

Operator's Manual for:
L200UARS
Ultra
Series 05
Commercial Wheelchair Lifts



"Providing Access to the World"®

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25747

March 2002

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⚠ WARNING



Read manual before operating lift. Failure to do so may result in serious bodily injury and/or property damage. Keep manual in lift storage pouch.

Ultra Series 05

Congratulations

We at The Braun Corporation wish to express our fullest appreciation on your new purchase. With you in mind, our skilled craftsmen have designed and assembled the finest lift available.

This manual includes safety precautions, lift operating instructions, manual operating instructions, and instructions for maintenance and lubrication procedures.

Your lift is built for dependability, and will bring you years of pleasure and independence, as long as maintenance is performed regularly and the lift is operated by an instructed person.

Sincerely,

THE BRAUN CORPORATION

A handwritten signature in black ink that reads "Ralph W. Braun". The signature is written in a cursive style with a large, sweeping "B" and "R".

Ralph W. Braun
Chief Executive Officer

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Lift Operating Instructions

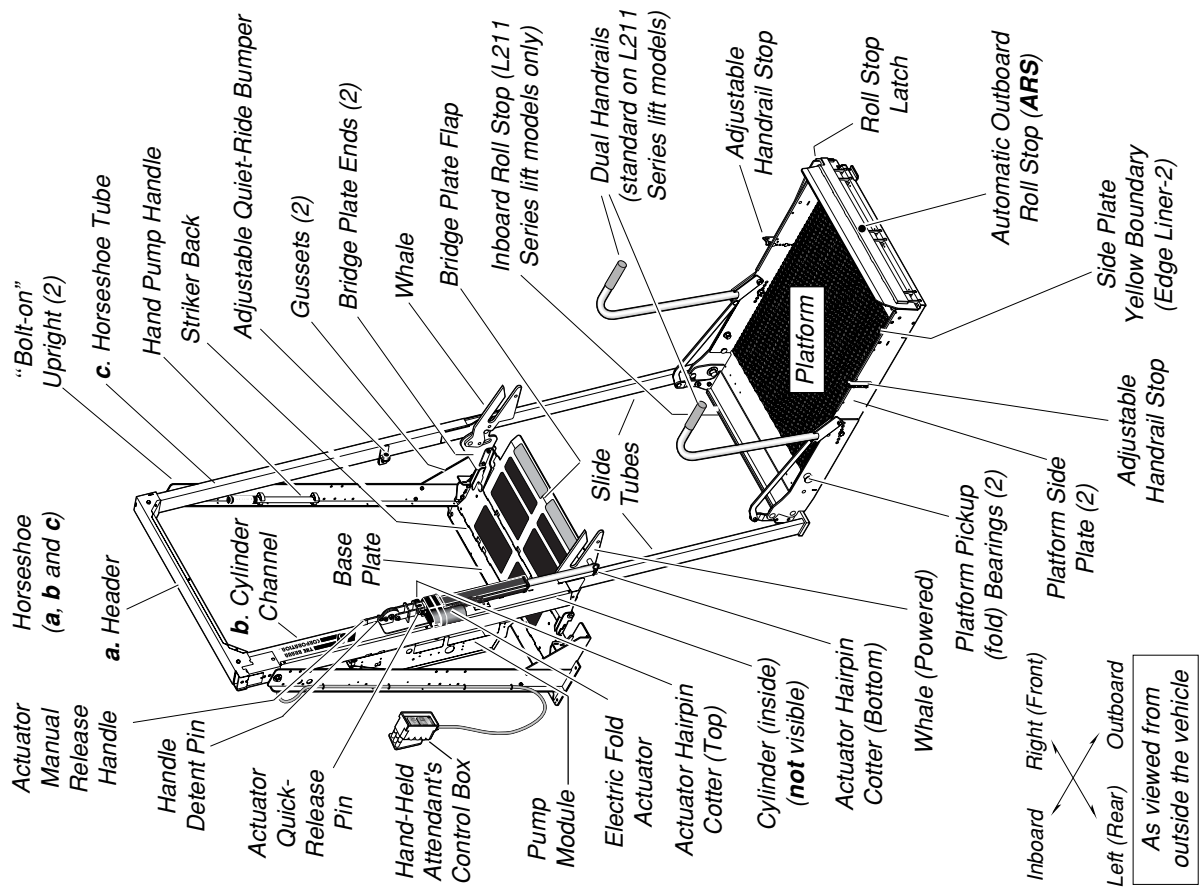
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Lift Terminology Illustration



Lift Terminology

Introduction

L200UARS Series lifts are commercial oriented (intended for operation by an attendant). The L200UARS Lift Series includes many standard lift models that vary in height and width. A standard L211UARS Series lift model is depicted in the Lift Terminology Illustration. Lift model numbers indicate lift dimensions. Model numbers of special order (nonstandard) lifts include other identification information exclusive to specific applications.

Lift operation procedures are the same for all L200UARS Series lift models. The operating instructions contained in this manual and posted on the lift address the

lift control switches and the corresponding lift functions only. Instructions are provided for manual operation of the lift in event of power or equipment failure.

L200UARS Series lifts are installed in various types of transit vehicles with varying lift access door configurations. The attendant must become familiar with the proper operation of the lift as well as the vehicle lift door system and the lift interlock system (if equipped). It is the responsibility of the lift operator (attendant) to properly open, secure and close the vehicle lift door(s), to activate the lift interlock (if equipped), to load and unload the wheelchair passenger (or standee) on and off the

platform, and to properly activate all lift functions.

Terminology: Become familiar with the terminology that will be used throughout this manual. Become familiar with the identification of lift components and their functions. Contact your lift sales representative or call The Braun Corporation at 1-800-THE LIFT if any of this information is not fully understood.

Direction: The terms "left (rear)," "right (front)," "inboard," and "outboard" will be used throughout this manual to indicate direction (as viewed from outside the vehicle looking directly at the lift). Refer to the Lift Terminology Illustrations for clarification of direction terms.

Lift Terminology

Lift Components

Refer to the Lift Terminology Illustration on page 2.

Lift Frame (Base Plate and Upright Assembly): The main lift frame consists of the base plate weldment (with two gussets), two bolt-on uprights, the striker back assembly, the bridge plate flap and two folding whales. The base plate and upright assembly supports the horseshoe and platform assembly. The rod end (bottom) of the electric fold actuator is mounted to the left side (rear) whale.

Bridge Plate: The bridge plate assembly consists of the striker back and the bridge plate flap. The independent hinged bridge

plate flap bridges the gap between the lift platform and the vehicle floor when the platform is positioned at floor level.

The bridge plate travels from the stowed position to the bridging (horizontal) position as the lift platform unfolds and vice versa. Photos and further details regarding operation of the bridge plate are provided in the Pre-Lift Operation Notes section (page 16).

Whales: L200UARS Series lifts are equipped with two folding whales. The jaws of the whales engage the platform pickup bearings to fold and unfold the platform (one bearing located on each side of the platform). The rod end (bottom) of the electric fold actuator is mounted to the left

(rear) whale to power the fold and unfold functions. The right side (front) whale and bearing keep the lift in alignment (unison).

Horseshoe: The lift horseshoe is the U-shaped metal frame consisting of the header (top crossmember), the cylinder channel on the left and the horseshoe tube on the right. The horseshoe contains and protects the platform slide tube assembly, the hydraulic cylinder and the lifting chain assemblies. The pump module is mounted to the inboard face of the cylinder channel. The motor end (top) of the electric fold actuator is mounted to the outboard face of the cylinder channel. The horseshoe pivots on two shoulder bolts as the lift unfolds and folds.

Lift Terminology

Pump Module: The lift-mounted pump module consists of the hydraulic pump, the manual hand pump and electrical components that power the lift electric/hydraulic systems.

Hand-held Control Switchbox: The hand-held control switchbox is connected to the pump module. The control box is equipped with two color-coded rocker switches labeled UNFOLD (Out), FOLD (In), UP and DOWN. The switches activate the powered lift functions. Details regarding the control switches and their functions are provided in the Pre-Lift Operation Notes section (page 14).

Fold Actuator: The electric motor-driven actuator unfolds

and folds the platform when the UNFOLD (Out)/FOLD (In) switch is activated. The platform must be in the fully-raised position before the platform can be unfolded or folded. Further details in the Pre-Lift operation section (pages 15 and 16).

Slide Tube Assembly: The slide tube assembly carries the platform assembly as it lowers and raises. The slide tube assembly consists of two telescoping slide tubes connected to chain assemblies that travel up and down inside the horseshoe, the bottom support crossbar and two platform mounting plates.

Platform Assembly: The lift platform carries the wheelchair passenger (or standee) up and

down from ground level to the vehicle floor. The lift platform assembly consists of the frame with grating surface upon which the wheelchair is positioned, the inboard roll stop (L211UARS lift models), the outboard roll stop and the handrails (if equipped).

