8. 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.



### WARNING

The max height that the add-on step can be used is 39in (0.99 m).

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:

See Image [Yellow Decal Not Visible](#)

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

See Image [Yellow Decal Visible](#)

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.

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.

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



#### **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.



#### **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.

## **4.9. Auxiliary Jacks**

Refer to jack operation instruction if your lift is so equipped



#### **CAUTION**

The jacks cannot be located closer than 60 inches of each other. Damage to lift, jack or vehicle shifting may occur.

# 5. Regular Maintenance

With due care and maintenance, your Hunter alignment lift can last indefinitely. Please use the following maintenance schedule to keep your Hunter alignment lift in good working order.

## 5.1. Maintenance Schedule

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.



**NOTE**

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



**NOTE**

Scratches to powder-coat should be touched up as soon as possible, on an as-needed basis.

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	PERFORM THE FOLLOWING MAINTENANCE
SCHEDULE	
Daily	Check that all safety warning labels are accessible and readable. Check for proper operation of the lift controls. Check auxiliary locks at all four posts for free rotation and ensure they properly line up with lock ladder. Check the air lock at all four posts for free movement and ensure they are properly lined up with the lock ladder. <b>KEEP LOCK AREA CLEAN AND FREE OF DEBRIS AT ALL TIMES.</b> Check the hydraulic cylinder, power unit, hydraulic lines and fittings, air lines and fittings, and air cylinders for leaks. Any leak must be repaired immediately. Check the floor near the base of each post for cracks or loose concrete around the lag bolts. If any flaws are found, stop using the lift immediately. This is an indication of an unsafe condition and the concrete will have to be replaced. Check for unusual noises, sudden movements, erratic operation or evidence of chips or filings during use. Check all four lifting wire ropes for damage or wear. If any signs of severe corrosion, broken or damaged strands, wire rope elongation, reduced cable diameter, or any other changes in appearance as compared to a normal wire rope are found, the lift must be taken out of service and the wire rope(s) must be replaced prior to further use. Fully lower the lift and check the portion of the wire ropes running vertically inside each post. Pay close attention to the portion of the wire rope that enters the threaded stud at the top of each post. Broken strands indicate signs of fatigue and if found the wire rope(s) must be replaced prior to further use. Raise the runway just enough for observation and set on the mechanical locks. Inspect the wire ropes by looking through cutouts in the bottom of the runways. <b>Note: Use a trouble light for better visibility.</b>

MAINTENANCE SCHEDULE	PERFORM THE FOLLOWING MAINTENANCE
	<p>Raise the runways to several intermediate locations and set on the mechanical locks. Inspect the wire ropes by looking through cutouts in the bottom of the runways, and inside the inspection door on the rear beam. <b>Note: Use a trouble light for better visibility.</b> Fully raise the runways and set on mechanical locks. Inspect the wire ropes by looking through cutouts in the bottom of the runways, and inside the inspection door inside the rear beam. <b>Note: Use a trouble light for better visibility.</b> Check all sheaves for wear or damage. Look for cracks, worn surfaces, or abnormal play or looseness as they rotate around mounting shafts. Check that all sheave mounting shaft retaining bolts are tight. Check for any fluid loss from the hydraulic system. <b>NOTE: When adding hydraulic fluid, the lift MUST be lowered completely.</b> Hose down with water and blow dry with compressed air when salt, ice, snow or other corrosive conditions exist.</p>
Weekly	<p>Check the turning angle gauges and rear slip plates for smooth and easy operation. Clean by blowing out with clean, dry compressed air. Disassembly is not required. DO NOT lubricate turning angle plates or slip plates. <b>(CAUTION: Always wear eye protection when using compressed air).</b> Check anchor bolts on each post for tightness. Torque to 100-110 ft-lb. Check and lubricate rear ramp pivots with SAE 30 oil.</p>
Monthly	<p>Check wire ropes for damage and lubricate with a thin oil (SAE 5W-30). <b>Note: Do not use used motor oils. They contain contaminants that will break down factory applied lubricants. Also, do not use oils containing a solvent base (solvent cutback oils). They also will break down factory applied lubricants. Replace wire ropes immediately if any sign of wire rope damage is found.</b> Inspect entire lift for loose, damaged, or broken bolts. Replace as necessary. Blow dirt from insides of slide plates with compressed air (do not grease). Swing Air/Power Jacks: Clean swing air jacks thoroughly with a degreasing solvent and dry. Wipe cylinder tubes with oil. Apply SAE 30 oil to rollers and pivot pins. Clean both rams and apply SAE 30 Oil (see figure below). Check proper operation of control levers. Verify two handed operation of raise/lower controls. Check for air leak. Check that the locks are fully engaging and unlocking at the correct times. Check that pivot lock pins are undamaged and lock and unlock freely. Verify that counter balance spring is functional. Perform general structural check for damage. Check columns and runways for corrosion. Corrosive agents, solvents, and road salts can greatly reduce the life of the lift in a very short period of time. If these types of agents are spilled or splashed onto the lift, immediately rinse area thoroughly with water. If they come in contact with the wire ropes, wash the wire ropes immediately with water and re-lubricate with low viscosity oil.</p>
	<p>Check the power unit reservoir oil level. Add oil if necessary (use Hunter's specially filtered DEXRON III transmission fluid, 148-128-2). <b>NOTE: Oil must be checked and filled when the lift is in its fully lowered position.</b> Remove air breather cap and oil full level screw located at the top of the reservoir. Fill reservoir with oil until the oil begins to drip from full level screw hole. Replace air breather cap and oil full level screw. If the oil level is found to be low, determine the source of the oil loss and repair immediately. Apply SAE 30 oil to all pivot pins, ramp pins, wheel stop pins and leg shafts. Wipe hoist cylinder with oily cloth and lubricate gear rack. <b>Notes about corrosion:</b> The best preventive maintenance against wire rope corrosion is to keep the wire ropes well lubricated. The oil prevents moisture from entering into the wire rope strands. Once salt and moisture have penetrated into the core of the wire rope it is very difficult to displace and corrosion will begin immediately. Remove top slip plate. Clean thoroughly with a degreasing solvent and dry. Coat unpainted surfaces, where balls roll, with paraffin. Replace any broken balls. Replace top plate. Apply SAE 30 Oil to jack linkage pins and levers (see figure below).</p>
Every Six Months	<p>Check runways and re-level as required. . Store personnel should not adjust any rack level legs. Apply SAE 70 grease to grease fittings on swing air jack cylinders with jack fully extended. <b>NOTE: Do not over-grease; two shots is sufficient.</b></p>

