OPERATION INSTRUCTIONS

MODEL RL, RLHD
Parallel Lift Rack
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1. For Your Safety

1.1 Warning/Safety Instruction Decals

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

Read and follow all caution and warning decals affixed to equipment and tools. Misuse of this equipment can cause personal injury and shorten the life of the lift. If for any reason any of the decals are missing, destroyed, or are no longer legible, a new kit may be ordered free of charge by contacting:

Hunter Engineering Company 1-800-448-6848.

Order part number 20-1156-1, "RL & RLHD Warning Label Kit." The kit will contain all decals described in the figure below, along with this diagram for placement.

Decal List

128-46-2  Stand Clear
128-156-2  Cabinet Location Warning
128-158-2  Service Warning
128-180-2  Safety Instructions
128-203-2  Feet Off
128-242-2  8,000 lb. Maximum Vehicle Weight (RL)
128-308-2  Safety Instructions
128-309-2  Disconnect Power, Danger
128-310-2  Lockout Power, Danger
128-368-2  Safety Warning Card
128-515-2  Maximum Vehicle Weight 16,000 lb.(RLHD)
128-567-2  Caustic Cleaners
128-570-2  Important Level Runways
Model RL, RLHD

RL/RLHD Warning Label Location Diagram
Safety Instructions

**SAFETY INSTRUCTIONS**

1. Do not exceed weight capacity.
2. Always position vehicle so that front wheels centered on turn plates.
3. Always set vehicle parking break and chock wheels before operating lift.
4. Be sure that operating area is free of obstructions and personnel.
5. Do not operate lift with covers removed.

---

Read operation manual before use.

For FREE OPERATION MANUAL write:

Hunter Engineering Company
11250 Hunter Drive
Bridgeton, MO 63044
1. For Your Safety

**SAFETY WARNING LABELS**

**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 placards supplement other documentation supplied with the lift.
- **D.** Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.

**SAFETY WARNING LABELS**

**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 placards supplement other documentation supplied with the lift.
- **D.** Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.

**SAFETY INSTRUCTIONS**

1. **WARNING**
   - Position vehicle with center of gravity midway between adapters.
   - Remain clear of lift when raising or lowering vehicle.
   - Keep area if vehicle is in danger of falling.
   - Avoid excessive rocking of vehicle while on lift.
   - Keep clear of pinch points when lift is moving.

2. **WARNING**
   - Keep feet clear of lift while lowering.
   - Keep clear of pinch points when lift is moving.
   - Read operating and safety manuals before using lift.
   - Proper maintenance and inspection is necessary for safe operation.

3. **CAUTION**
   - Lift to be used by trained operator only.
   - Authorized personnel only in lift area.
   - Use vehicle manufacturer's lift points.
   - Always use safety stands when removing or installing heavy components.

4. **ATTENTION**
   - This Instrument Cabinet has internal arching 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.

5. **IMPORTANT**
   - Always depress and hold the lock/level button as required to fully set both runways onto the locks or rest bolts after each use. Failure to do so may result in a cumulative out of level condition.

6. **ATTENTION**
   - Do not operate a damaged lift.

---

**ATTENTION - NE PAS UTILISER AU NIVEAU INFERIEUR A CELUI DU PLANCHER DU GARAGE OU DU SOL**

---

**IMPORTANT**

ALWAYS DEPRESS AND HOLD THE LOCK/LEVEL BUTTON AS REQUIRED TO FULLY SET BOTH RUNWAYS ONTO THE LOCKS OR REST BOLTS AFTER EACH USE. FAILURE TO DO SO MAY RESULT IN A CUMMULATIVE OUT OF LEVEL CONDITION.
Dangers

128-309-2

DANGER

Disconnect power before removing covers.

128-310-2

DANGER

Lockout power before working on equipment.