Dual Handrails: Dual handrails are provided for wheelchair passenger (or standee) use (standard on L211 Series lift models). The handrails are mounted on the platform and pivot as the lift unfolds and folds.

Outboard Roll Stop: The outboard roll stop is the automatic chain-driven outer barrier that provides a ramp for wheelchair loading and unloading at ground level. Photos and further

Lift Terminology

Lift Components (continued)

details regarding the outboard roll stop are provided in the Pre-Lift Operation Notes section (pages 17-20).

Roll Stop Latch: The spring-loaded latch locks the outboard roll stop in the vertical position when the platform raises above ground level.

Inboard Roll Stop: L211UARS platforms are equipped with a fixed inboard roll stop. Attendant operation is not required for operation.

Manual Operation Systems: Manual operation systems are provided for use in event of power or equipment failure.

L200UARS Series lifts are equipped with an “over-center” fold actuator manual release system to allow the lift platform to be manually unfolded and folded. A manual back-up hand pump is built into the pump module. The lift platform can be lowered and raised using the hand pump. Complete details and manual operating procedures are provided on pages 31-40.

Lift Actions and Functions

UNFOLD (Out) - Platform Unfold: Unfold is the action of the platform rotating out and down from the fully-stowed (vertical) position to the fully-unfolded (horizontal) position when the UNFOLD (Out) switch is pressed.

DOWN - Platform Lower: Down is the action of the platform lowering when the DOWN switch is pressed. When the platform is unfolded from the stow position, the platform must be lowered from the fully-raised position to the floor level position when unloading a passenger at floor level. The lift operator (attendant) must stop the platform at floor level (release DOWN switch). The platform is then lowered to ground level (fully-lowered) to unload and/or load passengers.

DOWN - Roll Stop Unfold (Deploy): When the platform reaches the fully-lowered (ground level) position and the DOWN switch is continually pressed, the outboard roll stop rotates down

Lift Terminology

ward from the vertical position to the ramp position.

UP - Roll Stop Fold (Raise):

When the platform is fully-lowered and the roll stop is in the ramp position, pressing the UP switch first rotates the roll stop upward from the ramp position to the vertical position.

UP - Platform Raise: Up is the action of the platform raising when the UP switch is pressed. The platform must be raised to and stopped at floor level when a wheelchair passenger (or standee) is entering or exiting the vehicle. The platform then must be raised fully (above floor level)

before the lift can be folded (stowed).

Stow Position: The lift is stowed when the platform has been fully raised and platform has been folded fully (vertical position).

Floor Level: Floor level is the position (height) the platform must be positioned in order for the wheelchair passenger (or standee) to enter and exit the vehicle. The platform must be positioned such that there is a smooth and level transition between the platform, bridge plate and vehicle floor. The platform must be positioned (lowered or raised), and stopped at floor level by the lift operator

(attendant).

Deploy: Lift deployment is the action of the platform unfolding, the platform lowering to ground level and the outboard roll stop unfolding to the ramp position.

Stow: Stow is the action of the outboard roll stop folding (raising) to the vertical position, the platform raising to the fully-raised position and the platform folding to the stowed (vertical) position.

Note: Further details regarding lift control switches and the corresponding lift functions are provided in the Pre-Lift Operating Notes section.

Lift Operation Safety

Safety Symbols

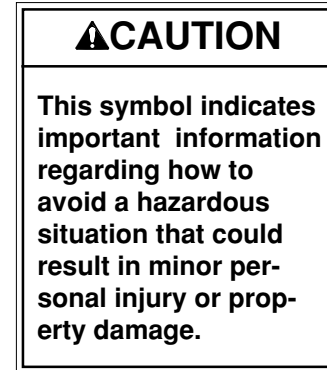
SAFETY FIRST! Know That...

A All information contained in this manual and supplements (if included), is provided for your safety. Familiarity with proper operation instructions as well as proper maintenance procedures are necessary to ensure safe, troublefree operation. Safety precautions are provided to identify potentially hazardous situations and provide instruction on how to avoid them.

B



C



D **Note:** Additional information provided to help clarify or detail a specific subject.

These symbols will appear throughout this manual as well as on the labels posted on your lift. **Recognize the seriousness of this information.**

Lift Operation Safety

Lift Operation Safety Precautions

- ⚠WARNING** Read manual and supplement(s) before operating lift. Read and become familiar with all safety precautions, pre-lift operation notes and details, operating instructions and manual operating instructions before operating the lift.
- ⚠WARNING** Load and unload on level surface only.
- ⚠WARNING** Engage vehicle parking brake before operating lift.
- ⚠WARNING** Provide adequate clearance outside the vehicle to accommodate the lift before opening lift door(s) or operating lift.
- ⚠WARNING** Load and unload clear of vehicular traffic.
- ⚠WARNING** Open lift door(s) fully and secure before operating lift.
- ⚠WARNING** Inspect lift before operation. Do not operate lift if you suspect lift damage, wear or any abnormal condition.
- ⚠WARNING** Keep operator and bystanders clear of area in which the lift operates.
- ⚠WARNING** Lift attendants must ensure that lift occupants keep hands, arms and all other body parts within the lift occupant area and clear of moving parts.

Lift Operation Safety

Lift Operation Safety Precautions (continued)

- ▲WARNING** Platform must be positioned at floor level (bridge plate height) when loading or unloading in and out of vehicle.
- ▲WARNING** The wheelchair-equipped torso restraint belt must be properly positioned and engaged before loading onto the wheelchair lift platform.
- ▲WARNING** Do not use the outboard roll stop as a barrier (brake). Stop and brake wheelchair when loading onto the platform (manually stop and brake manual wheelchairs — stop powered wheelchairs with the wheelchair controls).
- ▲WARNING** Turn powered (electric) wheelchairs off when on lift platform.
- ▲WARNING** Press the DOWN switch until the entire platform rests on ground level (lowered fully) and the outboard roll stop is fully unfolded (ramp position) before loading or unloading a passenger at ground level.
- ▲WARNING** Outboard platform roll stop must be fully unfolded (ramp position) until the entire wheelchair (or standee) crosses roll stop when loading or unloading at ground level.
- ▲WARNING** Do not overload or abuse. The load rating applies to both the raising and lowering functions - continuous lifting capacity is 800 lbs.
- ▲WARNING** Do not operate or board your lift if you or your lift operator are intoxicated.

Lift Operation Safety

- ⚠WARNING** Whenever a wheelchair passenger (or standee) is on the platform, the:
- Passenger must be positioned fully inside yellow boundaries
 - Wheelchair brakes must be locked
 - Roll stop(s) must be UP
 - Roll stop latch must be fully engaged
 - Passenger must grip both handrails (if able)
- ⚠WARNING** Passenger must lower head to clear door jamb header when loading or unloading at vehicle floor level.
- ⚠WARNING** Platform must be fully UP before pressing FOLD/UNFOLD (In/Out) switch.
- ⚠WARNING** Accidental activation of control switch(es) may cause unintended operation(s).
- ⚠WARNING** When performing manual unfold procedures, have an assistant support the platform before pulling actuator quick-release pin.
- ⚠WARNING** Maintenance and lubrication procedures must be performed as specified in this manual by authorized (certified) service personnel.

Lift Operation Safety

Lift Operation Safety Precautions (continued)

- ▲WARNING** Replace missing, worn or illegible decals.
- ▲WARNING** Keep this lift operator's manual in lift-mounted manual storage pouch when not in use.
- ▲WARNING** Never modify (alter) a Braun Corporation lift.
- ▲WARNING** Do not use accessory devices not authorized by The Braun Corporation.
- ▲WARNING** Do not remove any guards or covers.
- ▲WARNING** Keep clear of any hydraulic leak.
- ▲WARNING** Failure to follow these safety precautions may result in serious bodily injury and/or property damage.

Pre-Lift Operation Notes and Details

⚠ WARNING

Read and become familiar with all lift operation safety precautions, pre-lift operation notes and details, operating instructions and manual operating instructions prior to operating the lift. If this information is not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

L200UARS Series lift models are specifically designed to be operated by an attendant. The Lift Operating Instructions contained in this manual and posted on the lift provide instructions for operation of the lift **only**. Read and become familiar with all lift operation safety precautions, pre-lift operation notes and details, operating instructions and manual operating instructions before attempting lift operation procedures.

Lift Access Doors and Lift Interlocks: Attendants **must** become familiar with the vehicle lift access door system and the interlock system (if equipped), as well as the proper operation of the lift. Transit vehicles and lift access door configurations vary.

Door securement devices (latches, hooks, cables, etc.) and procedures to operate them vary as well.

Lift interlocks are required by nearly all transit authorities. Instructions for operation of interlocks and door securement systems cannot be addressed in this manual or on lift-posted operating instructions decals due to the variety of procedures required for operating them.