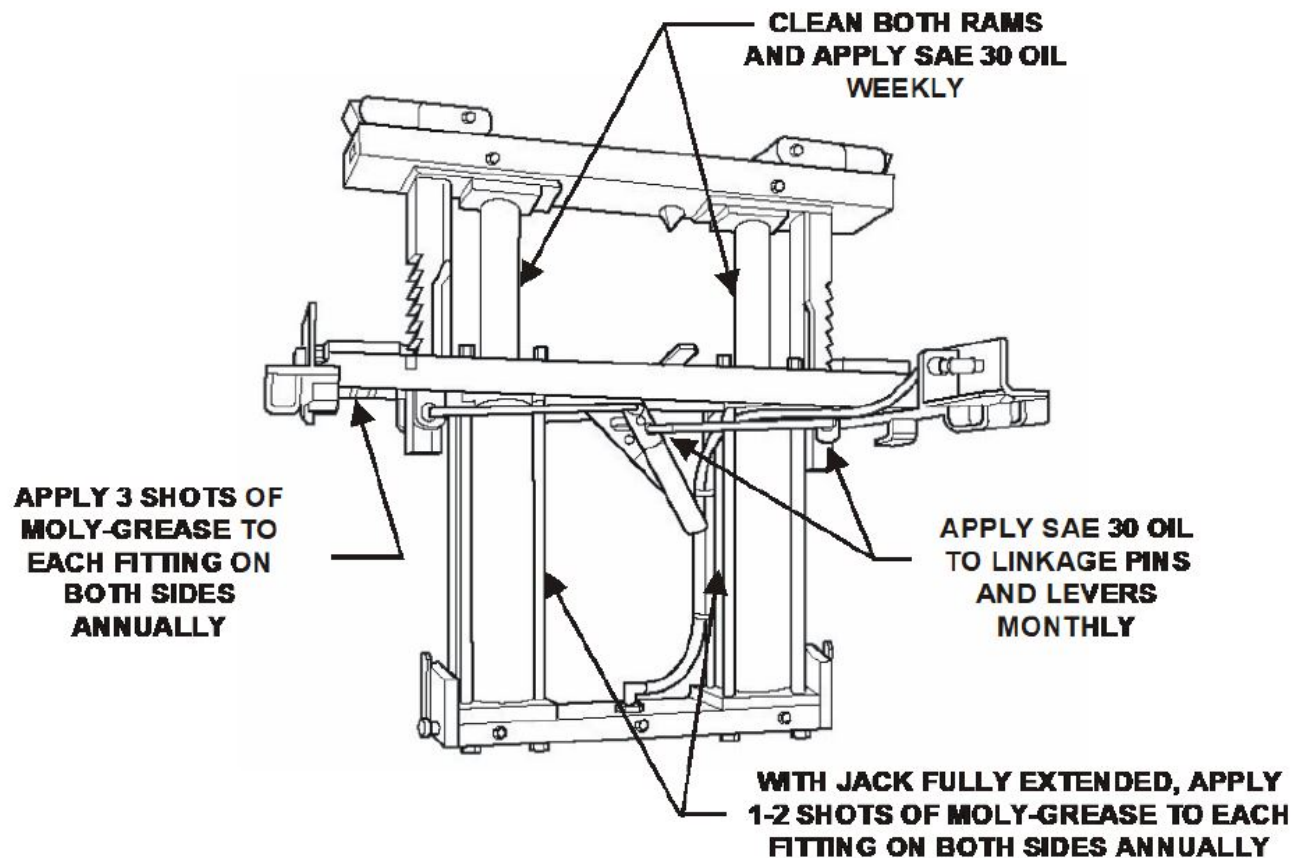
<div>MAINTENANCE</div> <div>SCHEDULE</div>	PERFORM THE FOLLOWING MAINTENANCE
<b>Annually</b>	<p>The entire lift should be inspected yearly (more frequently for severe use applications) by your factory authorized service representative. Apply 3 shots of Moly-Grease to each fitting on both sides of the jack channel assembly (see figure below). Apply 1-2 shots of Moly-Grease to each fitting on both sides of the lower cylinder assembly with jack fully extended (see figure below). Composite cylinders without grease fittings do not require annual lubrication.</p>
<b>Every Two Years</b>	<p>Change hydraulic fluid. Use 4 gallons (15 liters) of Hunter's specially filtered DEXRON III transmission fluid, 148-128-2. <b>NOTE: Oil must be filled when the lift is in its fully lowered position.</b> Drain fluid from reservoir by dropping pump reservoir <b>with the lift lowered completely.</b> Clean any metal particles that may be on the magnet.</p>
<b>Every Four Years</b>	<p>Lubricate the areas shown in the diagram below</p> <ul style="list-style-type: none"> <li>• The D washer and the flange of the roller bearing</li> <li>• The roller bearing and the pin</li> <li>• The UHMW spacer and the roller wheel face</li> </ul> <p>To get the lubricating oil between the roller bearing and the pin, apply a heavy amount of oil in the other two locations and let it wick in.</p> <div data-bbox="410 863 1401 1575"> <p>IT IS RECOMMENDED TO USE A LIGHTWEIGHT SPRAYABLE OIL. DO NOT USE WD-40, ANY OIL WITH A SILICONE CONTENT OR WITH SOLVENTS.</p> <p>The diagram is a cross-sectional view of a roller wheel assembly. It shows a central shaft with a roller wheel mounted on it. The roller wheel is held in place by a retaining ring and a D-washer. An UHMW spacer is positioned between the roller wheel and the shaft. The diagram highlights three specific areas for lubrication, each with 8 application points: the space between the D-washer and the bearing flange, the space between the wheel bearing and the pin, and the space between the UHMW spacer and the roller wheel. Other components labeled include the UHMW spacer, the roller wheel assembly, the D-washer, and the retaining ring.</p> </div> <p>This lubrication can be accomplished without taking the rollers off . We recommend a lightweight sprayable oil like CRC 2-26 multipurpose lubricant (do not use WD-40 or any oil with a silicon content or solvents). If replacing the rollers it is recommended that the same areas be greased using any petroleum based grease that does not contain any silicon.</p> <p>All racks in the factory are applying grease in these areas. Any rack shipped after 6/19 will have the grease added.</p>
<b>Every Six Years</b>	<p>Hunter Engineering requires that the lifting cables on all 4-Post models be replaced every six years. Hunter Service representatives are authorized to perform this service.</p>



