



Service Manual for:

NUVL855C

Under-Vehicle Lift®

Private Use Wheelchair Lifts

DOT — Private Use Lift

"DOT — Private Use Lift" verifies that this platform lift meets only the "private use lift" requirements of FMVSS No. 403. This lift may be installed on all vehicles appropriate for the size and weight of the lift, except for buses, school buses, and multi-purpose passenger vehicles other than motor homes with a gross vehicle weight rating (GVWR) that exceeds 4,536 kg (10,000 lb).

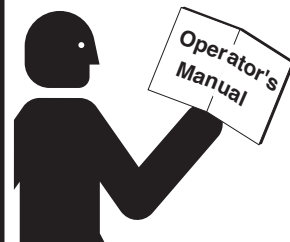


International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT® (574) 946-6153 FAX: (574) 946-4670



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March 2010

⚠ 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.

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, flowing style.

Ralph W. Braun
Chief Executive Officer

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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 are protected in a clear envelope and attached to the lift protective shipping wrap (shown on opposite page). The sales representative must process one of

the cards. The consumer must fill out the other card and mail it to The Braun Corporation. The limited warranty is provided in this manual. The warranty cards must be processed to activate the warranty.

Two Braun Serial No./Series No. identification tags are posted on the lift (shown on opposite page).

One I.D. tag is posted on the left platform side plate (outboard end). A second I.D. tag is located inside the pump module. Both I.D. tags provide the product identification information appearing on the warranty/registration card. Record the identification information in the space provided. This information must be provided when filing a warranty claim or ordering parts.

Warranty and Registration Instructions

Model No. Serial No.

OWNER'S WARRANTY REGISTRATION	
XXXXXXXXXXXX	XX-XXXXX
PURCHASED FROM _____	
OWNER _____	
NAME _____	DATE INSTALLED _____
ADDRESS _____	
CITY _____	
TELEPHONE _____	STATE _____ ZIP _____
TO VALIDATE WARRANTY REGISTRATION CARDS MUST BE RETURNED TO THE BRAUN CORPORATION.	

Sample Warranty/Registration Card

Record identification information below.

Model No. _____

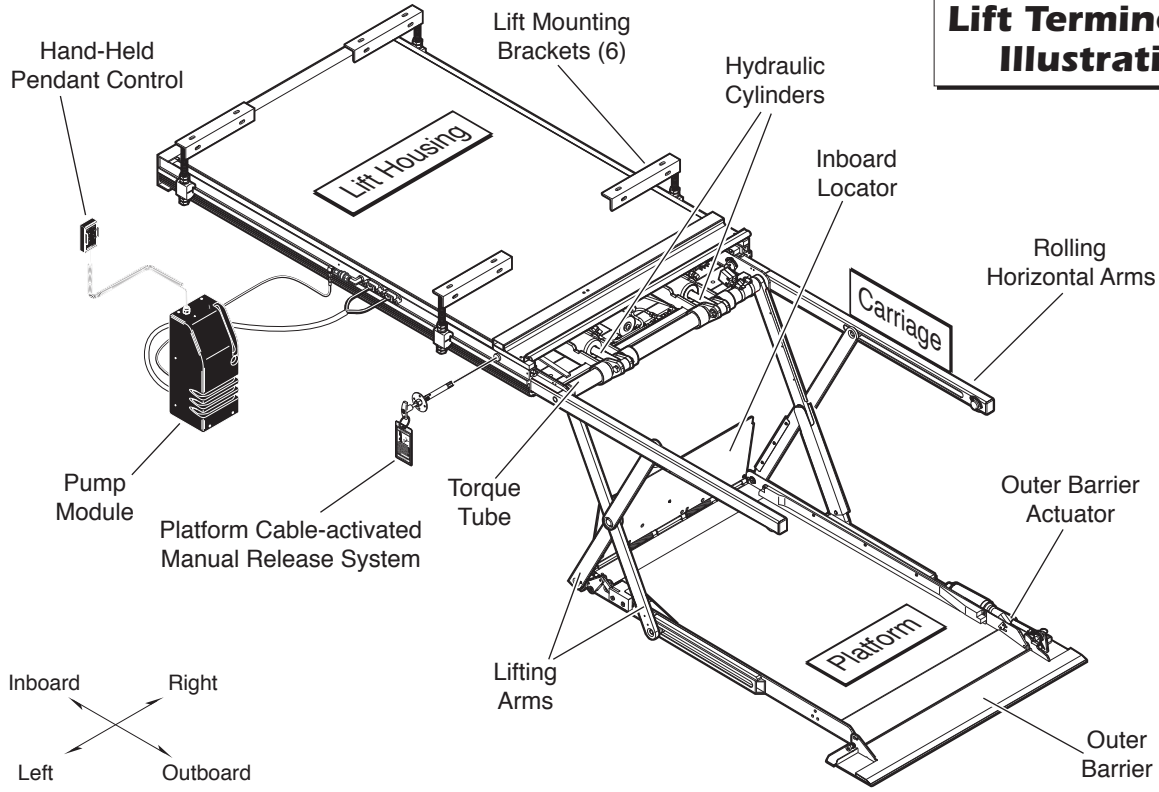
Serial No. _____

Date of Manufacture _____

Sample Serial
No./Series No.
Identification Tag

The Braun Corporation 1-800-THE-LIFT™ BRAUNLIFT.COM™	
DOT Public Use Lift MODEL#	XXXXXXXXXX
Max. Lifting Capacity - 600Lbs.	
SERIAL NUMBER	XX-XXXXX
MFG DATE	XX/XX/XXXX
CE	

Lift Terminology Illustration



Lift Terminology

Introduction:

Braun NUVL Series lifts are ADA compliant and comply fully with National Highway Traffic Safety Administration (NHTSA) specifications. The NUVL855C is equipped with a hand-held pendant control and intended for operation by an attendant.

“Private Use” NUVL lift models are sometimes installed in vehicles equipped with fully-automatic door operators. Lift model NUVL855C provides fully automatic operation of all lift functions as well as optional power door operators (if so equipped).

Refer to the Lift Terminology Illustration for identification of lift components.

Basic lift operation procedures are identical for all NUVL Series lift models. The operating instructions provided in this manual and on lift operating instruction decals address the lift control switches and the corresponding lift functions. Instructions are provided for manual operation of the lift.

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," "right," "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 Illustration for clarification of direction terms.

Lift Terminology

Lift Components

Refer to the Lift Terminology Illustration on page 4.

Pump Module: The remote mounted pump module consists of the main hydraulic pump, the manual hand pump, the electronic control board and other electrical components that power the lift electric/hydraulic systems.

Hand-held Pendant Control: The hand-held pendant is equipped with four push button switches, (DOOR, STOW, DOWN and UP). The momentary switches activate the automatic lift functions. Simply press the switch labeled for the intended function. The lift function labels illuminate to identify the function(s). Details

regarding control switches and their functions are provided in the Lift Operation section.

Lift Housing: The lift housing is the metal structure (casing) mounted under the vehicle which contains and protects the platform carriage assembly. The housing contains all lift components except the power (pump) module when the lift is in the stowed position.

Platform Carriage Assembly: The platform carriage assembly includes the platform assembly, the lifting arms, the rolling horizontal arms that carry the platform assembly in and out of the housing and the electrical/hydraulic drive components that power the lift.

Platform Assembly: The lift platform assembly consists of the flat aluminum plate upon which the wheelchair is positioned, the outer barrier, and the inboard locator.

Outer Barrier: The spring-loaded, electric actuator-driven outer barrier provides a ramp for wheelchair loading and unloading at ground level. Photos and further details are provided in the Operation Notes and Details section (pages 18-19).