It is the responsibility of the lift operator (attendant) to properly open, secure and close the vehicle lift door(s), to activate the lift interlock (if equipped), to load and unload the wheelchair passenger (or standee) on and off the lift platform, and to properly

Pre-Lift Operation Notes and Details

activate all lift functions.

General Safety: The lift operator (attendant) and bystanders must

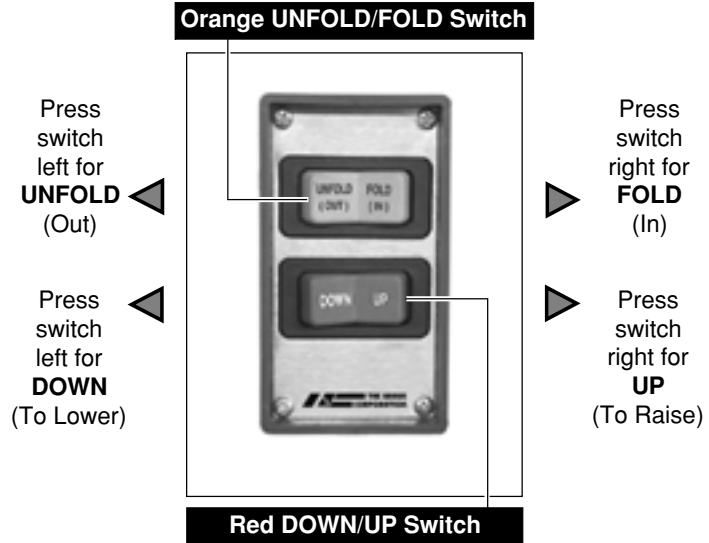
keep clear of the area in which the lift operates and clear of all moving parts. Lift attendants must ensure that lift occupants

(passengers) keep hands, arms and all other body parts within the lift occupant area and clear of moving parts.

Lift Control Switches

The hand-held attendant's control box provides an orange UNFOLD/FOLD (Out/In) switch and a red DOWN/UP switch. The control switches are color-coded to correspond to the color coding and switch function labels that appear on the lift-posted operating instructions decal.

Triangular-shaped color-coded symbols (▶) appear on the lift operating instructions decal. The color of the symbol corresponds to the color of the corresponding switch. The direction (point) of the symbol corresponds with the direction the switch should be activated (pressed) to produce the intended lift function.



Pre-Lift Operation Notes and Details

Lift Features

Become familiar with all lift features and the proper operation of the lift components **before** attempting lift operation. Refer to the Lift Terminology Illustration on page 2 for identification of specific lift components if not clearly depicted in this section. Contact The Braun Corporation at 1-800-THE LIFT immediately if any of this information is not understood.

Unfold and Fold: Series **05** lift models are equipped with electric fold actuators that feature a built-in overload clutch that slips (ratchets) when it reaches the end of its stroke (during unfolding and folding functions). The ratchet (audible clicking) signals the lift operator

that the platform has reached the fully unfolded position or the fully folded position.

When pressing the orange UNFOLD (Out) switch to unfold the platform from the stowed position, the lift operator **must continue to press the switch until the actuator ratchets (makes audible clicking)**. The clicking sound indicates the powered whale is fully unfolded (deployed). If the actuator does not ratchet, the whale has not reached the fully unfolded position and the **lift may be damaged** when lowering or raising the platform.

Note: The platform must be in

⚠ CAUTION

Press UNFOLD switch until actuator makes audible clicking sound (ratchets). Failure to do so may result in lift damage.

the fully raised position before the platform can be folded or unfolded. If the platform does not unfold when the UNFOLD switch is pressed or the platform does not fold when the FOLD switch is pressed, press the UP switch momentarily and try again.

Pre-Lift Operation Notes and Details

Lift Features (continued)

Before pressing the orange FOLD (In) switch to fold the platform to the stowed position, the lift operator **must** press the red UP switch to **be certain** the platform is in the **fully raised** position. The platform must be in the fully raised position before the platform can be folded.

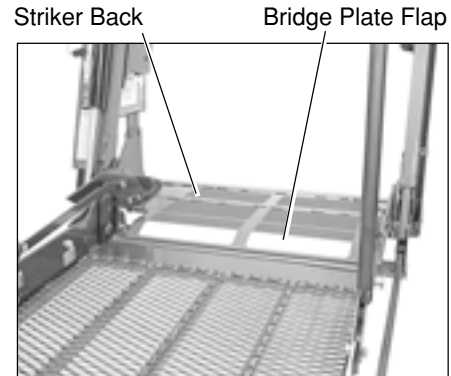
The lift operator should continue to press the orange FOLD (In) switch until the actuator ratchets (makes audible clicking) when folding the platform to the stowed position to **ensure** the lift is fully stowed.

Bridge Plate: The bridge plate assembly consists of the striker

back and the bridge plate flap. The independent hinged bridge plate flap bridges the gap between the lift platform and the vehicle floor when the platform is positioned at floor level, providing a surface for wheelchair (or standee) travel.

The bridge plate unfolds (rotates) from the stowed position to the bridging (horizontal) position as the lift platform unfolds and vice versa. The bridge plate flap rests on the platform when deployed (unfolded). **Read warning posted on opposite page. Discontinue lift operation immediately if the bridge plate does not operate properly.**

L200UARS Series lifts unfold and fold at a position above floor level (fully raised). The lift attendant (operator) must position (lower or raise), and stop the platform at vehicle floor level when a passenger is entering or exiting the vehicle. The platform must be properly positioned at a height such that



Pre-Lift Operation Notes and Details

there is a smooth (level) transition between the platform, the bridge plate assembly and the vehicle floor. See **Floor Level Positioning** on page 22.

Inboard Roll Stop: L211UARS Series lift platforms are equipped with a fixed 1" inboard roll stop (shown below). Attendant

operation is not required for this roll stop.

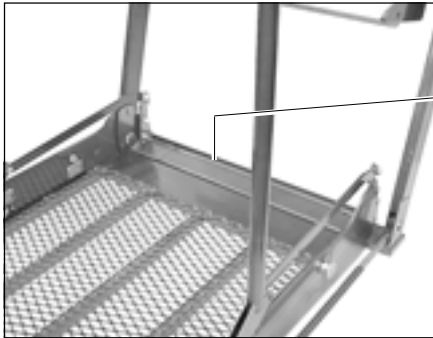
Automatic Outboard Roll

Stop: The automatic cylinder-powered chain-driven roll stop provides a ramp for wheelchair loading and unloading at ground level. When the platform lowers fully to ground level, the gas

spring automatically unfolds (rotates) the roll stop to the ramp position (**fully** unfolded).

Note: Outboard roll stop photos on following page.

Although the outboard roll stop is lift-powered, the activation of the roll stop is controlled by the lift operator (attendant). Press



Inboard Roll Stop

L211UARS Series
Lift Models **only**

⚠ WARNING

Discontinue lift use immediately if any lift component does not operate properly. Failure to do so may result in serious bodily injury and/or property damage.

Pre-Lift Operation Notes and Details

Lift Features (continued)

ing the DOWN switch deploys (unfolds) the roll stop. The roll stop is cylinder powered to automatically fold (rotate) to the vertical position when the UP switch is pressed (roll stop raises before platform raises). **Read warning posted on**

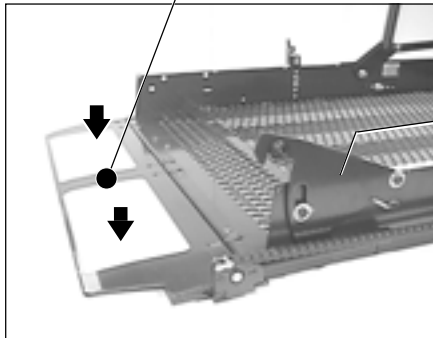
opposite page. Discontinue lift operation immediately if the roll stop does not operate properly.

Roll Stop Latch: A spring-loaded latch engages the outboard roll stop when the roll stop rotates upward from the ramp position to the vertical

position (UP switch is pressed to raise the platform above the ground). **Note:** The platform must raise approximately two inches **before** the latch engages **fully** (see photos below).

The latch disengages the roll stop when the platform lowers fully (reaches ground level) and

Fully Unfolded Roll Stop (Ramp position)



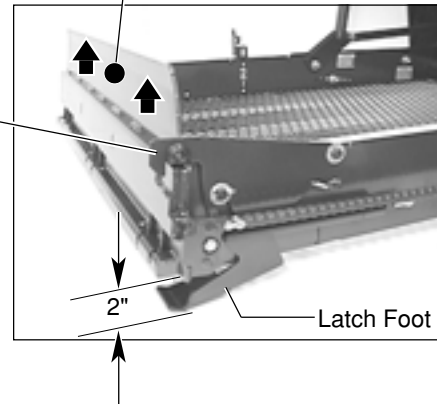
Outboard Roll Stop

Disengaged Roll Stop Latch

Fully Engaged Roll Stop Latch

Note: Platform must raise **approximately two inches before** latch engages **fully**.