## NOTICE

The suggested maintenance above is for normal working conditions. Equipment exposed to unusually dirty or harsh corrosive conditions such as heavy winter road salt may require more frequent maintenance and service.

If any of the conditions described above are observed before, during, or after operation of the lift, the operator shall stop using the lift and report the condition to the supervisor, employer or owner. The lift shall not be used until the cause of the problem has been determined and the appropriate repairs have been made by qualified automotive lift personnel.



## 5.2. Lift Rack Schedule

### 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 III), the lift MUST be lowered completely.  
Check and lubricate rear ramp pivots with SAE 30 oil.  
Check base frame anchor bolts for tightness. Hose down with water and blow dry with compressed air when salt, ice, snow, or other corrosive conditions exist.

### Weekly

- Check the turn plates and rear slip plates for smooth and easy operation. Hose down with water and blow dry with compressed air. Disassembly is NOT required. Blow dirt from insides of turning angle gauges and slide plates with compressed air (do not grease).  
Clean swing air jacks and power jacks thoroughly with a degreasing solvent and dry. Wipe cylinder tubes with oil. Apply SAW 30 oil to rollers and pivot pins. Clean bending and axle correction tools with a degreasing solvent. Inspect all bending tools for wear, cracks, or other defects. Blow dust off of sensors. Clean and polish exterior using soft cloth and liquid polish.  
Caution: Always wear eye protection when using compressed air.
- Caution: Always wear eye protection when handling NLGI grade 2 bearing grease

### 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. Remove top slide plate.  
Clean thoroughly with a degreasing solvent and dry. Coat unpainted surfaces, where balls roll, with paraffin. Replace any broken balls. Replace top plate.  
Do not lubricate turn plates or slip plates.

### Every Six Months

- Check runways and re-level as required. (Should be performed only by an authorized Hunter factory representative).  
Apply SAE 70 grease to grease fittings on swing air jack cylinders with jack fully extended.

### Every Two Years

- Change hydraulic fluid. Use 3-1/2 gallons (13.25 L) of Dexron III 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.
- Caution: Always wear eye protection Nitrile rubber gloves and protective clothing if contact with Dexron III is possible



## 6. Appendix

### 6.1. Environmental Information

The following disposal procedure shall be exclusively applied to the machines having the crossed-out bin symbol on their data plate.



This product may contain substances that can be hazardous to the environment and to human health if it is not disposed of properly. The following information is therefore provided to prevent the release of these substances and to improve the use of natural resources. Electrical and electronic equipment should never be disposed of in the usual municipal waste but must be separately collected for their proper treatment. The crossed-out bin symbol, placed on the product and on this page, reminds the user that the product must be disposed of properly at the end of its life. In this way it is possible to prevent that a non specific treatment of the substances contained in these products, or their improper use, or improper use of their parts may be hazardous to the environment or to human health. Furthermore, this helps to recover, recycle and reuse many of the materials contained in these products. Electrical and electronic manufacturers and distributors set up proper collection and treatment systems for these products for this purpose. At the end of the product's working life, contact your supplier for information about disposal procedures. When you purchase this product, your supplier will also inform you that you may return another worn-out appliance to him free of charge, provided it is of the same type and has provided the same functions as the product just purchased. Any disposal of the product performed in a different way from that described above will be liable to the penalties provided for by the national regulations in force in the country where the product is disposed of.

Further measures for environmental protection are recommended: recycling of the internal and external packaging of the product and proper disposal of used batteries (only if contained in the product).

Your help is crucial in reducing the amount of natural resources used for manufacturing electrical and electronic equipment, minimise the use of landfills for product disposal and improve the quality of life, preventing potentially hazardous substances from being released in the environment

### 6.2. Position Control System (MKS) Mercedes Benz only

MKS is a Mercedes-Benz procedure that may be used to monitor the precision of the wheel alignment lift rack and sensors.

The RX DC lift rack is equipped with MKS mounting brackets in order to make use of this procedure and to obtain valid MKS measurements.