128-203-2

STAND CLEAR
WHEN LOWER RACK

128-46-2
Cautions

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

128-158-2

CAUTION

CAUSTIC FLOOR CLEANERS, BRAKE WINTER ROAD SALTS WILL SOFTEN AND REMOVE PAINT, WASH THESE MATERIALS OFF RACK IMMEDIATELY AFTER CONTACT.

128-567-2

Weight Limits

CAUTION

WEIGHT CAPACITY 7,000 LBS.
3,500 LBS. PER AXLE

RL (Early Models) 128-299-2

CAUTION

WEIGHT CAPACITY 8,000 LBS.
4,000 LBS. PER AXLE

RL (Later Models) 128-242-2

CAUTION

WEIGHT CAPACITY 16,000 LBS.
8,000 LBS. PER AXLE

RLHD 128-515-2
1. For Your Safety

- Do not exceed rated lifting capacity.
- Set vehicle parking brake, chock wheels before operating lift rack.
- Ensure that operating area is free of obstructions and personnel.

**OPERATING INSTRUCTIONS**

**TO RAISE LIFT RACK:**
1. Turn “POWER” SWITCH to “ON” position.
2. Depress “RAISE” button to begin raising lift rack.
   Release button when rack reaches desired height.
3. Depress “LOCK” button until lift rack locks are engaged.
4. Turn “POWER” switch to “OFF” position.

**TO LOWER LIFT RACK:**
1. Turn “POWER” switch to “ON” position.
2. Depress “LOWER” button to begin lowering lift rack.
   Release button when lift rack reaches fully descended position.
3. Depress “LOCK” button until lift rack is resting on all floor stops.
4. Turn “POWER” switch to “OFF” position.
# 2. Lift Specifications

## 2.1 Lift Capabilities

<table>
<thead>
<tr>
<th></th>
<th>RL</th>
<th>RLHD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Lifting Weight:</strong></td>
<td>8000 lb. (3628 kg) (may also have a maximum capacity of only 7,000 lb.)</td>
<td>16,000 lb. (7256 kg)</td>
</tr>
<tr>
<td><strong>Maximum Lifting Height:</strong></td>
<td>65 inches (1651 mm)</td>
<td>65 inches (1651 mm)</td>
</tr>
<tr>
<td><strong>Alignment Height:</strong></td>
<td>30 inches (762 mm)</td>
<td>30 inches (762 mm)</td>
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<tr>
<td><strong>Lifting Speed:</strong></td>
<td>40 seconds</td>
<td>53 seconds</td>
</tr>
<tr>
<td><strong>Lowering Speed:</strong></td>
<td>35 seconds</td>
<td>40 seconds</td>
</tr>
<tr>
<td><strong>Tread Width:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum:</td>
<td>40 Inches (1016 mm)</td>
<td>40 inches (1016 mm)</td>
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<tr>
<td>Inside Tires:</td>
<td></td>
<td></td>
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<tr>
<td>Maximum:</td>
<td>79 inches (2006 mm)</td>
<td>85 inches (2159 mm)</td>
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<tr>
<td>Outside Tires:</td>
<td></td>
<td></td>
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<tr>
<td><strong>Maximum Wheel Base:</strong></td>
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<tr>
<td>Standard Runway:</td>
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<tr>
<td>4–Wheel Alignment:</td>
<td>138 inches (3505 mm)</td>
<td>138 inches (3505 mm)</td>
</tr>
<tr>
<td>2–Wheel Alignment:</td>
<td>144 inches (3658 mm)</td>
<td>170 inches (4318 mm)</td>
</tr>
<tr>
<td>General Purpose:</td>
<td>157 inches (3987 mm)</td>
<td>183 inches (4648 mm)</td>
</tr>
<tr>
<td>With Runway Extension:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4–Wheel Alignment:</td>
<td>164 inches (4165 mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>2–Wheel Alignment:</td>
<td>170 inches (4318 mm)</td>
<td>N/A</td>
</tr>
<tr>
<td>General Purpose:</td>
<td>183 inches (4648 mm)</td>
<td></td>
</tr>
</tbody>
</table>
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 maintenance and inspection procedures, but in no event shall the lift operator fail to inspect or take notice of the procedures in the tables on page 17. 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 results in 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 on page 23.
4. Detailed Operation Instructions

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.