Fully Folded Roll Stop (Up-vertical)



Pre-Lift Operation Notes and Details

the latch foot contacts the ground (latch raises above the roll stop).

Outboard Roll Stop and Roll Stop Latch Operation: The operator (attendant) must press the DOWN switch to lower the platform fully to the ground. The attendant **must view** the

platform as it lowers to **be certain the entire platform** reaches and rests safely on the ground (see photo below). **Stop** pressing the DOWN switch if any portion of the platform is obstructed while descending or the **entire** platform does not reach ground level **for any reason** (contact with an ob-

struction, mechanical failure, exceeding the lift “floor-to-ground” capacity, etc.).

After the platform is fully lowered (entire platform reaches ground level), the attendant should continue to press the



The attendant **must view** the platform as it lowers to **be certain the entire platform** reaches and rests safely on the ground.



Pre-Lift Operation Notes and Details

Lift Features (continued)

DOWN switch to unfold the outboard roll stop **fully** (ramp position). **Note:** The roll stop **must be fully unfolded** until the entire wheelchair (or standee) has crossed the roll stop when loading or unloading at ground level. **Discontinue lift opera-**

WARNING

Discontinue lift use immediately if any lift component does not operate properly. Failure to do so may result in serious bodily injury and/or property damage.

tion immediately if the roll stop or latch do not operate properly.

Handrails: Dual handrails are provided for wheelchair passenger (or standee) use (standard on L211UARS lift models). Passengers should grip both handrails when on the lift platform **if able**. **Discontinue lift operation if the handrails do not operate properly.**

Lift Passengers

If you are an attendant operating the lift, it is your responsibility to perform safe loading and unloading procedures. Wheelchair lift attendants should be instructed on any special needs and/or procedures required for safe

transport of wheelchair passengers.

The lift operator and bystanders must keep clear of the area in which the lift operates. Observe your passenger at all times during lift operation.

Do not attempt to load or unload a passenger in a wheelchair or other apparatus that does not fit on the platform area. Do not exceed the 800 pound load capacity of the lift. The lift attendant should not ride on the platform with the passenger.

Passenger Orientation (Boarding Direction): Braun L211UARS Series **ADA** wheelchair lifts **fully comply** with the ADA requirement that the lift accommodate **both** inboard and outboard facing

Pre-Lift Operation Notes and Details

wheelchair passengers **or** standees. Inboard facing of wheelchair lift passengers is **not prohibited**, but outboard facing of passengers is **recommended** by The Braun Corporation (all lift models).

Braun L211UARS Series **ADA** certified lifts permit both inboard and outboard facing of wheelchair and mobility aid users **and** accommodate persons using walkers, crutches, canes or braces or who otherwise have difficulty using steps **as specified** in Americans With Disabilities Act (ADA) Accessibility Specifications For Transportation Vehicles-Part 38.

Standees: Lift Operating Instructions apply to wheelchair passen-

gers and standees. Standees should stand in the center of the platform (**fully inside the yellow boundaries**) and grip both handrails (if able) when on platform (if so equipped).

Yellow Boundaries: The passenger **must** be positioned in the **center of the platform** to prevent side-to-side load imbalance. The lift attendant (operator) should not ride on the platform with the passenger.

Yellow platform loading boundaries are identified in the following manner. Yellow antiskid is affixed to the outboard roll stop and the outboard edge of the bridge plate flap (all lift models). Yellow plastic edge liner (u-molding) is positioned on both platform side plates (all lift

models). Yellow plastic edge liner (u-molding) is positioned on fixed inboard roll stops (L211UARS lift models only). Yellow antiskid is affixed to the inboard end of platforms that are not equipped with an inboard roll stop. L211UARS handrails have yellow grips.

The attendant must always be certain the wheelchair passenger or standee is properly positioned on the platform (**fully inside yellow boundaries**) and the wheelchair brakes are locked when a passenger is on the lift platform. Lift attendants must ensure that lift occupants (passengers) keep hands, arms and all other body parts within the lift occupant area and clear of all moving parts.

Pre-Lift Operation Notes and Details

Lift Passengers (continued)

Floor Level Positioning:

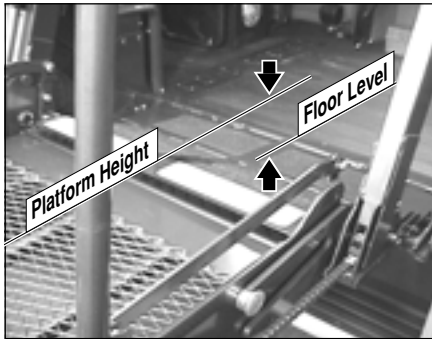
L200UARS series lifts unfold and fold at a position **above** floor level (fully-raised). See photo on left. The lift attendant (operator) **must position** (lower or raise), and **stop the platform at vehicle floor level** (bridge plate height)

when a passenger is entering or exiting the vehicle. See photos below. The platform must be properly positioned at a height such that there is a smooth (level) transition between the platform, the bridge plate assembly and the vehicle floor.

It is the responsibility of the lift

operator (attendant) to ensure the platform and the bridge plate are properly positioned at floor level when loading and unloading passengers.

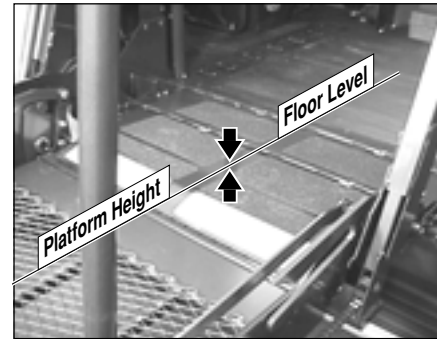
Vehicle (Floor Level) Loading and Unloading: The platform must be positioned at **floor level** as previously detailed when



Floor Level Positioning

◀ Fully Raised Platform Floor Level Platform ▶

The lift attendant (operator) **must position platform at vehicle floor level** when a passenger is entering or exiting the vehicle.



Pre-Lift Operation Notes and Details

loading or unloading passengers in or out of the vehicle.

WARNING

Whenever a passenger is on the platform, the:

- Passenger must be positioned fully inside yellow boundaries
- Wheelchair brakes must be locked
- Roll stop must be UP

Failure to follow these rules may result in serious bodily injury and/or property damage.

The wheelchair **brakes must be locked**, the outboard roll stop must be in the **fully up** (vertical) position and the roll stop latch must be **fully engaged whenever a passenger is on the platform.**

Do not use the outboard roll stop as a barrier (brake). Stop and brake the wheelchair when fully loaded on the platform. Manually stop and brake manual wheelchairs. Stop powered wheelchairs with the wheelchair controls. Turn powered (electric) wheelchairs off when on the platform.

If the roll stop, bridge plate, handrails or any other lift component does not operate as outlined in this manual, **discontinue lift**

use immediately and contact your Braun Corporation sales representative in your area or call The Braun Corporation at 1-800-THE LIFT. One of our national product support representatives will direct you to an authorized service technician who will inspect your lift.

WARNING

Discontinue lift use immediately if any lift component does not operate properly. Failure to do so may result in serious bodily injury and/or property damage.

Pre-Lift Operation Notes and Details

Wheelchair-Equipped Occupant Seat Belts

The Braun Corporation recommends wheelchair passengers

WARNING

Position and secure (buckle, engage, fasten, etc.) the wheelchair-equipped occupant seat belt before loading onto the wheelchair lift platform. Failure to do so may result in serious bodily injury and/or property damage.

position and buckle their wheelchair-equipped seat belt (torso restraint) **before** loading onto a wheelchair lift.

Different types of disabilities require different types of wheelchairs and different types of wheelchair-equipped occupant restraint belt systems (torso restraints). It is the responsibility of the wheelchair passenger to have his or her wheelchair equipped with an occupant restraint (seat belt) under the direction of their health care professional.

Wheelchair lift attendants should be instructed on any special needs and/or procedures required for safe transport of wheelchair passengers.

Operation Procedure Review

The Braun Corporation recommends that transit agency supervisors and wheelchair lift attendants review the safety precautions and operation procedures appearing in this manual and on lift-posted decals with your wheelchair lift sales representative (dealer), **before** attempting lift operation.

Any questions or concerns can be answered by the sales representative at that time. Operate the lift through all functions with your sales representative on hand to ensure the proper use and operation of the wheelchair lift is understood.

Pre-Lift Operation Notes and Details

Transit agency supervisors should train and educate lift attendants on the proper use and operation of the wheelchair lift if it is not possible for the attendants to review the safety precautions and operation procedures with the wheelchair lift sales representative.