The "Position Control System (MKS)" screen is displayed automatically after the aligner computer boots up when the power is turned on. The MKS screen may also be displayed by pressing the "MKS" softkey located on the Mercedes-Benz logo screen after logging on.



#### **NOTE**

By pressing "MKS Information" from the MKS screen, the MKS Help screen will appear

The MKS system checks the lift at one height. The MKS test height for conventional sensors is usually the fully lowered position. The MKS test height for DSP600 sensors is usually alignment height

**NOTE**

The measurements that appear on the MKS screen are valid only if the MKS measurements have been previously measured and set to zero at the MKS test height.

If the MKS measurements have been previously measured and set to zero, then all measurements should equal 0 degrees 00 minutes  $\pm$  0 degrees 05 minutes. Measurements that are within this tolerance will be green. Measurements that are outside of this tolerance will be red.

Green measurements are considered good and the lift rack and sensors are expected to provide accurate vehicle wheel alignment measuring results.

If red measurements are displayed, then the accuracy of the lift rack and/or sensors are suspect and it is recommended that the sensors first be checked for accuracy.

If the sensors are found to be accurate, then it is recommended that the lift rack be checked for accuracy

**NOTE**

The wheel alignment program will operate regardless of the MKS measuring results. Green or red measurements will not prohibit the use of the operating program.

**Equipment Preparation for MKS Test**

Conventional Sensors Set the lift rack to the fully lowered, drive-on position.

Drive a vehicle onto the lift rack. Lock the MKS brackets located on the sides of the lift into the upright position. Install the wheel alignment sensors onto the appropriate MKS brackets.

Connect all sensor cables (if required) and turn all sensor power switches on. Verify that the index mark of the sensor shaft is at the 12:00 o'clock position, then lock the sensor lock knob.

Level the sensor and lock the sensors to the MKS bracket by tightening the lock knob on the MKS bracket.

Turn the system "ON" by pressing the power switch located on the back of the console where the AC power cord is connected to the cabinet.

**Setting MKS Measurements to Zero**

MKS measurements may be set to zero only after the "Manager" has logged on.

MKS measurements may not be set to zero if a "User" is logged on, or if the "Logon Enable" feature is disabled.

The Mercedes-Benz logo screen will be displayed after logging on to the system using the "Manager" name and password.

Press "MKS" to display the "Position Control System (MKS)" screen.

Have the sensors or targets positioned on MKS brackets and lift at the MKS test height

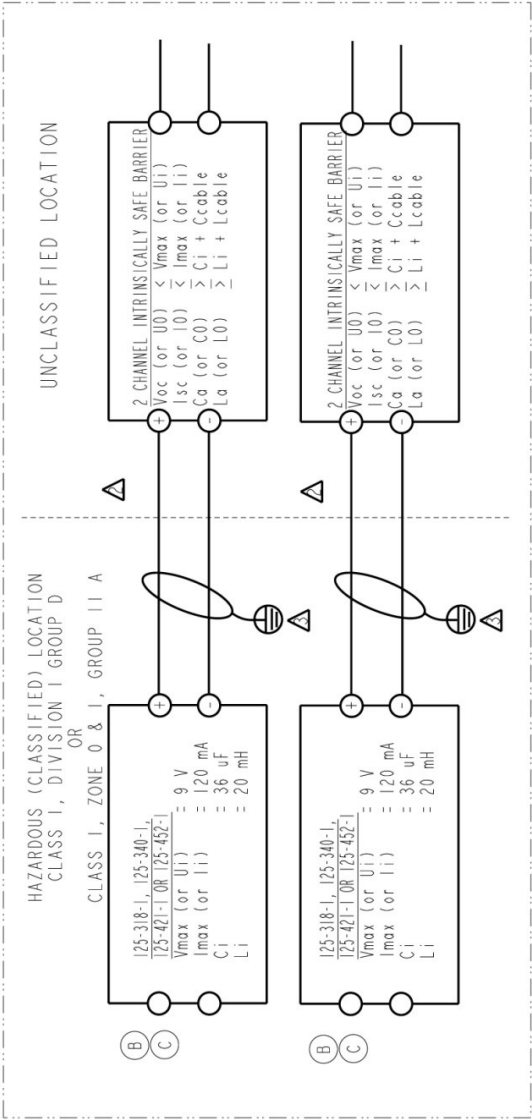
Press "Zero" to set all of the measurements to 0 degrees 00 minutes. The Zero Date will be set to the current time and date.

**NOTE**

The MKS test is not to be used to adjust the toe and camber transducers in the wheel alignment sensors or to level the runways of the lift or pit.

Before performing wheel alignment measurements, the values displayed on the MKS screen must not be greater than or equal to 5 minutes while the sensors are installed in the MKS brackets. If any value is out of tolerance, then the lift and wheel alignment system must be checked.