Be sure that distance from door to rear of vehicle is at least 37-3/4 inches (959 mm).

Watch lift and vehicle when operating.

Do not operate a lift with anyone in the vehicle.

Press “LOCK/LEVEL” button to engage the 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 by 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 very important to prevent the vehicle from rolling while positioned on elevated runways.
4.2 Chocking Procedure

Adjust the turning angle gauges (with lock pins installed) to match the tread width of the vehicle.

Carefully drive the vehicle onto the runways until the front wheels are centered on the turning angle gauges.

Place the transmission in PARK, and SET the emergency brake.

Place a wheel chock, 22-422-2, at the front and rear of the left rear wheel.

![LEFT REAR WHEEL SHOWN](image)

Check to ensure that the rear of the vehicle does not extend past yellow/black mark on ramp.

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, if found, remove.

Check that the turning angle gauge and runway slip plate lock pins are installed.

Check rear of vehicle for clearance.

⚠️ CAUTION: Runways move to the rear as they go up. Observe the rear of the vehicle as it raises to avoid hitting any obstructions.
Turn “POWER” switch to the “ON” position.

The “POWER RUN” light will illuminate. The switch is spring-loaded to turn to “RUN” position when released.

Depress and hold “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 “RAISE” button when lift reaches desired height.

The pump will shut off and the lift will stop.

Press and hold “LOCK/LEVEL” button until lift lowers and the mechanical locks engage.

Turn OFF “POWER” switch.

### Lowering the Lift

Remove all obstacles from under rack and runways.

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

Check that the turning angle gauge and runway slip plate lock pins are installed.

Turn “POWER” switch to the “ON” position.

⚠️ **CAUTION:** To avoid damage to the lift, ensure that all four leveling legs and swing air jacks are pivoted and locked to the horizontal position before lowering.

Depress and hold “LOWER” button.

The pump will operate, raising the runways a few inches. Lifting the runways removes the load from the mechanical locks, allowing them to disengage. The pump will then shut off and the lift will descend as long as the button is held.

If the lift is being lowered to a different working height, depress and hold “LOCK/LEVEL” button several times until lift lowers and the mechanical locks engage before working on vehicle.

If lift is being lowered completely, depress “LOCK/LEVEL” button several times until lift rack is resting on all floor stops before removing the wheel chocks.

Turn OFF “POWER” switch.

Remove all chocks.

Carefully drive the vehicle off the runways.
4.4 Setting to Alignment Height

The leveling legs on the lift allow the vehicle to be set to the proper height and level condition for alignment work.

Setting the lift on the leveling legs

Raise the lift using procedure in “Raising Lift” (pages 14-15) until the runways are approximately 30 inches (762 mm) from the floor.

Pivot and lock all leveling legs to their vertical position.

Lower lift onto the leveling legs using procedure in “Lowering Lift” (page 15).

NOTE: Ensure that all four leveling legs are locked in the vertical position before lowering lift onto legs for alignment work.

Turn OFF “POWER” switch.

Lowering the vehicle from alignment height

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

Check that the turning angle gauge and runway slip plate lock pins are installed.

Turn ON “POWER” switch.

Depress and hold the “RAISE” button until the lift is high enough to pivot and lock the leveling legs in the horizontal position.

Pivot legs into horizontal storage position.

Lower the lift using procedure in “Lowering Lift” (page 15).
### 5. Regular Maintenance

#### 5.1 Maintenance Schedule

When the “POWER” switch is turned to the “ON” position and the “RUN” light flashes four times, the lift has accumulated the required operating time for a scheduled maintenance check by a qualified factory service representative.