This lift operator's **manual must be stored in the lift-mounted manual storage pouch when not in use.**

Preventive Maintenance:

Maintenance is necessary to ensure safe and troublefree lift operation. General preventive lift maintenance consisting of **careful** inspections of the lift system and cleaning the lift

should be a part of your transit agency's daily lift service program. Simple inspections can detect potential lift operational problems.

Regular preventive maintenance will reduce potential lift operation downtime and increase the service life of the lift, as well as possibly detecting potential hazards.

Exposure to harsh weather elements, environment conditions, or heavy usage, etc. may require more frequent maintenance and lubrication procedures.

Preventive maintenance visual inspections **do not** take the place of the procedures specified in the Maintenance and

Lubrication Schedule provided in the applicable lift installation and service manual. Refer to the Maintenance and Lubrication section in this manual for further details.

WARNING

Maintenance and lubrication procedures must be performed by authorized service personnel as specified in the applicable installation/service manual. Failure to do so may result in serious bodily injury and/or property damage.

Lift Operating Instructions

⚠️ WARNING

Read and become familiar with all lift operation safety precautions, pre-lift operation notes and details, operating instructions and manual operating instructions prior to operating the lift. If this information is not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

⚠️ WARNING

Whenever a passenger is on the platform, the:

- Passenger must be positioned fully inside yellow boundaries
- Wheelchair brakes must be locked
- Roll stop must be UP

Failure to follow these rules may result in serious bodily injury and/or property damage.

Before lift operation, park the vehicle on a level area, away from vehicular traffic. Place the vehicle transmission in "Park" and engage the parking brake.

Lift-posted Warnings and Lift Operating Instructions decal 25857 provides lift operating instructions. Be certain this decal is posted on the lift access door or in another highly visible location near the control box as well. Replace any missing, worn or illegible decals!

Follow the Manual Operating Instructions provided on pages 31-40 in event of power or equipment failure.

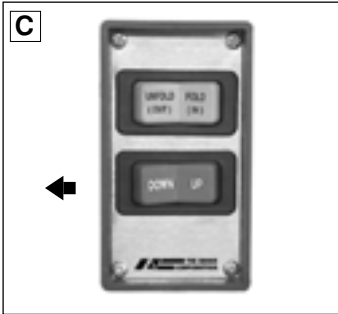
Lift Operating Instructions



Open Door(s) and Secure

To Unfold Platform (Out):

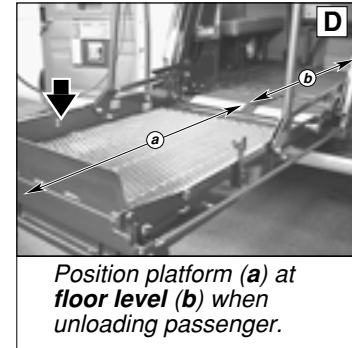
- ▶ **Stand clear** and press the orange UNFOLD (Out) switch until the platform stops (unfolds **fully** and **actuator ratchets** — makes clicking sound). Release switch.



To Unload Passenger:

- ▶ **1.** Press the red DOWN switch until the platform reaches **floor level** (bridge plate height). Release switch.

Note: See **Floor Level Positioning** on page 22 for further details.



Position platform (a) at floor level (b) when unloading passenger.

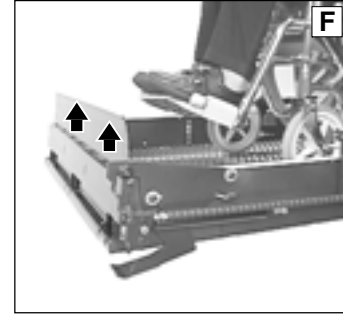
Lift Operating Instructions

To Unload Passenger (continued):

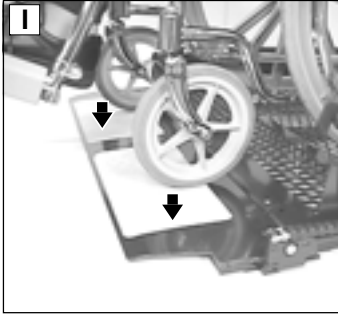
- ◀ 2. **Read notes below!** Load passenger onto platform and **lock** wheelchair brakes.

Note: Passenger **must** be positioned **fully inside yellow boundaries**, outboard roll stop **must** be UP and roll stop latch **must** be engaged. ▶

- ◀ 3. Press red DOWN switch until the **entire** platform reaches ground level (see Photo H) and the outboard roll stop **unfolds fully** (ramp position). See Photos I and J on next page. Release switch. ▶



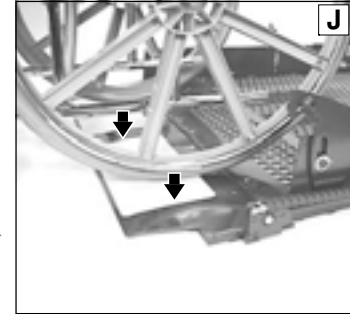
Lift Operating Instructions



To Unload Passenger (continued):

4. Unlock wheelchair brakes and unload passenger from platform.

Note: Roll stop **must** be **fully unfolded** (ramp position) until the entire wheelchair (or standee) has crossed the roll stop. See Photos I and J.

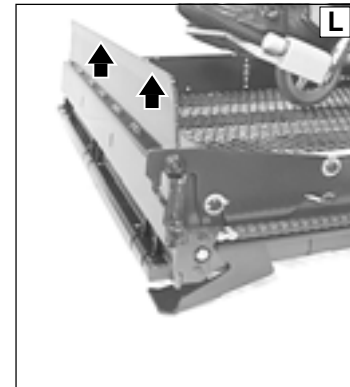


To Load Passenger:

1. **Read notes below!** Load passenger onto platform and **lock** wheelchair brakes. See Photo K.

Note: Roll stop **must** be **fully unfolded** (ramp position) until the entire wheelchair (or standee) has crossed the roll stop. See Photos I and J.

Note: Passenger **must** be positioned **fully inside yellow boundaries**.



Lift Operating Instructions



To Load Passenger (continued):

- ▶ 2. Press red UP switch (Photo M) to fold roll stop UP **fully** (vertical) and raise the platform to **floor level**. See Photo D on page 27 also. Release switch.
- ▶ 3. Unlock wheelchair brakes and unload passenger from platform.



To Fold Platform:

1. Press red UP switch until platform stops (**fully up**). See Photo M. Release switch.
- ▶ 2. Press orange FOLD switch until platform stops (**fully** folded and **actuator ratchets** - makes clicking sound).

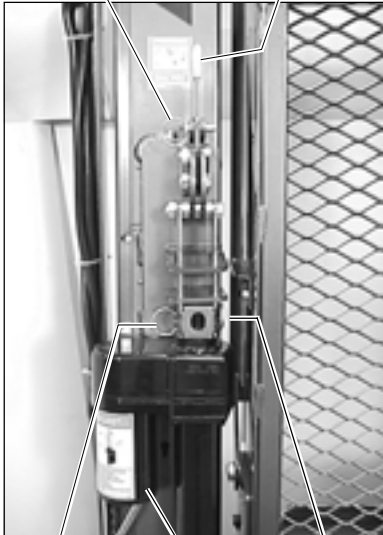
Close Door(s)



Manual Operating Instructions

Actuator Manual Release System

Handle Detent Pin Release Handle



Actuator Quick-release Pin Actuator Hairpin Cotter

L200UARS lift models are equipped with manual operation systems. Refer to the applicable Manual Operating Instructions to operate the lift if you experience power or equipment failure.

◀ An “over-center” fold actuator manual release system is provided to allow the platform to be manually unfolded or folded. Refer to Manual Unfold and Fold Instructions on pages 32-37.

A manual backup pump (hand pump) and pump handle are provided to manually lower and raise the platform and the outboard roll stop. Refer to Manual Up/Down (Backup Pump) Instructions on pages 38-40. ▶

Manual Backup Pump

Manual Backup Pump



Release Valve

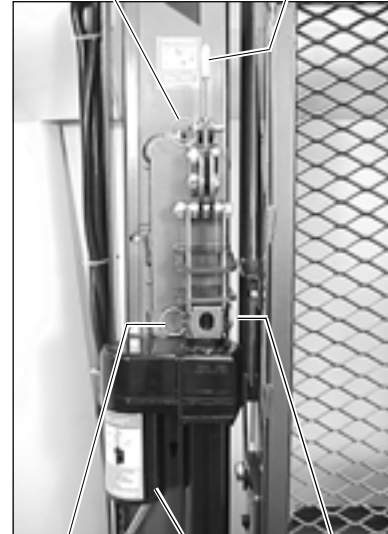
Manual Unfold and Fold Instructions

Manually unfold and fold the lift platform as outlined on pages 33-37. Manual unfold instructions are provided on decal 20620 also (posted on actuator). **Note:** Press the red UP switch until platform is raised fully and disconnect the actuator wiring harness **before** attempting manual unfold or fold procedures.