Inboard Locator: The NU-VL855C is equipped with an automatic inboard locator that also serves as the bridge plate.

Lift Terminology

The inboard locator bridges the gap between the lift platform and the vehicle floor. The inboard locator automatically rotates from the horizontal position to the vertical position as the lift lowers and raises. Further details regarding the automatic mechanical inboard locator are provided on pages 17 and 18.

Platform Cable-activated Manual Release System: A cable-activated manual release system releases the platform carriage assembly drive chain to allow the platform carriage assembly to be manually moved out (extended) or moved in (retracted), should it be necessary. Further details are provided on page 29.

Vehicle and Lift Interlocks

Braun Corporation NUVL Series lifts comply fully with all NHTSA vehicle and lift interlock specifications. Vehicle movement is prohibited unless the lift is fully stowed and the lift will not function unless the vehicle is parked and secured.

The NUVL855C features an audible threshold warning system that will activate if the threshold area is occupied when the platform is one inch or more below floor level.

The inboard locator and outer barrier sense weight to prohibit lift operation. The lift will not function if the inboard locator or outer barrier are occupied. The lift platform cannot be stowed if occupied.

The lift platform cannot be raised or lowered unless the inboard locator and outer barrier are deployed (up).

Lift Terminology

Lift Actions and Functions:

Deploy (Extend): Lift deployment is the action of the lift platform carriage assembly extending (moving outward) from the housing and lowering to ground level when the DOWN switch is activated or raising to floor level when the UP switch is activated.

Stow (Retract): Stow is the action of the lift platform and carriage assembly retracting (moving inward) into the lift housing. During the stow function, the platform will automatically raise or lower to stow level before retracting into the housing.

DOWN - Platform Lower: Down is the action of the platform lowering from stow or floor level posi-

tion to fully-lowered (ground level) position when the DOWN switch is pressed.

DOWN - Outer Barrier Unfold (Down) - When the platform reaches the fully-lowered (ground) position and the DOWN switch is continued to be pressed, the outer barrier rotates downward from vertical position to ramp position.

UP - Outer Barrier Fold (Raise): From ground level, the UP function automatically raises (rotates) the actuator activated outer barrier to the upright (vertical) position before the platform raises.

UP - Platform Raise: Up is the action of the platform raising from stow level or ground level to floor

level (fully-raised) position when the UP switch is pressed. When the lift is fully lowered, pressing the UP switch first raises the outer barrier.

Note: The lift platform will not raise if the outer barrier is not in the upright (vertical) position. This is a built in safety feature.

Stow Level: Stow level is the height that the platform and carriage assembly moves in and moves out of the lift housing.

Floor Level: Floor level is the height that the platform and carriage assembly raises to in order for the wheelchair passenger to enter and exit the vehicle (fully raised position).


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, trouble free operation. Safety precautions are provided to identify potentially hazardous situations and provide instruction on how to avoid them.


B



WARNING

This symbol indicates important safety information regarding a potentially hazardous situation that could result in serious bodily injury and/or property damage.

C



CAUTION

This symbol indicates important information regarding how to avoid a hazardous situation that could result in minor personal injury or property damage.

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


If the lift operating instructions, manual operating instructions and/or lift operation safety precautions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

 **WARNING** Read manual and supplement(s) before operating lift. Read and become familiar with all safety precautions, operation notes and details, operating instructions and manual operating instructions before operating the lift. Note: Wheelchair passengers and all transit agency personnel (drivers and wheelchair lift attendants) must read and become familiar with the contents of this manual and supplement(s) before operation.

 **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** 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.

Lift Operation Safety

⚠️WARNING

Whenever a wheelchair passenger (or standee) is on the platform, the:

- Passenger must face outward.
- Wheelchair brakes must be locked
- Inboard locator and outer barrier must be up (vertical)

⚠️WARNING

Load and unload clear of vehicular traffic.

⚠️WARNING

Do not overload or abuse. The load rating applies to both the raising and lowering functions (continuous lifting capacity is 750 lbs. and a minimum unobstructed platform operating volume of 45,000 cubic inches).

⚠️WARNING

Discontinue lift use immediately if any lift or vehicle interlock does not operate properly.

⚠️WARNING

Do not operate or board the lift if you or your lift operator are intoxicated.

⚠️WARNING

Do not raise front wheelchair wheels (pull wheelie) when loading (boarding) the platform.

⚠️WARNING

Open lift door(s) fully and secure before operating lift.

⚠️WARNING

Position and secure (buckle, engage, fasten, etc.) the wheelchair-equipped occupant seat belt (torso restraint) before loading onto the wheelchair lift platform.

⚠️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

If the lift operating instructions, manual operating instructions and/or lift operation safety precautions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

-  **WARNING** Platform must be positioned at floor level (bridging position) when loading or unloading in and out of vehicle.
-  **WARNING** Do not use platform inboard locator or outer barrier as a 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 outer barrier is fully unfolded (ramp position) before loading or unloading a passenger at ground level.
-  **WARNING** The outer barrier must be fully unfolded (ramp position) until front and rear wheelchair wheels cross the barrier when loading or unloading at ground level.

 **WARNING** Accidental activation of control switch(es) may cause unintended operation(s).

Lift Operation Safety

- ⚠WARNING** After manually releasing platform, stow platform and push manual release T-handle in fully and move platform in and out to engage platform lock before driving vehicle. Failure to lock platform may result in unintended platform deployment.
- ⚠WARNING** Insert manual release T-handle fully before manually lowering or raising platform and manually move platform in and out to engage platform lock.
- ⚠WARNING** Maintenance and lubrication procedures must be performed as specified in this manual by authorized (certified) service personnel.
- ⚠WARNING** Replace missing, worn or illegible decals.
- ⚠WARNING** Keep owner's (operator's) manual in lift vehicle at all times.
- ⚠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.

Operation Notes and Details

WARNING

Read and become familiar with all lift operation safety precautions, 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.

“Private Use” NUVL lift models are sometimes installed in vehicles equipped with fully-automatic door operators. The NUVL855C provides fully automatic operation of all lift functions as well as optional power door operators (if so equipped).

Note: An attendant must manually open and close lift door(s) in applications where power door operator(s) are not provided.

It is the responsibility of the lift operator (attendant and/or wheelchair passenger) to properly activate all power functions (lift and door).

Read and become familiar with all lift operation safety precautions, operation notes and details, operating instructions, and manual

operating instructions before attempting lift operation procedures.

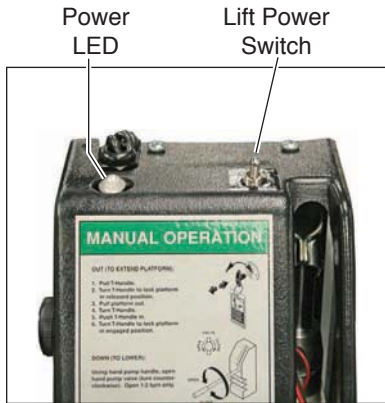
General Safety: Before operating the lift, always engage the vehicle transmission in Park “P” and engage the vehicle parking brake. Note: Lift and vehicle interlocks prevent lift operation until the vehicle is immobilized.

Lift operators (attendants), wheelchair passengers and bystanders must keep clear of the area in which the power doors (if equipped), and the lift operates (clear of all moving parts). The lift occupant (passenger) must keep hands, arms and all other body parts within the lift occupant area and clear of moving parts. Follow all lift operation and wheelchair passenger information detailed in this manual.

Operation Notes and Details

Control Switches

Lift Power ON/OFF Switch: This switch must be in the ON position in order to activate the lift. The Power Indicator Light illuminates to signal power to the lift.