<table>
<thead>
<tr>
<th>MAINTENANCE SCHEDULE</th>
<th>PERFORM THE FOLLOWING MAINTENANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DAILY</strong></td>
<td>Check the mechanical lock mechanism in each base.</td>
</tr>
<tr>
<td></td>
<td>Clean any debris from the locks.</td>
</tr>
<tr>
<td></td>
<td>Keep lock area clean and free of debris at all times.</td>
</tr>
<tr>
<td></td>
<td>Check the hydraulic cylinders, hoses and fittings for leaks.</td>
</tr>
<tr>
<td></td>
<td>Any leaks must be corrected immediately.</td>
</tr>
<tr>
<td></td>
<td>Check condition of hoses.</td>
</tr>
<tr>
<td></td>
<td>Worn or frayed hoses must be replaced immediately.</td>
</tr>
<tr>
<td></td>
<td>Check for any fluid loss from the hydraulic system.</td>
</tr>
<tr>
<td></td>
<td>The reservoir fluid level is automatically monitored by sensors, but it should be checked manually as well.</td>
</tr>
<tr>
<td></td>
<td>When adding hydraulic fluid (Dexron II or III), the lift MUST be lowered completely.</td>
</tr>
<tr>
<td></td>
<td>Check and lubricate rear ramp pivots with SAE 30 oil.</td>
</tr>
<tr>
<td></td>
<td>Check base channel anchor bolts for tightness.</td>
</tr>
<tr>
<td><strong>WEEKLY</strong></td>
<td>Check the turning angle gauges and rear slip plates for smooth and easy operation.</td>
</tr>
<tr>
<td></td>
<td>Clean by blowing out with compressed air. Disassembly is NOT required.</td>
</tr>
<tr>
<td></td>
<td><strong>(CAUTION: Always wear eye protection when using compressed air).</strong></td>
</tr>
<tr>
<td></td>
<td>Do NOT lubricate turning angle plates or slip plates.</td>
</tr>
<tr>
<td><strong>EVERY TWO YEARS</strong></td>
<td>Change hydraulic fluid. Use 5 gallons (19 liters) of Dexron II or III transmission fluid.</td>
</tr>
<tr>
<td></td>
<td>Drain fluid from reservoir by removing magnetic plug on front of reservoir with the lift lowered completely.</td>
</tr>
<tr>
<td></td>
<td>Clean any metal particles that may be on the plug before replacing.</td>
</tr>
</tbody>
</table>
# 6. Troubleshooting

## 6.1 Troubleshooting Chart

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift does not operate.</td>
<td>&quot;POWER&quot; switch in &quot;OFF&quot; position. &quot;POWER&quot; switch in &quot;RUN&quot;, &quot;RUN&quot; light not on. Circuit breaker or fuse blown in shop power panel. Self test failure. Electrical malfunction in control console. Hydraulic system malfunction.</td>
<td>Rotate switch to &quot;ON&quot; position. Rotate switch to &quot;ON&quot; position. Locate shop power panel and restore power. If overload repeats due to lift operation, contact factory service representative. Contact factory service representative. Contact factory service representative.</td>
</tr>
<tr>
<td>&quot;RAISE&quot; button depressed, motor runs but lift does not move.</td>
<td>4-way valve manually operated. Vehicle is beyond capacity (8,000 lb. (3628 kg) for RL, 16,000lb. (7256 kg) for RLHD) Electrical/Hydraulic control malfunction.</td>
<td>Turn OFF shop power. Remove control console rear panel. Depress 4-way valve manual override knob and turn clockwise into detent position. Replace rear panel. Do not attempt to lift vehicles in excess of: 8,000 lb. (3628 kg) for RL, 16,000 lb. (7256 kg) for RLHD. Contact factory service representative.</td>
</tr>
<tr>
<td>Runways continue to rise after &quot;RAISE&quot; button is released.</td>
<td>Electrical control malfunction.</td>
<td>Turn OFF &quot;POWER&quot; switch. Turn OFF shop power. Contact factory service representative.</td>
</tr>
</tbody>
</table>
# Troubleshooting (continued)