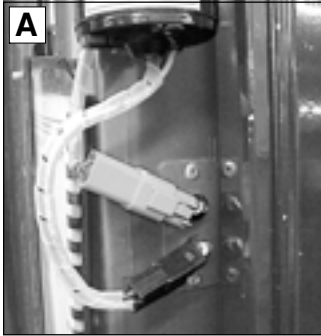
Note: L200UARS Series lift

platforms are heavy. It is recommended to have an assistant aid in performing manual unfold and fold procedures. The lift platform **can potentially free-fall** when the actuator quick-release pin is removed (if the platform is not manually supported). Have the assistant **support the platform before pulling the actuator quick-release pin** when manually unfolding the platform.

Handle Detent Pin Release Handle

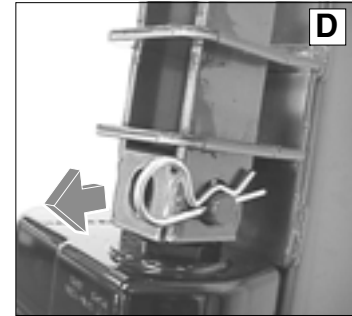
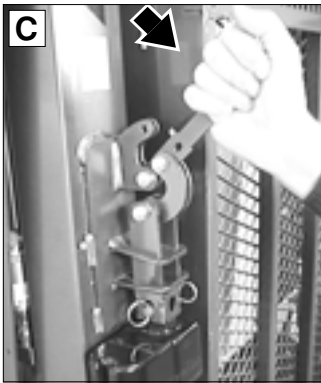
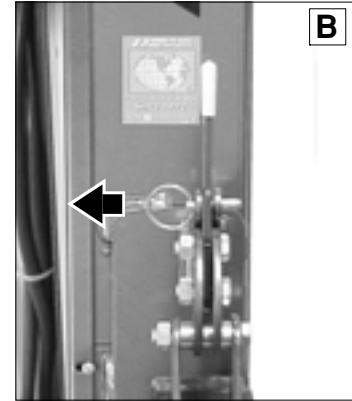


Manual Unfold and Fold Instructions

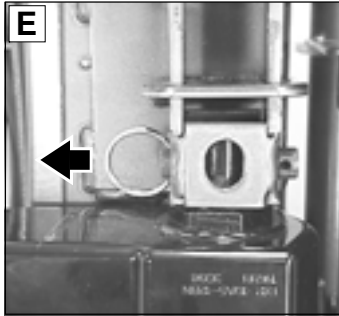


To Unfold Platform (Out):

1. **Carefully** disconnect actuator wiring harness black connectors. Lift locking tab and disconnect sockets. See Photo A.
2. Pull to remove detent pin from release handle (Photo B).
3. Pull handle down (Photo C).
4. Pull to remove hairpin cotter from actuator quick-release pin (Photo D).



Manual Unfold and Fold Instructions



To Unfold (Out) continued:

5. **Note:** It is recommended to have an assistant aid in performing this step. The lift platform **can free-fall** when the actuator quick-release pin is removed (if the platform is not manually supported). Have an assistant **support the platform before pulling the actuator quick-release pin.**

WARNING

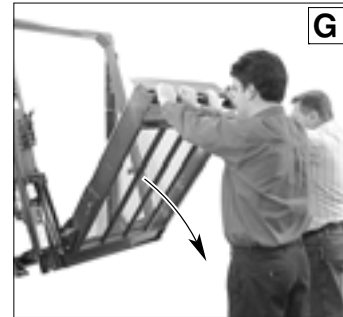
Support platform before pulling actuator quick-release pin. Failure to do so may result in serious bodily injury and/or property damage.



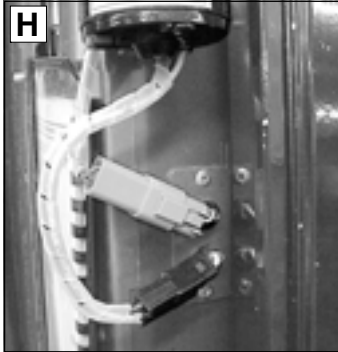
Have an assistant support the platform and pull to remove actuator quick-release pin (Photos E and F).

Note: If so desired, remove actuator by following Steps 6 and 7 of “To Fold Platform (In)” procedures on pages 36 and 37.

6. **Carefully** unfold platform manually. ▶ See Photo G.



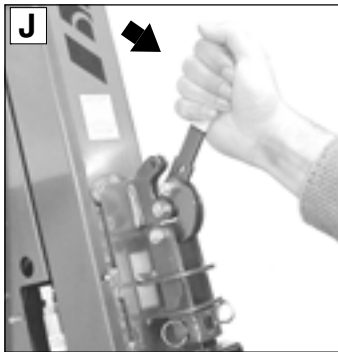
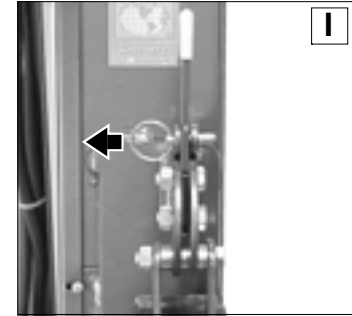
Manual Unfold and Fold Instructions



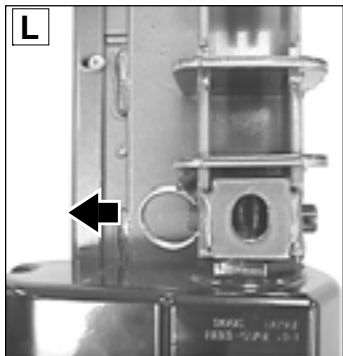
To Fold Platform (In)

With lift platform in the fully raised position:

1. **Carefully** disconnect actuator wiring harness black connectors. Lift locking tab and disconnect sockets. See Photo H.
2. Pull to remove detent pin from release handle (Photo I).
3. Pull handle down (Photo J).
4. Pull to remove hairpin cotter from actuator quick-release pin. See Photo K.



Manual Unfold and Fold Instructions



To Fold Platform (In) continued:

- ◀ 5. Pull to remove actuator quick-release pin. See Photo L.

Note: Lift slightly on **outboard** end of platform to relieve pressure on quick-release pin (**if necessary**).

6. Remove hairpin cotter from bottom actuator pin (whale pin). See Photo M. ▶



Manual Unfold and Fold Instructions



To Fold Platform (In) continued:

- ◀ 7. Remove actuator and store.
See Photo N.
- a. Bottom: Pull away from platform to remove from bottom actuator pin (whale pin).
 - b. Top: Pull top of actuator down to remove from mounting brackets.
8. **Carefully** fold platform manually. **Secure platform** so that it does not rest against the closed vehicle doors. **Failure to do so may cause property damage.** See Photo O.

Close Door(s).



Manual Up/Down (Backup Pump) Instructions

A manual backup pump (hand pump) and pump handle are provided to manually lower and

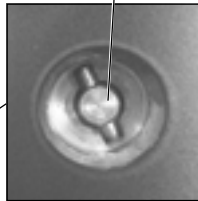
raise the platform and the out-board roll stop. Manual Instructions decal 18118 (posted on

pump side tower) provides manual up and down instructions also.

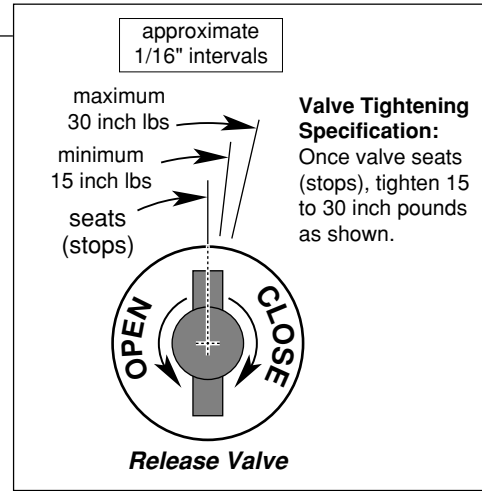
Manual Backup Pump



Release Valve



Note: Close backup pump release valve securely **before** operating electric pump.



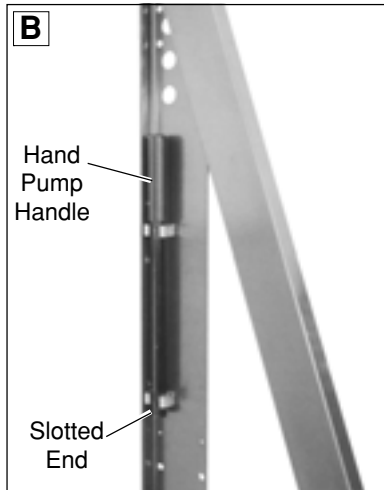
Manual Up/Down (Backup Pump) Instructions

Refer to photos and illustration of release valve on previous page.