Hand-held Pendant Control: The hand-held attendant's pendant control is equipped with four push button switches (DOOR, STOW, DOWN and UP). The momentary switches activate all lift and door functions. Simply press the switch labeled for the intended function. When there is power to the lift, the lift function labels illuminate to identify the functions.

Power Door Activation: If your vehicle is equipped with optional automatic door operators, the doors will open when the UP or DOWN switch is pressed. The automatic door operators will close when the DOOR switch is pressed (only if the lift platform is in the fully stowed position).



Hand-held Pendant

Operation Notes and Details

Power Door Operator(s):

Optional power door operators can be activated using the hand-held pendant, optional remote control, or auxiliary 3rd Station control. In the event the vehicle is not equipped with power door operator(s), manually open, secure, and close the door(s).

Auxiliary Control Switches:

A remote control system and a third station control are available as options. All auxiliary controls activate lift functions and automatic door operators.

Do not press pendant switches and auxiliary control station switches at the same time. Do not attempt to interface aftermarket control systems.

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.

Braun Corporation After-market Control Systems Policy:

The Braun Corporation manufactures dedicated control systems for its products. These control systems have been designed and tested for use in conjunction with specific Braun products. Braun control systems are the only control systems authorized for use with Braun products.

Do not attempt to interface aftermarket control systems with Braun products. To do so may result in serious bodily injury and/or property damage.

Operation Notes and Details

Lift Features

Inboard locator: The NUVL855C is equipped with an automatic inboard locator that also serves as a bridge plate. The spring loaded inboard locator automatically deploys

(rotates) to the vertical position when the platform extends from the stow position.

When the UP switch is pressed and the platform raises to floor level, this mechanical inboard locator is automatically rotated to the bridging (horizontal)

position to provide a bridge plate between the platform and the vehicle floor. The inboard locator must rest solidly on the vehicle floor (minimum 1½" overlap). The inboard locator automatically deploys (rotates) to the vertical (up) position as the platform lowers (DOWN switch is pressed).

Note: NUVL603C Shown



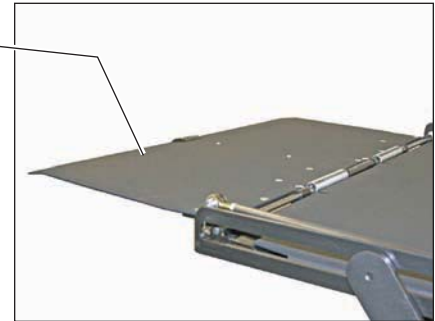
Fully Deployed
(vertical)
Inboard
Locator

Fully Unfolded
(horizontal)
Inboard Locator
(bridging position)

◀ Inboard locator ▶

The inboard locator must rest solidly on the vehicle floor (minimum 1½" overlap).

Note: NUVL603C Shown



Operation Notes and Details



The inboard locator automatically folds down to the platform surface (horizontal) during the stow function (as platform retracts).

Interlock Feature: The inboard locator senses weight (pressure) to prohibit lift operation. The lift will not function if the inboard locator is occupied.

Discontinue lift operation immediately if the inboard locator does not operate properly.

Outer Barrier: The outer barrier provides a ramp for wheelchair loading and unloading at ground level (see photos on following page). When the platform lowers fully to ground level, the electric actuator unfolds (rotates) the barrier to the ramp position (fully unfolded).

The outer barrier is spring loaded but driven by the electric actuator to rotate from the ramp (horizontal) position to the deployed (vertical) position.

Although the outer barrier is lift-powered, activation of the barrier is controlled by the lift operator. Pressing the DOWN switch unfolds the barrier. The actuator-powered outer barrier folds (rotates) to the vertical position when the UP switch is pressed.

Interlock Feature: The outer barrier senses weight to prohibit lift operation. The lift will not function if the outer barrier is occupied.

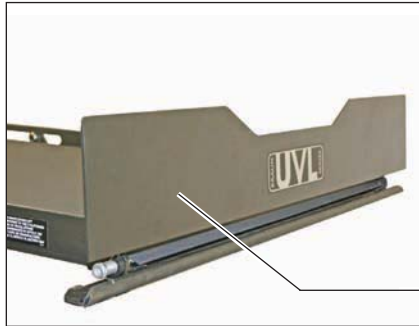
Operation Notes and Details

The lift operator must view the platform as it lowers to be certain the entire platform reaches and rests safely on the ground. 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 obstruction, mechanical failure, exceeding the lift "floor-to-ground" capacity, etc.). After the platform is fully lowered, the attendant should continue to press the DOWN switch to unfold the outer barrier fully (ramp posi-

tion). Note: The outer barrier must be fully unfolded until the entire wheelchair (or standee) has crossed the barrier when loading or unloading at ground level. Discontinue lift operation immediately if the outer barrier does not operate properly.

Note: NUVL603C Shown

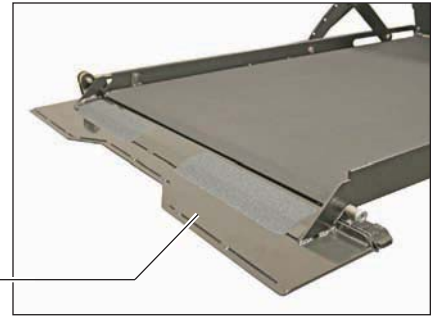


◀ Outer Barrier ▶

Fully-Deployed
Outer Barrier
(Up-vertical)

Fully-Unfolded
Outer Barrier
(Ramp position)

Note: NUVL603C Shown



Operation Notes and Details

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.

Observe your passenger at all times during lift operation. The lift passenger must keep hands, arms, and all other body parts within the lift occupant area and clear of all moving parts.

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 750 pound load ca-

capacity of the lift. The lift attendant (or others) should not ride on the platform with the passenger.

Passenger Orientation (Boarding Direction): The wheelchair passenger must face outward whenever on the platform. The passenger should be positioned in the center of the platform to prevent side-to-side load imbalance.

The wheelchair brakes must be locked, and the inboard locator and the outer barrier must be in the fully-up (vertical) position whenever a wheelchair passenger is on the platform.

Do not use the outer barrier as a 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.

WARNING

Whenever a passenger is on the platform, the:

- Passenger must face outward.
- Wheelchair brakes must be locked.
- Inboard locator and outer barrier must be UP.

Failure to do so may result in serious bodily injury and/or property damage.

Operation Notes and Details

Vehicle (Floor Level) Loading and Unloading: The platform must be fully raised (at floor level) and the inboard locator must be properly positioned when loading or unloading passengers in or out of the vehicle.

It is the responsibility of the lift operator to ensure the platform and the inboard locator are properly

positioned at floor level when loading and unloading passengers.

Threshold Warning (Interlock): An audible threshold warning will activate if the platform threshold area is occupied when the platform is one inch or more below floor level. The vehicle-mounted black mats identify the threshold area.

If the outer barrier, inboard locator, or any other lift component does not operate as outlined in this manual, discontinue lift use immediately and contact The 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.

Wheelchair-Equipped Occupant Seat Belts

The Braun Corporation recommends wheelchair passengers position and buckle their wheelchair-equipped seat belt (torso

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.

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.

Operation Notes and Details

Lift Passengers

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 the wheelchair lift user and/or attendant review the safety precautions and operation procedures provided in this manual and on lift operating instruction decals with your wheelchair lift sales representative (dealer), before attempting lift operation. Any questions or concerns can be addressed by the sales representative at that time.

Wheelchair Passenger: Using your own wheelchair, operate the lift through all functions and enter and exit the vehicle with the sales representative on hand to ensure the lift is right for you as the end user (applicable for your use based on your physi-

cal abilities and the physical characteristics of your personal wheelchair). Become familiar with the proper operation of your lift before operating the lift by yourself.