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;RAISE&quot; button depressed, motor runs but lift raises slowly.</td>
<td>One or both 2-way valves manually operated. Vehicle is beyond capacity (8,000 lb. (3628 kg) for RL, 16,000lb. (7256 kg) for RLHD)</td>
<td>Turn OFF shop power. Remove control console rear panel. Depress 2-way valve(s) manual override knob and turn clockwise into detent position. Replace rear panel. Do not attempt to lift vehicles in excess of: 8,000 lb. (3628 kg) for RL, 16,000lb. (7256 kg) for RLHD.</td>
</tr>
<tr>
<td>&quot;RAISE&quot; button depressed, motor runs but lift lowers.</td>
<td>2-way and 4-way valves manually operated. Electrical/Hydraulic control malfunction.</td>
<td>Turn OFF shop power. Remove control console rear panel. Depress 2-way and 4-way valves manual override knob and turn clockwise into detent position. Replace rear panel. Contact factory service representative.</td>
</tr>
<tr>
<td>&quot;RAISE&quot; button depressed, lift rises but no sound of mechanical locks passing through detents.</td>
<td>Lock mechanism binding.</td>
<td>Clean and lubricate lock mechanism pivot points. If condition remains, contact factory service representative.</td>
</tr>
<tr>
<td>Safety ratchet not fully engaged.</td>
<td>Misalignment of ratchets.</td>
<td>Contact factory service representative.</td>
</tr>
<tr>
<td>&quot;LOWER&quot; button depressed, motor runs and lift continues to rise.</td>
<td>Electrical/Hydraulic control malfunction.</td>
<td>Contact factory service representative.</td>
</tr>
<tr>
<td>&quot;LOWER&quot; button depressed, motor runs but lift does not move.</td>
<td>4-way valve manually operated. Vehicle is beyond capacity (8,000 lb. (3628 kg) for RL, 16,000lb. (7256 kg) for RLHD) Hydraulic system malfunction.</td>
<td>Turn OFF shop power. Remove control console rear panel. Depress 4-way valve manual override knob and turn clockwise into detent position. Replace rear panel. Do not attempt to lift vehicles in excess of: 8,000 lb. (3628 kg) for RL, 16,000lb. (7256 kg) for RLHD. Contact factory service representative.</td>
</tr>
</tbody>
</table>
### Troubleshooting (continued)

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
</table>
| "LOWER" button depressed, lift raises slightly, then stops. | One or both 2-way valves manually operated.  
Locks not completely disengaged.  
Velocity fuse tripped.  
Electrical/Hydraulic control malfunction. | Turn OFF shop power.  
Remove control console rear panel.  
Depress 2-way valve(s) manual override knob and turn clockwise into detent position. Replace rear panel.  
Press and hold "LOWER" button again.  
Contact factory service representative.  
Contact factory service representative. |
| Lift continues to descend after "LOWER" button is released and motor stopped. | 2-way and 4-way valves manually operated.  
Electrical/Hydraulic control malfunction. | Turn OFF shop power.  
Remove control console rear panel.  
Depress 2-way and 4-way valves manual override knob and turn clockwise into detent position. Replace rear panel.  
Contact factory service representative. |
| Lift quits operating. | Two buttons pressed simultaneously.  
Button pressed at power up.  
Exceeded expected operational time. | Turn "POWER" switch "OFF" and back to "ON".  
Turn "POWER" switch "OFF" and back to "ON".  
Do not attempt to continually operate pump with lift in fully raised position.  
Do not attempt to lift vehicles in excess of: 8,000 lb. (3628 kg) for RL, 16,000lb. (7256 kg) for RLHD. |
# Appendix

## Maintenance and 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.

<table>
<thead>
<tr>
<th>Type of Maintenance/Training</th>
<th>Date Performed</th>
<th>Performed By: (Initials)</th>
<th>Type of Maintenance/Training</th>
<th>Date Performed</th>
<th>Performed By: (Initials)</th>
</tr>
</thead>
<tbody>
<tr>
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