7. Panel Control Drawing

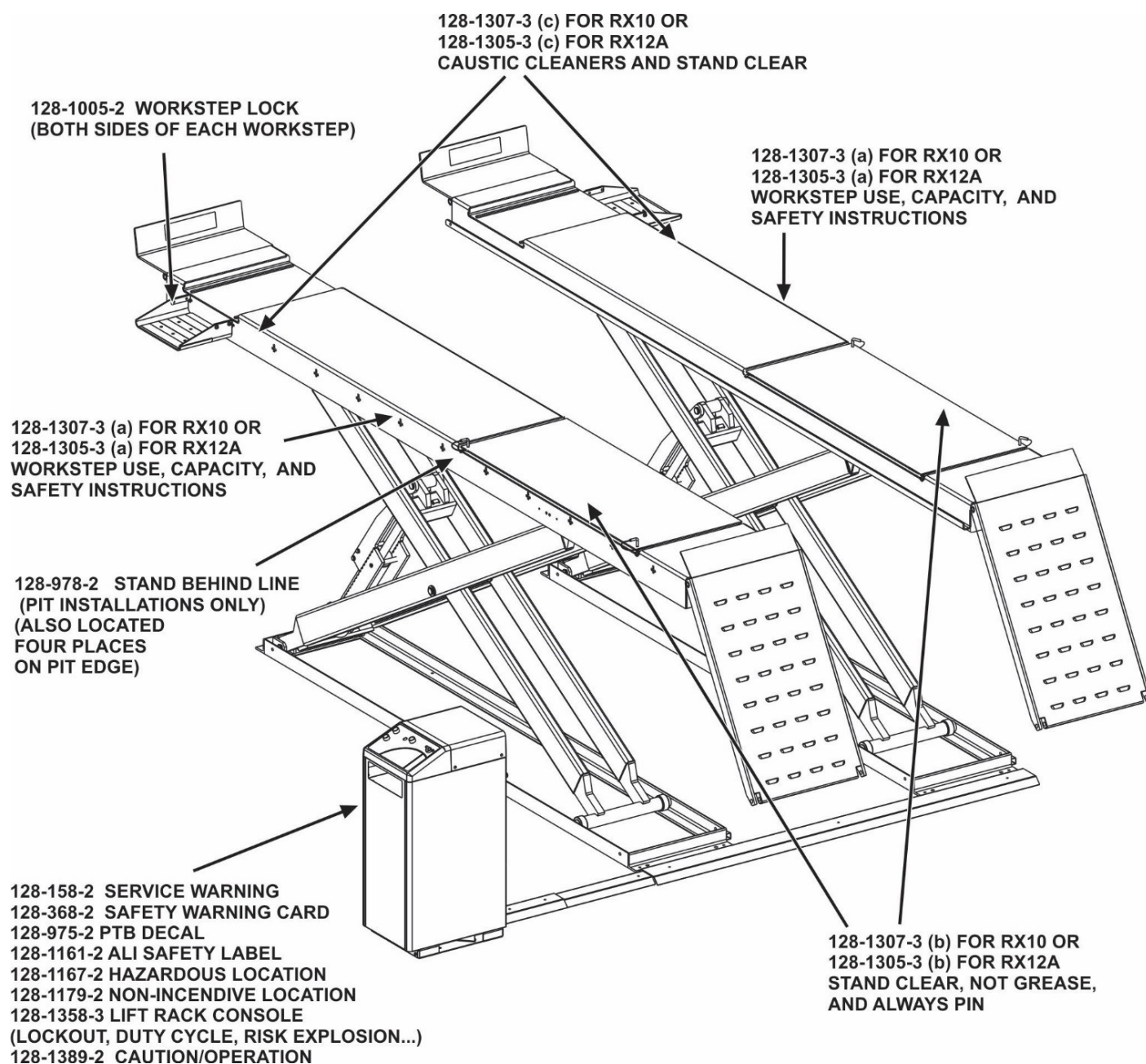


- NOTES:
- 1. INSTALL IN ACCORDANCE WITH ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.
  - 2. MAXIMUM CABLE LENGTH IS 43 FEET OF HUNTER P/N:38-970-2
  - 3. THE I.S. BARRIER WILL NOT OPERATE PROPERLY WITHOUT AN EFFECTIVE GROUND. BE SURE THAT THE BARRIER IS DIN RAIL MOUNTED.
  - 4. WARNING -- SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
  - 5. MAX CAPACITANCE = 60pF/FT  
MAX INDUCTANCE = .20 uH/FT

SHEET OF		HUNTER Engineering Company	
THIRD ANGLE PROJECTION		1250 HUNTER DRIVE BRIDGEON MISSOURI 63044	
C 3-16-12 ADDED 125-452-1		NAME WIRING-CONTROL/IS BARRIER SYS	
B 7-23-08 ADDED 125-421-1		MATERIAL FINISH	
A 2-21-08 REVISED DESIGN		TREAT TREATMENT SCALE NONE	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES: 2 PL DEC+.015 3 PL DEC+.005 ANGLES ± .1°		DR. D. SAUL Date 11-01-01 ENGINEERED BY	
THIS DRAWING IS THE PROPERTY OF THE HUNTER ENGINEERING COMPANY. IT IS NOT TO BE USED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.		SUPERSEDES	
ROUTING R I OC A PD BP MS W P PS		PART NO. 220-44	
SIMILAR TO		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5 2009	

# Appendix A. Images Cross Reference

## 1. Lift Decal Map



## 2. Turn Plate Decals



128-1307-3

### IMPORTANT

CAUSTIC FLOOR CLEANERS, BRAKE FLUID AND SALT WILL SOFTEN POWDER COAT. WASH THESE MATERIALS OFF RACK IMMEDIATELY AFTER CONTACT. APPLY TOUCH-UP PAINT TO SCRATCHES.

**STAND CLEAR  
WHEN LOWERING RACK**

C

### 3. Center Area Runway Decals

**WARNING**

ENSURE WORKSTEP IS FULLY ENGAGED PRIOR TO USE.

128-1307-3

**CAUTION**

**WEIGHT CAPACITY**  
10,000 LBS. / 4,500 KG  
(5,000 LBS. / 2,250 KG PER AXLE)

**SAFETY INSTRUCTIONS**

Read operation manual before use.  
For FREE OPERATION MANUAL write:  
Hunter Engineering Company  
11250 Hunter Drive  
Bridgeton, MO 63044

a

128-1307-3  
DECAL  
RX RNWAY  
10K

**STAND CLEAR WHEN LOWERING RACK**

128-1307-3

**DO NOT GREASE**

CLEAN BY BLOWING OUT WITH COMPRESSED AIR. KEEP OUT WATER, OIL AND DIRT.