The lift operator's manual must be stored in the lift vehicle at all times.

Operation Notes and Details

Preventive Maintenance:

Maintenance is necessary to ensure safe and trouble free lift operation. General preventive lift maintenance consisting of careful inspections of the lift system and cleaning the lift should be a part a regular daily service program. Simple inspections can detect potential problems.

Keeping the lift platform and housing area clean is one of the most effective preventive maintenance practices to exercise. Dirt, mud, snow, ice, and other debris entering the housing could result in potential lift problems.

Regular preventive maintenance will reduce potential lift operation downtime and increase the service life of the lift, as well as enhancing safety. Exposure to harsh weather elements, environmental conditions, or heavy usage 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 on pages 37-45 of this manual. Refer to the Maintenance and Lubrication section for further details.

WARNING

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

Lift Operating Instructions

⚠️ WARNING

Whenever a passenger is on the platform, the:

- Passenger must face outward.
- Wheelchair brakes must be locked.
- Inboard locator and outer barrier must be UP.

Failure to do so may result in serious bodily injury and/or property damage.

⚠️ WARNING

Read and become familiar with all lift operation safety precautions, 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.

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

Instructions and procedures are applicable for the NUVL855C. Warnings and Lift Operating Instructions decal 31410 provides lift operating instructions. Replace any missing, worn or illegible decals.

If your lift does not function as intended or the audible warning signal is activated, review the NHTSA Operations Checklist on page 27. Refer to the Manual Operating Instructions on pages 28-32 to manually operate lift.

Lift Operating Instructions

OPEN DOOR(S) AND SECURE:

Power Door Operator(s):

Proceed to "TO DEPLOY PLATFORM."

Manual Door(s):

Manually open door(s) fully and secure.

TO DEPLOY PLATFORM:

Stand clear and press the UP switch until the platform stops (extends fully and raises to floor level) and inboard locator unfolds to floor level. Release switch.

TO UNLOAD PASSENGER:

1. Read Note below! Load passenger onto platform facing outward and lock wheelchair brakes.

Note: Passenger must be positioned in the center of the lift platform and the outer barrier must be up.

2. Press DOWN switch until the entire platform reaches ground level and the outer barrier unfolds fully (ramp position). Release switch.
3. Unlock wheelchair brakes and unload passenger from platform.

Note: Outer barrier must be fully unfolded (ramp position) until the entire wheelchair (or standee) has crossed the outer barrier.

Lift Operating Instructions

TO LOAD PASSENGER:

1. Read Notes below! Load passenger onto platform facing outward and lock wheelchair brakes.

Note: Outer barrier must be fully unfolded (ramp position) until the entire wheelchair (or standee) has crossed the outer barrier.

Note: Passenger must be positioned in the center of the lift platform.

2. Press UP switch to fold outer barrier UP fully (vertical), raise the platform to floor level and unfold inboard locator to floor level. Release switch.
3. Unlock wheelchair brakes and unload passenger from platform.

TO STOW PLATFORM:

Press STOW switch until platform stops (lowers to stow level and retracts fully). Release switch.

OPEN DOOR(S) AND SECURE:

Power Door Operator(s):

Press the DOOR switch until the door(s) are fully closed. Release switch.

Manual Door(s):

Manually close door(s) fully.

NHTSA Operations Checklist

The following operations have been verified upon installation. This operational checklist can be used at any time to verify the lift is fully functional.

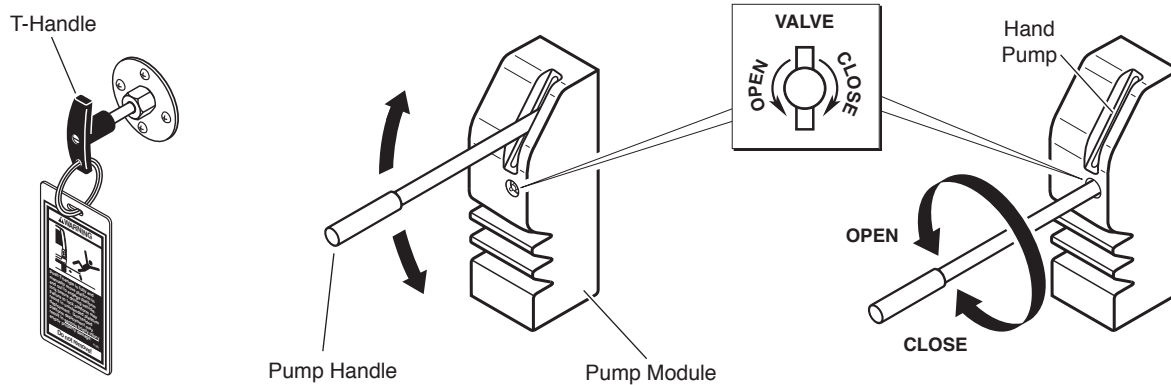
Verified:

- Vehicle movement is prevented unless the lift door is closed, ensuring the lift is stowed.
- Lift operation shall be prevented unless the vehicle is stopped and vehicle movement is prevented.
- The platform will not fold/stow if occupied.
- The inboard locator will not raise if occupied.
- The outer barrier will not raise if occupied.
- A warning will activate if the threshold area is occupied when the platform is at least one inch below floor level.
- Platform movement shall be interrupted unless the outer barrier is deployed (up).



Note: Refer to the service manual for adjustment procedures.

Manual Operating Instructions



Instructions are provided for all steps that differ from standard lift operation procedures. Refer to the Lift Operating Instructions for all normal lift operation procedures. Follow all Lift Operation Safety Precautions at all times! Familiarize yourself with the components

necessary to manually operate the lift. The T-handle release cable releases and engages the lift platform to allow the platform to be manually extended and retracted (details on pages 29 and 32). The manual hand pump is used to manually

lower and raise the extended platform (see pages 30-32).

Note: The location of the pump module and release cable T-handle varies per vehicle and installation. Standard NUVL pump module shown.

Manual Operating Instructions

Cable-Activated Platform Manual Release System

A cable-activated manual release system engages the platform carriage assembly drive chain. Disengaging the drive chain allows the platform to be manually extended (out) or retracted (in). A T-handle is provided for activation of the manual release.

After manually moving the platform in or out, the manual release must be positively re-engaged to lock the platform. Push the T-handle in fully and ensure platform is locked. Grasp the outer barrier and move the platform in and out until the platform locks. You will feel the release mechanism engage.

Ensure the platform is locked before driving lift vehicle. Failure to lock the platform carriage assembly will allow the platform to roll in or out of housing unhindered during vehicle movement. Uncontrolled and unintentional platform deployment (inadvertent platform ejection) may result in serious bodily injury and/or property damage.

Note: If not locked, the platform could also move in or out during hand pump raising and lowering procedures.

Note: Push the lift platform fully into the lift housing before resuming powered operation. Doing so provides proper switch activation.

WARNING

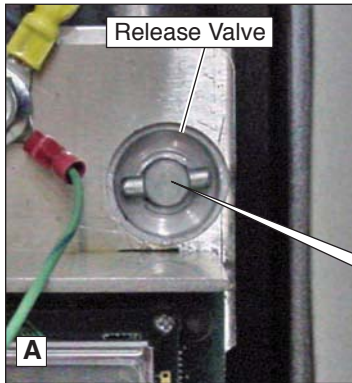


Push T-handle in fully and manually move platform in and out to engage platform lock before driving vehicle. Failure to lock platform may result in unintended platform deployment. Unintended platform deployment may result in serious bodily injury and/or property damage.