DOWN • To Lower Platform:
• To Unfold Roll Stop:

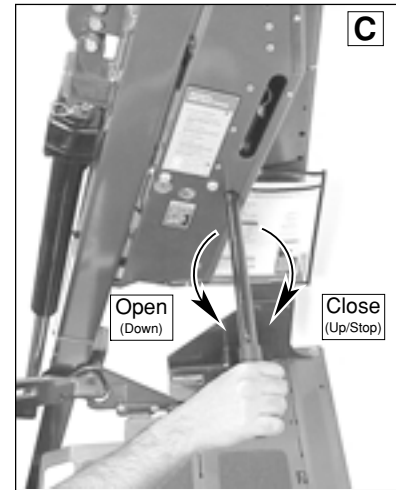
Note: Close backup pump release valve securely **before** operating electric pump.

Using hand pump handle (Photo B):



- Place slotted end of pump handle onto backup pump release valve and turn **counterclockwise** (open — 1/2 turn only) until the platform reaches desired height and/or roll stop unfolds.
- Turn release valve **clockwise** (close) to stop platform.

Note: Valve must be tight, but **do not** overtighten.



Manual Up/Down (Backup Pump) Instructions

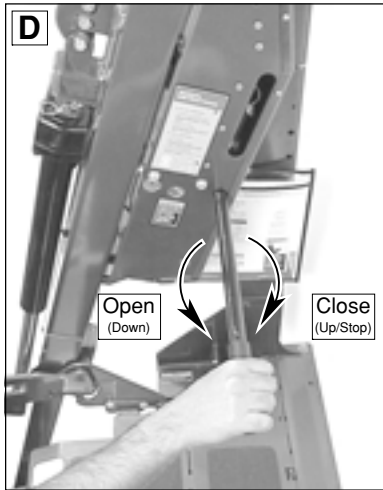
Refer to photos and illustration of release valve on page 30.

UP

- To Fold Roll Stop:
- To Raise Platform:

Note: Close backup pump release valve securely **before** operating electric pump.

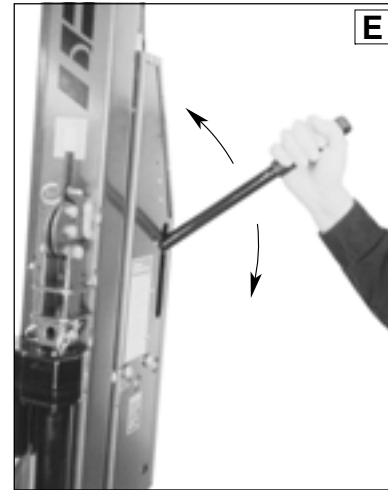
Using hand pump handle:



- Place the slotted end of pump handle onto the back-up pump release valve and turn **clockwise** to close securely. See Photo D.

Note: Valve must be tight, but **do not** overtighten.

- Insert handle into backup pump and stroke until roll stop folds and/or platform reaches desired height. See Photo E.



Decals and Antiskid

⚠ WARNING

Replace missing, worn or illegible decals. Failure to do so may result in serious bodily injury and/or property damage.

Note: Clean surfaces with isopropyl alcohol before decal or antiskid application. Use a clean cloth or paper towels. **Do not** use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.


See Decals on page 42 also.

Decals

The lift is only as safe as the operator. Replace any missing, worn or illegible decals! Part numbers are provided for decals. Inspect your lift for missing, worn or illegible decals. Call 1-800-THE LIFT for replacements.

25674

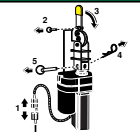
⚠ WARNING



Read manual before operating lift. Call 1-800-THE LIFT to receive operator's manual. Failure to do so may result in serious bodily injury and/or property damage. Keep manual in lift pouch.

20620

MANUAL UNFOLD INSTRUCTIONS



1. Disconnect black connectors.
2. Pull detent pin from handle.
3. Pull handle down.
4. Remove hairpin cotter.
5. Support platform and pull actuator pin.
6. Unfold platform.

Note: Read manual for FOLD (IN) procedure.

25857

⚠ WARNING

- Read manual before operating lift.
- Load and unload on level surface only.
- Engage vehicle brake before operating lift.
- Provide adequate clearance outside of vehicle to accommodate lift.
- Do not operate lift if you suspect lift damage, wear or any abnormal condition.
- Keep operator and bystanders clear of area in which lift operates.

Whenever a wheelchair passenger is on the platform, the:

- Passenger must be positioned fully inside yellow boundaries
- Wheelchair brakes must be locked
- Roll stop(s) must be up

Failure to follow these rules may result in serious bodily injury and/or property damage.

LIFT OPERATING INSTRUCTIONS

OPEN DOOR(S) AND SECURE

TO UNFOLD PLATFORM:

Stand clear and press «UNFOLD switch until platform stops (reaches floor level).

TO UNLOAD PASSENGER:

1. Load passenger onto platform and lock wheelchair brakes.
2. Press «DOWN switch until the entire platform reaches ground level. Release switch.
3. Press «DOWN switch until roll stop unfolds fully.
4. Unlock wheelchair brakes and unload passenger from platform.

TO LOAD PASSENGER:

1. Load passenger onto platform and lock wheelchair brakes.
2. Press «UP switch to fold roll stop fully. Release switch.
3. Press »UP switch until platform stops (reaches floor level). Release switch.
4. Unlock wheelchair brakes and unload passenger from platform.

TO FOLD PLATFORM:

Press »FOLD switch until platform stops. Release switch.

CLOSE DOOR(S)

19342

OPERATING INSTRUCTIONS

Read warnings and operate lift as outlined on LIFT OPERATING INSTRUCTIONS decal. Lift operating instructions apply to wheelchair passengers and standees.

Staircase Instructions: Standees must stand at center of platform fully inside yellow boundaries, grip handrails and lower hand to clear door jamb header.

Interlock Instructions: Lift Interlocks vary in type and operation. Interlock (if equipped) must be operated as instructed by transit authority.

18118

MANUAL INSTRUCTIONS

HAND PUMP →

TO UNLOAD PASSENGER:

1. TO UNFOLD PLATFORM (OUT):

Follow the MANUAL UNFOLD INSTRUCTIONS posted on the fold actuator.

2. DOWN (TO LOWER):

Use hand pump handle to open (turn) hand pump valve counterclockwise (open 1/2 turn only).

TO LOAD PASSENGER:


1. UP (TO RAISE):

Using hand pump handle:

- a. Close hand pump valve clockwise.
- b. Insert handle in pump and stroke.

2. TO FOLD PLATFORM (IN):

Removal of actuator is required. Read manual for details.



HAND PUMP VALVE →

Close valve before operating electric pump.

Decals and Antiskid

⚠ WARNING

Replace missing, worn or illegible decals. Failure to do so may result in serious bodily injury and/or property damage.

Note: Clean surfaces as detailed on opposite page before posting decals.

See Decals on page 41 also.

25675

⚠ WARNING

Lift installation and servicing prohibited by anyone who has not been certified by The Braun Corporation Sales and Service School. Certified service technicians should call 1-800-THE LIFT to receive applicable installation/service manual. Failure to follow this policy may result in serious bodily injury and/or property damage.

25948



⚠ WARNING

Support platform before pulling quick-release pin.

16735

⚠ WARNING

Do not use this hole for lift adjustment. Failure to follow this instruction may result in serious bodily injury and/or property damage.

15707

⚠ WARNING

Discard flanged platform lock nuts if removed or damaged. Do not reuse! Replace with nuts provided in lift installation parts package. Failure to do so may result in serious bodily injury and/or property damage. See owner's manual for instructions.

22249

⚠ WARNING

Contact The Braun Corporation before adjusting hydraulic pressure relief valve. Failure to do so may result in serious bodily injury and/or property damage.

Decals

12375



Parking Courtesy Requested

THE BRAUN CORPORATION
Providing Access to the World

25652



Since 1972
ADA CONFORMANCE

24668

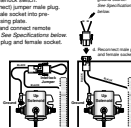
The Braun Corporation certifies that this wheelchair lift conforms to all applicable requirements of the National Standards for School Buses in effect at the time of its manufacture.

17309

NOTICE
Lift Interlock and Instructions located behind this panel

Interlock Installation Instructions

- Note: Terminal connected to LP actuated mounting and provides ground source for lift controls.
- To connect remote interlock switch:
 - Remove interlock jumper male plug.
 - Strip plastic female socket into pre-grounded top housing plate.
 - Cut jumper wire and connect remote interlock switch.
 - Reconnect male plug and female socket.
- With lift unpowered, test all lift functions to ensure proper interlock installation. Switch interlock switch opened and closed.