**IMPORTANT**

ALWAYS PIN / LOCK TURNPLATES AND SLIP PLATES BEFORE DRIVING ON OR OFF LIFT.

b

128-1307-3

**IMPORTANT**

CAUSTIC FLOOR CLEANERS AND BRAKE FLUID WILL SOFTEN POWDER COAT. WASH THESE MATERIALS OFF RACK IMMEDIATELY AFTER CONTACT.

**STAND CLEAR WHEN LOWERING RACK**

c

**CAUTION:**

- DO NOT RAISE OR LOWER LIFT WITH VEHICLE SUPPORTED ON JACKS.
- ALWAYS SET BRAKE AND CHOCK A REAR WHEEL BEFORE OPERATING LIFT.
- DO NOT EXCEED WEIGHT CAPACITY.
- BE SURE OPERATING AREA IS FREE OF OBSTRUCTIONS AND PERSONNEL.
- DO NOT OPERATE LIFT WITH COVERS REMOVED OR LOCKS DISABLED.

**TO RAISE RACK**

- PUSH RAISE BUTTON TO RAISE RACK.
- RELEASE RAISE BUTTON AT DESIRED HEIGHT.
- LOWER LIFT ONTO LOCKS BY PUSHING LOWER BUTTON. ▼ NOT ON LOCKS AND ▲ MISMATCHED LOCKS LIGHTS SHOULD BE OFF.

**TO LOWER RACK**

- PRESS THE RAISE BUTTON TO LIFT RACK OFF THE LOCKS (USUALLY ONE SECOND).
- PRESS AND HOLD THE LOCK RELEASE BUTTON.
- PRESS LOWER BUTTON TO LOWER LIFT TO DESIRED HEIGHT. RELEASE BOTH BUTTONS WHEN LIFT HAS REACHED DESIRED HEIGHT.
- PRESS LOWER AGAIN TO LOWER ONTO LOCKS OR BASE. ▼ NOT ON LOCKS AND ▲ MISMATCHED LOCKS LIGHTS SHOULD BE OFF.

▲ MISMATCHED LOCKS LIGHT IS ON: PRESS RAISE UNTIL LIGHT IS OFF AND LOCKS ARE MATCHED AGAIN. (YOU WILL USUALLY HEAR ONE LOCK CLICK.) LOWER BUTTON IS DISABLED. RAISE THE LIFT TO RE-LEVEL.

▼ NOT ON LOCKS LIGHT IS ON (AND ▲ MISMATCHED LOCKS LIGHT IS OFF): CONTINUE PUSHING LOWER BUTTON UNTIL ▼ NOT ON LOCKS LIGHT GOES OFF.

128-1745-2

**WARNING**

**DO NOT STEP IF LOCK INDICATORS ARE YELLOW.**

128-1745-2

**WARNING**

STAY BEHIND YELLOW LINE WHEN THE LIFT MOVES.

128-1745-2



## 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

## 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

<p>MAX. AIR SUPPLY 150 PSI 10.3 BAR</p> <p>CE UK CA</p>		<p><b>⚠ DANGER</b></p> <p>Lockout power before working on equipment.</p> <p><i>Couper le courant avant de travailler sur l'équipement.</i></p> <p>128-310-2</p>	 
<p>DUTY CYCLE OF THIS LIFT IS 60 SEC ON AND 540 SEC OFF FOR A 10 MINUTE (600 SEC) CYCLE.</p> <p>128-1165-2</p>	<p><b>⚠ DANGER</b></p> 	 	
<p><b>⚠ WARNING</b></p> <p>RISK OF EXPLOSION: THIS INSTRUMENT CABINET HAS INTERNAL ARCING OR SPARKING PARTS WHICH SHOULD NOT BE EXPOSED TO FLAMMABLE VAPORS. TO REDUCE THE RISK OF EXPLOSION, IT SHOULD NOT BE LOCATED IN A RECESSED AREA OR BELOW GARAGE FLOOR LEVEL.</p> <p>ATTENTION: Ne pas utiliser à un niveau inférieur à celui du plancher du garage ou du sol.</p> <p>128-156-2</p>	<p><b>Disconnect power before removing covers.</b></p> <p><i>Débrancher avant de retirer les couvercles.</i></p> <p>128-309-2</p>	<p>128-1358-3 DECAL - LIFT RACK CONSOLE</p>	

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



# 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.

[www.autolift.org](http://www.autolift.org)

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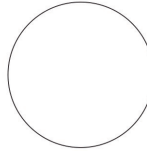
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18.08

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



128-975-2



## SAFETY WARNING LABELS FOR WHEEL ENGAGING SURFACE LIFTS

### Lift Owner/User Responsibilities:

- This Safety Warning placard **SHALL** be displayed in a conspicuous location in the lift area.
- Use one of the mounting arrangements illustrated on back of this placard.
- These Safety Warning labels supplement other documents supplied with the lift.
- Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.



[www.autolift.org](http://www.autolift.org)

## TYPICAL PLACARD LOCATIONS



4. Turnplate Warnings

CARE INSTRUCTIONS

KEEP OUT WATER, OIL AND DIRT.  
CLEAN OCCASIONALLY.  
DO NOT GREASE.

WA90-17

IMPORTANT

ALWAYS PIN / LOCK TURNPLATES  
AND SLIP PLATES BEFORE DRIVING  
ON OR OFF LIFT.