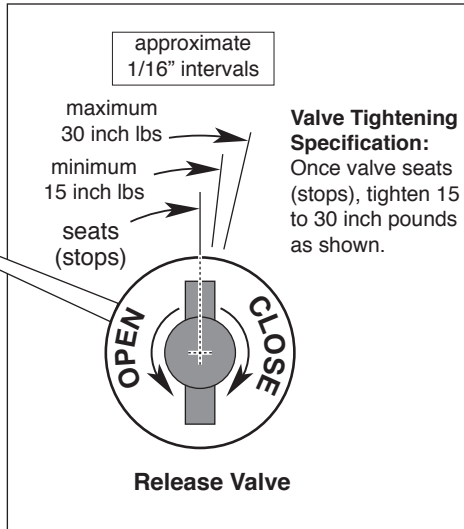
Manual Operating Instructions

Manual Hand Pump

The manual hand pump is used to lower and raise the platform.



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



Manual Operating Instructions

Refer to Figures A-D for the Manual Operating Instructions on page 32.

Note: Inboard locator automatically functions during manual operations.

Figure A

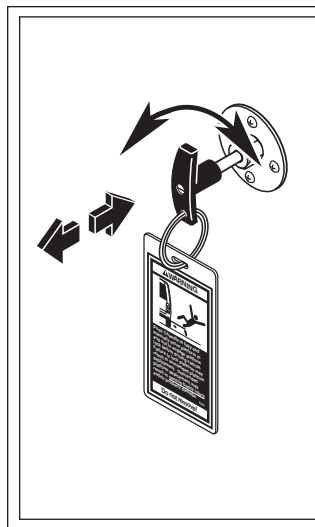


Figure B

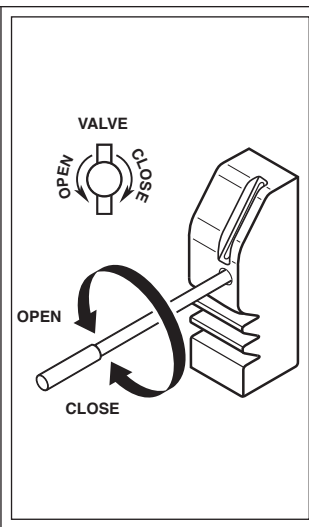


Figure C

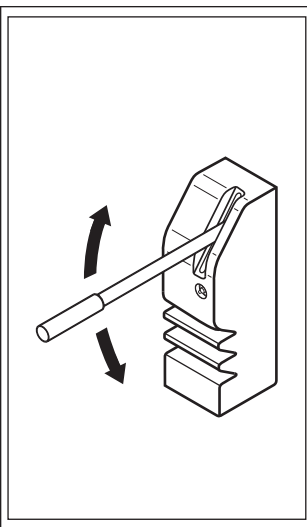
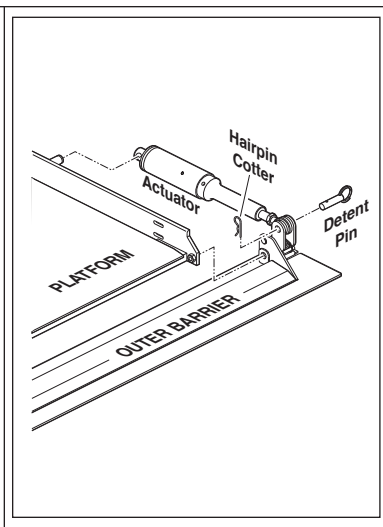


Figure D



Manual Operating Instructions

OUT (To Extend Platform):

1. Pull T-Handle (see Figure A).
2. Turn T-Handle to lock platform in released position.
3. Pull platform out.
4. Turn T-Handle.
5. Push T-Handle in.
6. Grasp outer barrier and attempt to move platform in and out until the platform locks (feel release mechanism engage).

DOWN (To Lower Platform):

Using hand pump handle, open hand pump valve (turn counter-clockwise). See Figure B. Open 1/2 turn only.

DOWN (To Unfold Outer Barrier):

1. Remove hairpin cotter from detent pin (see Figure D).
2. Remove detent pin.
3. Unfold (rotate) barrier down.

UP (To Fold Outer Barrier):

1. Fold (rotate) barrier up.
2. Insert detent pin (see Figure D).
3. Insert hairpin cotter in detent pin.

UP (To Raise Platform):

Using hand pump handle:

1. Close hand pump valve (turn clockwise). See Figure B.
2. Insert handle in pump and stroke. See Figure C.

IN (To Stow Platform):

1. Raise or lower platform to stow level (follow UP or DOWN procedures).
2. Pull T-Handle. See Figure A.
3. Turn T-Handle to lock platform in released position.
4. Push platform in.
5. Turn T-Handle.
6. Push T-Handle in.
7. Grasp outer barrier and attempt to move platform in and out until the platform locks (feel release mechanism engage).

Note: Close hand pump valve before operating electric pump.

Decals and Antiskid

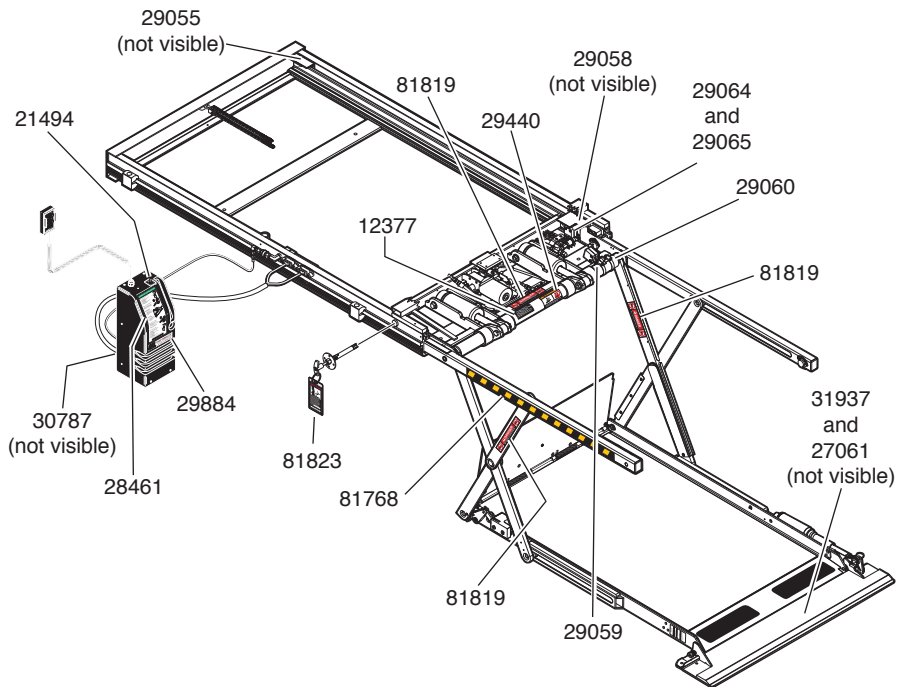
⚠ WARNING

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

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.

Note: Clean surfaces as detailed on page 36 before posting decals.

Decal Placement



Decals and Antiskid

Decals

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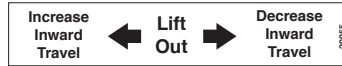
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Decals and Antiskid


Decals

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MANUAL OPERATION

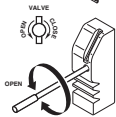
OUT (TO EXTEND PLATFORM):

1. Pull T-Handle.
2. Turn T-Handle to lock platform in released position.
3. Pull platform out.
4. Turn T-Handle.
5. Push T-Handle in.
6. Turn T-Handle to lock platform in engaged position.



DOWN (TO LOWER):


Using hand pump handle, open hand pump valve (turn counter-clockwise). Open 1/2 turn only.