Specifications

To terminal: Connector Distance to Interlock Switch 5 feet or less

Preload: Cut Jumper Connector *Use 1/2 gauge wire (black preferred)

To terminal: Connector Distance to Interlock Switch Now Max 5 feet

Preload: Jumper Connector *Use 1/2 gauge wire (black preferred)

Note: Failure to use proper wire gauges may cause slow FOLD operation.

17866

THE BRAUN CORPORATION

Decals and Antiskid



Inspect your lift for any missing or worn antiskid. Order as needed.

Note: Clean surfaces with isopropyl alcohol before decal or antiskid application. Use a clean cloth or paper towels. **Do not** use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.

Antiskid

Antiskid		
Size	Color	Part No.
2" x 12"	Black	#24172-BK
2" x 12"	Yellow	#24172-YL
3" x 12"	Black	#24173-BK
3" x 12"	Yellow	#24173-YL
6" x 12"	Black	#24174-BK
6" x 12"	Yellow	#24174-YL

Maintenance and Lubrication

Maintenance is necessary to ensure safe and troublefree lift operation. General preventive maintenance consisting of inspections of your lift system and cleaning the lift should be a part of your routine.

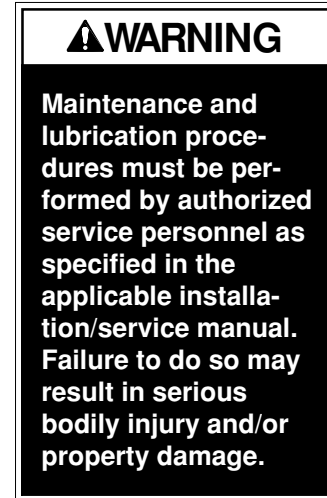
L200UARS Series lifts are designed with many self-lubricating components. Lubricate the pivot points specified on opposite page approximately every four weeks (or 100 cycles) with a light penetrating type oil (30 weight or equivalent). Severe conditions (weather, environment, heavy usage, etc.) may require more frequent lubrication.

Preventive maintenance visual inspections and lubrication procedures **do not** take the place

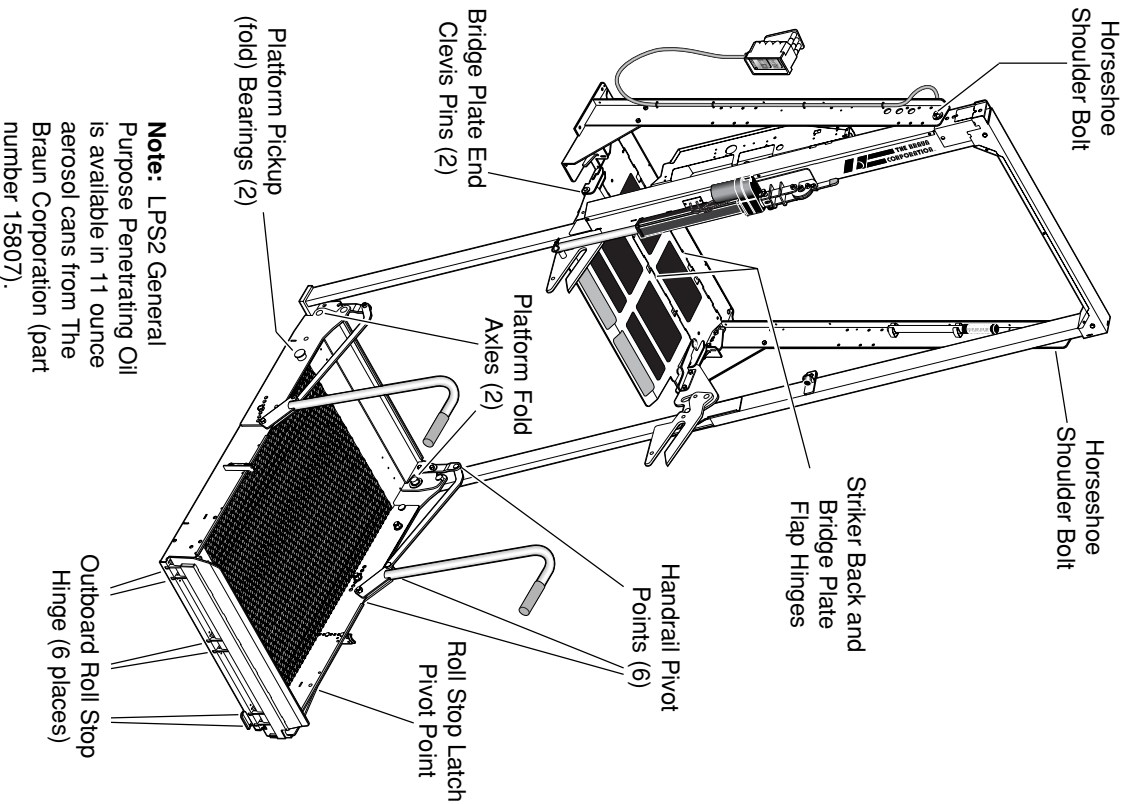
of the procedures specified in the Maintenance and Lubrication Schedule provided in the applicable lift installation and service manual. The procedures outlined in the Maintenance and Lubrication Schedule **must be performed at the recommended scheduled intervals by an authorized Braun Corporation service representative who has attended and been certified by The Braun Corporation Sales and Service School.**

If the scheduled maintenance and lubrication procedures are not being performed, or if there is any sign of lift damage, wear, abnormal condition or improper operation, **discontinue lift use immediately.** Contact your sales representative or call The Braun

Corporation at 1-800-THE LIFT. One of our national product support representatives will direct you to an authorized service repairman who will inspect your lift.



Lubrication Diagram



Warranty and Registration Instructions

Immediately upon receiving your lift, examine the unit for any damage. Notify the carrier at once with any claims.

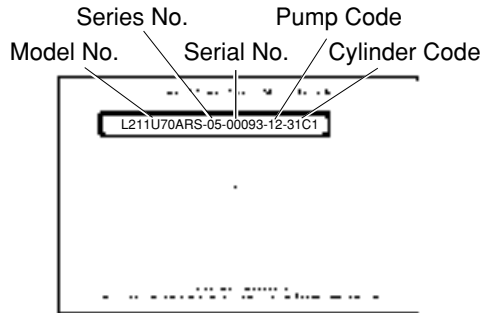
Two warranty/registration cards (shown below) are located in the lift-mounted owner's manual storage pouch. The sales representative must process one of the cards. The con-

sumer must fill out the other card and mail it to The Braun Corporation. The warranty is provided on the back cover of this manual. The **warranty cards must be processed to activate the warranty.**

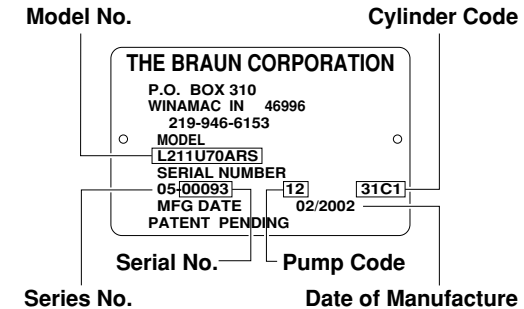
The Braun Serial No./Series No. identification tag (shown below) is located on the opposite pump

side upright. This I.D. tag contains the product identification information provided on the Warranty/Registration card. Record the information in the space provided on the following page (or document on a copy).

This information must be provided when filing a warranty claim or ordering parts.



Sample Warranty/Registration Card



Sample Serial No./Series No. Identification Tag

Warranty and Registration Instructions

Model No. _____ Pump Code _____

Series No. _____ Cylinder Code _____

Serial No. _____ Date of Manufacture _____

Note: Retain this information for future use. You must have this information when filing a warranty claim or ordering

"Providing Access to the World"®



L200UARS **Ultra** Series 05

Braun "Worry-Free" Three-Year Limited Warranty

The Braun Corporation of Winamac, Indiana, warrants its wheelchair lift against defects in material and workmanship for three years, providing the lift is operated and maintained properly and in conformity with this manual. This warranty is limited to the original purchaser and does not cover defects in the motor vehicle on which it is installed, or defects in the lift caused by a defect in any part of the motor vehicle.

This warranty commences on the date the lift is put in service, providing the warranty registration card is completed and received by The Braun Corporation within 20 days of purchase.

This warranty also covers the cost of labor for the repair or replacement of most parts for one year when performed by an authorized Braun Representative. (A Braun labor schedule determines cost allowance for repairs.)

This warranty does not cover normal maintenance, service, or periodic adjustments necessitated by use or wear. The Braun Corporation will not, under any circumstances, pay for loss of use of lift or vehicle in which it is installed or loss of time.

This warranty will become null and void if the lift has been damaged through accident, misuse, or neglect, or if the lift has been altered in any respect.



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