HUNTER

Engineering Company

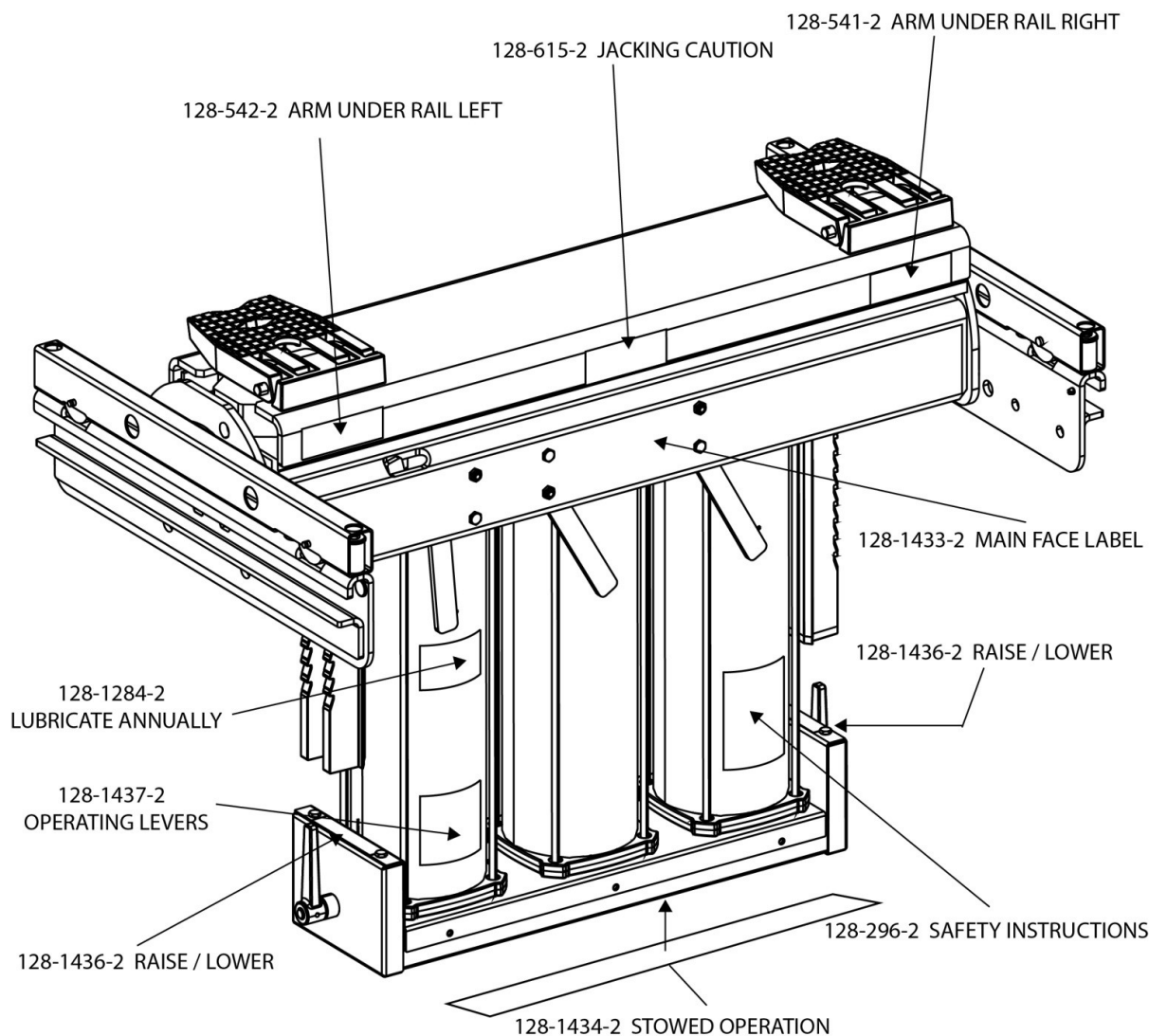
CARE INSTRUCTIONS

KEEP OUT WATER, OIL AND DIRT.  
CLEAN OCCASIONALLY.  
DO NOT GREASE.