UP (TO RAISE):


Using hand pump handle:

1. Close hand pump valve (turn clockwise).
2. Insert handle in pump and stroke.



IN (TO STOW PLATFORM):

1. Raise or lower platform to stow level (follow UP or DOWN procedures).
2. Pull T-Handle.
3. Turn T-Handle to lock platform in released position.
4. Push platform in.
5. Turn T-Handle.
6. Push T-Handle in.
7. Turn T-Handle to lock platform in engaged position.



Read operator's manual for further details.

Close valve before operating electric pump.

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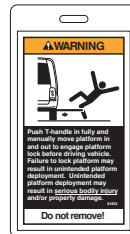
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WARNING

- Read manual before operating lift.
- Load and unload on level surface only.
- Engage vehicle parking 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.
- Fold handrails down before lowering lift.

Whenever a wheelchair passenger is on the platform, the:

- Passenger must face outward
- Wheelchair brakes must be locked
- Inner roll stop and outer barrier 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 DEPLOY PLATFORM:

Stand clear and press **UP** switch until platform stops (outside fully and raises to floor level), and inner roll stop unfolds to 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 and outer barrier unfolds fully.
3. 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 lock outer barrier up, raise platform to floor level, and unfold inner roll stop to floor level.
3. Unlock wheelchair brakes and unload passenger from platform.

TO STOW PLATFORM:

Press **STOW** switch until platform stows (retracts fully).

CLOSE DOOR(S)

DOT - Private Use Lift


31410

31411

MANUAL OPERATION

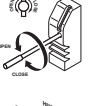
OUT (TO EXTEND PLATFORM):

1. Pull T-Handle.
2. Turn T-Handle to lock platform in released position.
3. Pull platform out.
4. Turn T-Handle.
5. Push T-Handle in.
6. Turn T-Handle to lock platform in engaged position.



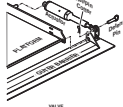
DOWN (TO LOWER PLATFORM):

Using hand pump handle, open hand pump valve (turn counter-clockwise). Open 1/2 turn only.




DOWN (TO UNFOLD OUTER BARRIER):

1. Remove halpin cotter from detent pin.
2. Remove detent pin.
3. Unfold (rotate) barrier down.



UP (TO FOLD OUTER BARRIER):

1. Fold (rotate) barrier up.
2. Insert detent pin.
3. Insert halpin cotter in detent pin.



UP (TO RAISE PLATFORM):


Using hand pump handle:

1. Close hand pump valve (turn clockwise).
2. Insert handle in pump and stroke.

Note: Close valve before operating electric pump.

IN (TO STOW PLATFORM):

1. Raise or lower platform to stow level (follow UP or DOWN procedures).
2. Pull T-Handle.
3. Turn T-Handle to lock platform in released position.
4. Push platform in.
5. Turn T-Handle.
6. Push T-Handle in.
7. Turn T-Handle to lock platform in engaged position.



Read operator's manual for further details.

DOT - Private Use Lift

31411

Decals and Antiskid

Antiskid

WARNING

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

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.

Available Antiskid

Size	Color	Part No.
2" x 12"	Black	#24172-BK
2" x 12"	Yellow	#24172-YL
3" x 8"	Black	#31188-BK
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

Proper maintenance is necessary to ensure safe, trouble free operation. Inspecting the lift for any wear, damage or other abnormal conditions should be a part a regular service program. Simple inspections can detect potential problems.

The maintenance and lubrication procedures specified in the following schedule must be performed by a Braun authorized service representative at the scheduled intervals according to the number of cycles. NUVL Series lifts are equipped with a cycle counter (digital display built into the electronic control board).

NUVL Series lifts are equipped with hardened pins and self-lubricating bushings to decrease wear, provide smooth operation and extend the service life of the lift.

When servicing the lift at the recommended intervals, inspection and lubrication procedures specified in the previous sections should be repeated. Clean components and the surrounding area before applying lubricants.

LPS2 General Purpose Penetrating Oil is recommended where Light Oil is called out. Use of improper lubricants can attract dirt or other contaminants which could result in wear or damage to the components. Platform components exposed to contaminants when lowered to the ground may require extra attention.

Lift components requiring grease are lubricated during assembly procedures. When these components are replaced, grease must be applied during installation procedures. Specified lubricants are available from The Braun Corporation (part numbers provided).

WARNING

Maintenance and lubrication procedures must be performed as specified by an authorized service technician. Failure to do so may result in serious bodily injury and/or property damage.

Maintenance and Lubrication

All listed inspection, lubrication and maintenance procedures should be repeated at 750 cycle intervals following the scheduled 4500 cycle maintenance procedures. These intervals are a general guideline for scheduling maintenance procedures and will vary according to lift use and conditions. Lifts exposed to severe conditions (weather, environment, contamination, heavy usage, etc.) may require inspection and maintenance procedures to be performed more often than specified.

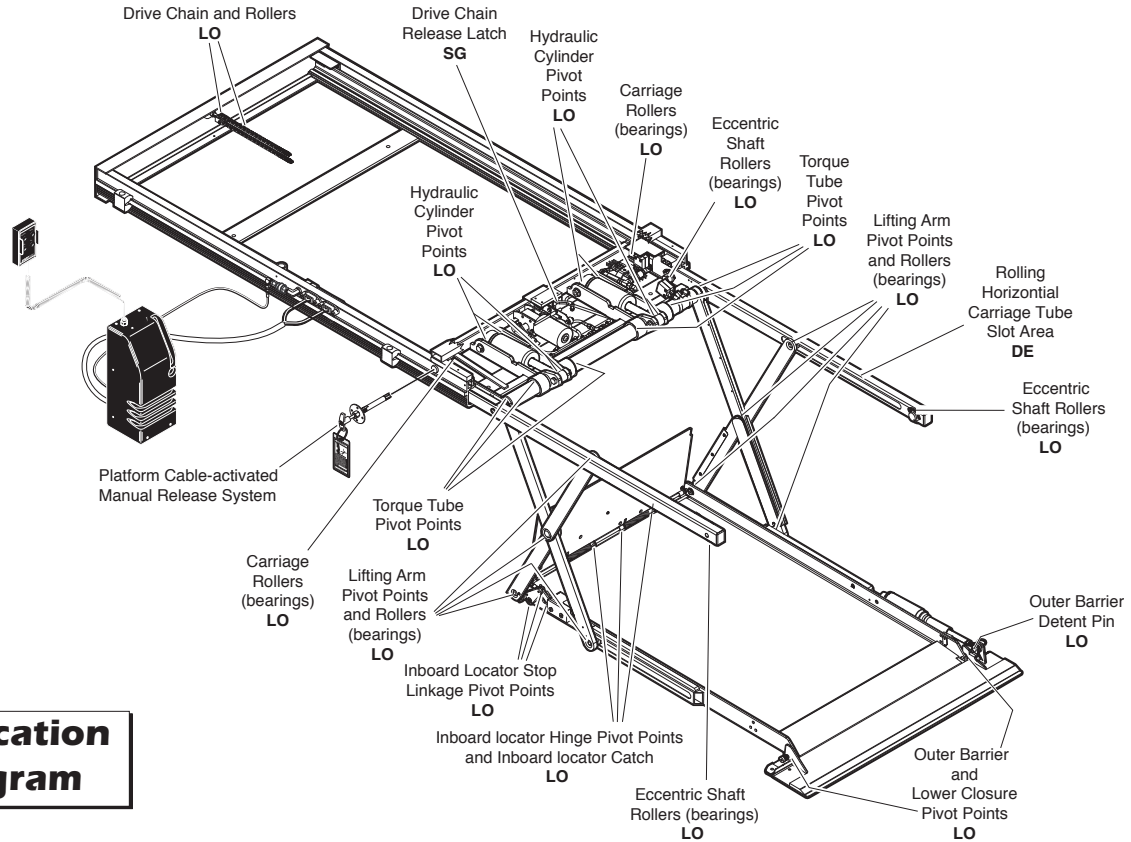
Maintenance Indicator: The Lift Ready green LED mounted on top of the pump cover will change color to yellow after every 750 cycles. The yellow LED will not affect the functions of the lift, but is a reminder to complete necessary maintenance and

lubrication procedures. Once the lift has been serviced, press the CYCLE button (located below LCD display on the control board) until the Lift Ready LED changes back to green. The CYCLE button also clears the lift cycle count (since last service) but not the lifetime cycle count.

Discontinue lift use immediately if maintenance and lubrication procedures are not properly performed, or if there is any sign of wear, damage or improper operation. 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 technician who will inspect your lift.

See the Maintenance/Lubrication Schedule for recommended applications per number of cycles.

Lubricant	Type	Specified (recommended) Lubricant	Available Amount	Braun Part No.
LO - Light Oil	Light Penetrating Oil (30 weight or equivalent)	LPS2, General Purpose Penetrating Oil	16 oz. Aerosol Can	15807
DE - Door-Ease	Stainless Stick Style (tube)	Door-Ease Stick (tube)	1.68 oz.	15806
SG - Synthetic Grease	Synthetic Grease (Multipurpose)	Mobiltemp SHC32	12.5 oz. Tube	28598



**Lubrication
Diagram**

Maintenance and Lubrication Schedule

750 Cycles	Outer barrier and lower closure pivot points (2)	Apply Light Oil - See Lubrication Diagram
	Outer barrier detent pin pivot points (2)	Apply Light Oil - See Lubrication Diagram
	Inboard locator hinge pivot points	Apply Light Oil - See Lubrication Diagram
	Inboard locator linkage pivot points	Apply Light Oil - See Lubrication Diagram
	Inboard locator latch	Apply Light Oil - See Lubrication Diagram
	Lifting arm pivot points and rollers (bearings)	Apply Light Oil - See Lubrication Diagram
	Inspect outer barrier and lower closure for proper operation	Correct or replace damaged parts.
	Inspect outer barrier seal and lower closure gasket	Resecure, replace or correct as needed
	Inspect outer barrier detent pin hairpin cotter	Ensure hairpin cotter is present and can be removed and inserted easily. Resecure, replace or correct as needed.
	Inspect lift for wear, damage or any abnormal condition	Correct as needed.
Inspect lift for rattles	Correct as needed.	

Maintenance and Lubrication Schedule

750 Cycles	Check drive chain tension.	Pull out and lock manual release cable. Adjust chain tension as needed. See Drive Chain Adjustment in Service Manual.
	Inspect inboard locator and linkage for: <ul style="list-style-type: none"> • Proper operation • Positive securement • Wear or damage • Proper adjustment 	Resecure, replace or correct as needed. See Floor Level Switch and Inboard Locator Adjustment Instructions in Service Manual.
	Check carriage ride height in housing	Adjust as needed. See Carriage Ride Height Adjustment in Service Manual.
	Check stow height/lifting arm alignment	Lifting arms should be horizontal, aligned with each other and aligned with carriage. Adjust as needed. See Switch Adjustment (Stow Switch) in Service Manual.
	Inspect wiring harnesses for securement, wear or other damage	Resecure, replace or correct as needed
	Check lower pan securement	Resecure, replace damaged parts or correct as needed.
	Torque tube pivot bearings (4 places)	Apply Light Oil - See Lubrication Diagram
	Verify NHTSA Operations Checklist	See NHTSA Operations Checklist

Maintenance and Lubrication Schedule

1500 Cycles	Perform all procedures listed in previous section also	
	Carriage rollers (bearings)	Apply Light Oil - See Lubrication Diagram
	Eccentric shaft rollers (bearings)	Apply Light Oil - See Lubrication Diagram
	Lifting arm slots in rolling horizontal carriage arm tubes.	Apply Door Ease - See Lubrication Diagram. Apply to the surface area around both slots and wipe off excess.
	Hydraulic cylinder pivot points (4 per cylinder)	Apply Light Oil - See Lubrication Diagram
	Drive chain and chain rollers	Apply Light Oil - See Lubrication Diagram
	Drive chain release latch mechanism	Apply Synthetic Grease - See Lubrication Diagram
	Deploy lift, remove lower pan and blow out housing. Blow off platform also.	Use compressor and nozzle to remove all debris from housing. Clean lower pan slot and apply antiseize to slot before reinstalling pan.
Deploy lift, remove lower pan and clean housing tracks	Use clean cloth and solvent to clean tracks. Clean outboard lower pan slot and apply antiseize to slot before reinstalling pan.	
Check drive chain tensioner, jam nuts and connecting link for securement and/or misalignment.	Correct or replace damaged parts and/or relubricate. See Drive Chain Adjustment in Service Manual.	

Maintenance and Lubrication Schedule

1500 Cycles	Inspect drive chain release latch mechanism for proper operation, positive securement, wear or other damage	Correct or replace damaged parts and/or relubricate.
	Inspect platform cable-activated manual release system (T-handle/cable assembly and carriage movement)	Ensure T-handle release and cable assembly operate properly (see Manual Operation). Ensure carriage can be manually extended and retracted freely.
	Inspect limit switches and cams for securement and proper adjustment	Resecure, replace or adjust as needed. See Adjustments and Calibration in Service Manual.
	Inspect carriage, lifting arm and eccentric shaft rollers (bearings) for wear or damage, positive securement and proper operation	Correct, replace damaged parts and/or relubricate.
	Inspect external snap rings (e-clips): <ul style="list-style-type: none"> • Carriage roller bearings (4) • Lower lifting arm pins (4) • Eccentric shaft track roller bearing (1) 	Resecure, replace or correct as needed.
	Inspect lower lifting arm pins for wear or damage, positive securement and proper adjustment	Resecure, replace damaged parts, lubricate or correct as needed.

Maintenance and Lubrication Schedule

1500 Cycles	Inspect eccentric shaft pins, bearing mounting screw, washers and securement hardware for wear or damage, positive securement and proper operation	Resecure, replace damaged parts, lubricate or correct as needed. See Carriage Ride Height Adjustment in Service Manual.
	Inspect torque tube cams for securement, wear or damage	Resecure, replace or correct as needed.
	Inspect housing cam brackets for securement, wear or damage	Resecure, replace or correct as needed.
	Inspect cylinder(s), hoses, fittings and hydraulic connections for wear, damage or leaks	Tighten, repair or replace if needed.
	Inspect power cable	Resecure, repair or replace if needed.
4500 Cycles	Perform all procedures listed in previous section also	
	Hydraulic Fluid (Pump) - Check level. Note: Fluid should be changed if there is visible contamination. Inspect the hydraulic system (cylinder, hoses, fittings, seals, etc.) for leaks if fluid level is low.	Use Braun 87010R (5606 aviation fluid). Do not mix with Dextron III or other hydraulic fluids. Check fluid level with platform lowered fully. Fill to maximum fluid level indicated on reservoir (specified on decal). Do not overfill. If fluid level decal is not present - measure 7/8" from the bottom of the fill tube to locate fluid level.

Maintenance and Lubrication Schedule

4500 Cycles	Inspect lifting arm bushings and pivot pins for visible wear or damage	Replace if needed.
	Inspect outer barrier pivot pin mounting bolts (2)	Tighten or replace if needed
	Mounting	Check to see that the lift is securely anchored to the vehicle and there are no loose bolts, broken welds, or stress fractures.
	Decals and Antiskid	Replace decals if worn, missing or illegible. Replace antiskid if worn or missing.