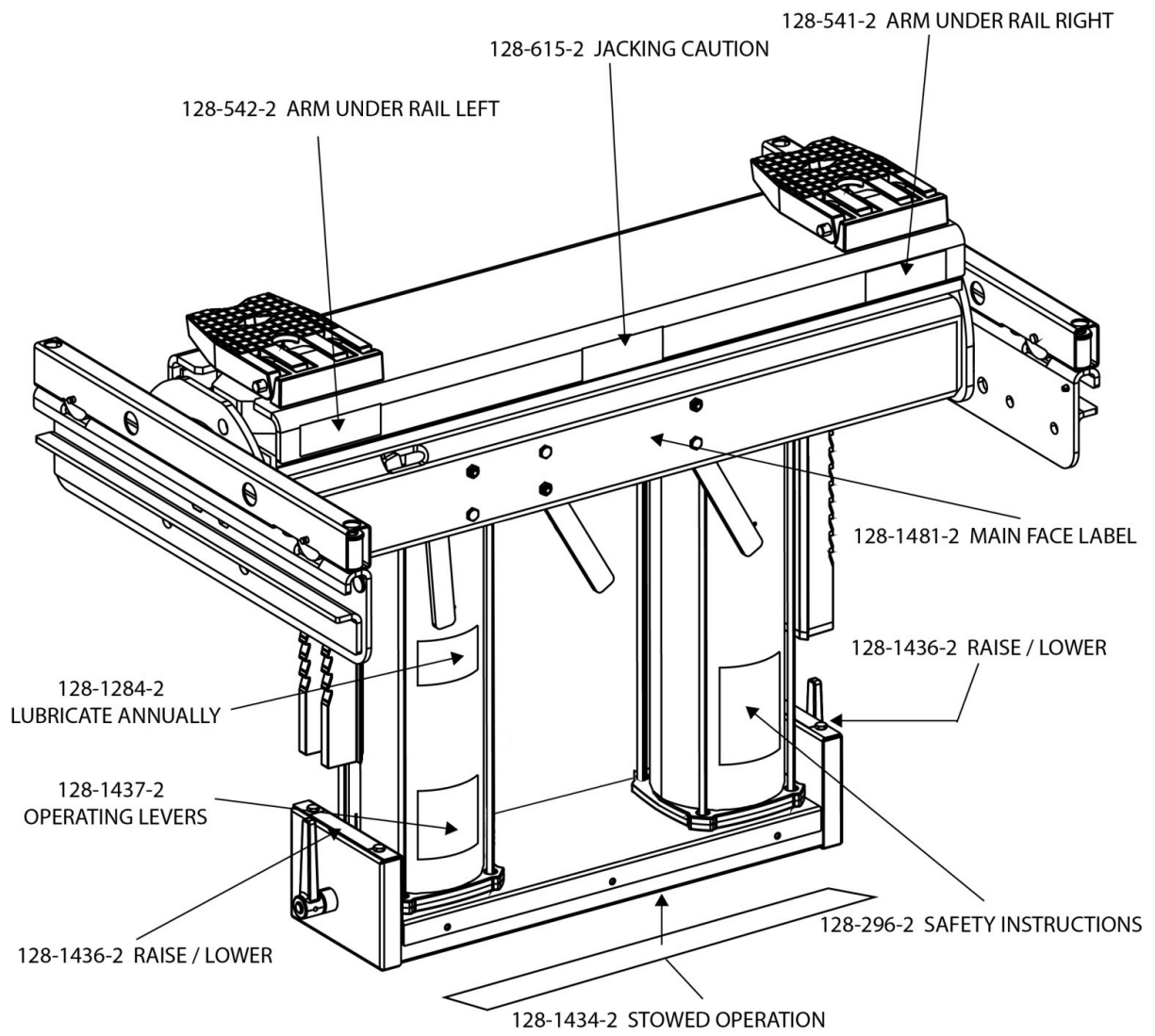
128-1301-2

5. Jack Decal Locations

-- 9,000 lbs. jack --



-- 6,000 lbs. jack --



## 6. Jack Decals



### SAFETY INSTRUCTIONS

**CHOCK** front and rear of both left wheels before raising vehicle.

**SECURE JACK** in vertical position before raising vehicle. Ensure pivot release pins are fully engaged.

**JACK MUST BE** lowered onto locks after height change.

**DO NOT OPERATE** lift while vehicle is supported on jacks.

**DO NOT EXCEED** rated capacity of jack.

**DO NOT EXCEED** rated capacity of lift.

**READ OPERATION MANUAL** before use.  
For FREE OPERATION MANUAL write:

Hunter Engineering Company  
11250 Hunter Drive  
Bridgeton, MO. 63044

128-296-2



### LUBRICATE ANNUALLY

Swing jack to vertical position.  
Fully extend jack. Inject 1 or 2 shots of grease into cylinders (use Hunter tool # 145-420-2 or similar) and all other fittings. Oil all moving parts.

128-1294-2

### OPERATING LEVERS

**R.H. LEVER** is pivot release lever.  
Operate only when jack is fully retracted.

**LONG L.H. LEVER** is lock release lever.  
Raise weight off locks before releasing.

**SHORT L.H. LEVER** is lock engaging lever.  
Raise lever to enable locks.

**LEVERS AT SIDES** are jack height controls.

128-325-2

# 8. Hunter's 3-Year Warranty

January 1, 2021

Hunter Engineering Company warrants new equipment to be free from defects in material and workmanship under normal conditions of use for a period of three (3) years from the date of installation.

## The Details

Exceptions to this warranty are listed below:

- Field labor is covered under this warranty for a period of six (6) months.
- ADASLink™ units carry a one (1) year warranty and remain under warranty as long as a subscription is maintained there after.
- DAS 3000 units, including electronic circuit boards, carry a one (1) year warranty.
- Printers carry a one (1) year warranty.
- Normal consumables and wear items are not covered. Exception is batteries, which are warranted for a period of six (6) months.
- Product that has been subject to abuse, misuse, alterations, accident, exposure to the elements, tampering, unreasonable use, or not maintained in a reasonable or necessary manner.
- Replacement parts purchased through the Hunter Service Center and no longer covered by machine warranty are warranted for a period of six (6) months.

## How do I submit a claim?

In case of any warranty claim, it will be necessary to contact your local authorized Hunter Service Representative. To have an item considered for warranty, it must be returned to Hunter Engineering Company for inspection and evaluation. This must be done on a freight prepaid basis. If after our inspection the product proves to be defective, and is within the time frame specified, we will repair or replace the item at no additional cost.

This is Hunter Engineering Company's only warranty with respect to new equipment. Hunter Engineering Company disclaims all other warranties to the extent permitted by law. This express warranty and any implied warranties of merchantability and fitness for a particular purpose shall not extend beyond the warranty period. Hunter Engineering Company is not responsible for any incidental or consequential damages, including, but not limited to, loss of business.

## Can I transfer my warranty?

We do not authorize any person to assume for us any other liabilities with our products. Any remaining warranty may be transferred to subsequent purchasers by forwarding the purchaser's name, address, phone number and equipment serial number to:

<b>Hunter Engineering Company   Customer Service Department</b>
<b>11250 Hunter Drive, Bridgeton, MO 63044</b>
<b>(800) 448-6848</b>

See our document library at [www.Hunter.com](http://www.Hunter.com) for additional details.



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