Consecutive 750 Cycle Intervals	Repeat all previously listed inspection, lubrication and maintenance procedures at 750 cycle intervals.
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Limited Warranty

WARRANTY COVERAGE AND WARRANTY COVERAGE TIME PERIODS

The Braun Corporation (“Braun”) warranty covers certain parts of this wheelchair lift for three (3) years or 10,000 cycles and the cost of labor to repair or replace those parts for one (1) year or 3,000 cycles. This limited warranty covers substantial defects in materials and workmanship of the lift, provided that the lift is operated and maintained properly and in conformity with the owner’s manual. The warranty period begins on the date that the product is delivered to the first retail purchaser by an independent, authorized dealer of Braun, or, if the dealer places the product into any type of service prior to retail sale, on the date the dealer first places the product in such service. This limited warranty applies only to the first purchaser. It may not be transferred.

WHAT BRAUN WILL DO TO CORRECT PROBLEMS

In the event that a substantial defect in material or workmanship, attributable to Braun, is found to exist during the first year of warranty coverage, it will be repaired or replaced, at Braun’s option, without charge for parts or labor to the owner, in accordance with the terms, conditions and limitations of this limited warranty. If the substantial defect in material or workmanship, attributable to Braun, is found to exist during the second or third year of warranty coverage, it will be repaired or replaced, at Braun’s option, without charge to the owner for parts, only, in accordance with the terms, conditions and limitations of this limited warranty. The cost of labor for any repair or replacement in the second and third year of warranty coverage is the sole responsibility of the owner. This warranty does not cover labor costs in the second or third year of coverage.

Limited Warranty

Braun's obligation to repair or replace defective materials or workmanship is the sole obligation of Braun under this limited warranty. Braun reserves the right to use new or remanufactured parts of similar quality to complete any work, and to make parts and design changes from time to time without notice to anyone. Braun reserves the right to make changes in the design or material of its products without incurring any obligation to incorporate such changes in any previously manufactured product. Braun makes no warranty as to the future performance of this product, and this limited warranty is not intended to extend to the future performance of the product. In addition, the owner's obligation to notify Braun, or one of its authorized, independent dealers, of a claimed defect does not modify any obligation placed on the owner to contact Braun directly when attempting to pursue remedies under state or federal law.

LIMITATIONS, EXCLUSIONS AND DISCLAIMER OF IMPLIED WARRANTIES

ANY IMPLIED WARRANTY THAT IS FOUND TO ARISE BY WAY OF STATE OR FEDERAL LAW, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS, IS LIMITED IN DURATION TO THE TERMS OF THIS LIMITED WARRANTY AND IS LIMITED IN SCOPE OF COVERAGE TO THE SCOPE OF COVERAGE OF THIS LIMITED WARRANTY. Braun disclaims any express or implied warranty, including any implied warranty of fitness or merchantability, on items excluded from coverage as set forth in this limited warranty. Braun makes no warranty of any nature beyond that contained in this limited warranty. No one has authority to enlarge, amend or modify this limited warranty, and Braun does not authorize anyone to create any other obligation for it regarding this product. Braun is not responsible for any representation, promise or warranty made by any independent dealer or other person beyond what is expressly stated in this limited warranty. Any selling or servicing dealer is not Braun's agent, but an independent entity.

Limited Warranty

BRAUN SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES THAT MAY RESULT FROM BREACH OF THIS LIMITED WARRANTY OR ANY IMPLIED WARRANTY. THIS EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES SHALL BE INDEPENDENT OF ANY FAILURE OF THE ESSENTIAL PURPOSE OF ANY WARRANTY, AND THIS EXCLUSION SHALL SURVIVE ANY DETERMINATION THAT THIS LIMITED WARRANTY OR ANY IMPLIED WARRANTY HAS FAILED OF ITS ESSENTIAL PURPOSE. This warranty does not cover, and in no event shall Braun be liable for towing charges, travel, lodging, or any other expense incurred due to the loss of use of the product or other reason.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

HOW TO GET SERVICE

To obtain warranty service the owner must do all of the following:

1. Notify an authorized service center, of the claimed defect attributable to Braun, within the warranty coverage period designated above
2. Provide the notification mentioned in (1), above, within ten (10) days of when the owner discovered, or should have discovered, the claimed defect
3. Promptly schedule an appointment with and take the product to an authorized service center for service.
4. Pay any transportation costs and all expenses associated with obtaining warranty service.

Limited Warranty

Since Braun does not control the scheduling of service work at the independent dealerships you may encounter some delay in scheduling or completion of work. If you need assistance you may contact Braun, at 631 West 11th Street, Winamac, Indiana 46996; 1-800-THE-LIFT, (843-5438).

If two (2) or more service attempts have been made to correct any covered defect that you believe impairs the value, use or safety of the product, or if it has taken longer than thirty (30) days for repairs to be completed, you must, to the extent permitted by law, notify Braun directly, in writing, at the above address, of the unsuccessful repair(s) of the alleged defect(s) so that Braun can become directly involved in providing service pursuant to the terms of this limited warranty.

WHAT IS NOT COVERED

This Limited Warranty does not cover any of the following: defects in materials, components or parts of the product not attributable to Braun, any material, component or part of the product that is warranted by another entity (Note: the written warranty provided by the manufacturer of the material, component or part is the direct responsibility of that manufacturer); items that are added or changed after the product leaves Braun's possession; additional items installed at any dealership, or other place of business, or by any other party, other than Braun; normal wear, tear, usage, maintenance, service, periodic adjustments, the effects of condensation or moisture from condensation; mold or any damage caused by mold; imperfections that do not affect the product for its intended purpose; items that are working as designed but that you are unhappy with; problems related to misuse, mishandling, neglect or abuse, including failure to maintain the product in accordance with the owner's manual, or other routine maintenance such as inspections, lubricating, adjustments, tightening of screws, sealing, wheel alignments or rotating tires; damage due to accident or collision,

Limited Warranty

including any acts of weather or damage or corrosion due to the environment; theft, vandalism, fire, or other intervening acts not attributable to Braun; damage resulting from tire wear or tire failure; defacing, scratches, dents or chips on any interior or exterior surface of the product, including those caused by rocks or other road hazards, damage caused by off road use, overloading or alteration of the product, or any of its components or parts;

Defects and/or damage to interior and exterior surfaces and other appearance items may occur at the factory or when the product is in transit. These items are usually detected and corrected at the factory or by a dealer prior to delivery to the purchaser. You must inspect the product for this type of damage when you take delivery. If you find any such defect or damage you must notify the selling dealer, or Braun, at the time of delivery to have these items covered by this limited warranty and to have work performed on the items at no cost to you as provided by this limited warranty.

EVENTS DISCHARGING BRAUN FROM OBLIGATION UNDER WARRANTY

The following shall completely discharge Braun from any express or implied warranty obligation to repair or replace anything and void this warranty: misuse, neglect, collision, accidents, failure to provide routine maintenance (See Owner's Manual), unauthorized alteration, off road use, Acts of Nature, damage from weather or the environment, theft, vandalism, tampering, fire, explosions, overloading the product and odometer tampering.

Limited Warranty

LEGAL REMEDIES

Any action to enforce any portion of this limited warranty, or any implied warranty, must be commenced within six (6) months after expiration of the warranty coverage period designated above or the action will be barred because of the passage of time. Any performance of repairs shall not suspend this limitation period from expiring. Any performance of repairs after the warranty coverage period has expired, or performance of repairs regarding any thing excluded from coverage under this limited warranty shall be considered “good will” repairs, and they will not alter the terms of this limited warranty, or extend the warranty coverage period or the filing limitation period in this paragraph. In addition, since it is reasonable to expect that the product will need some service during the warranty period, this warranty does not extend to future performance. It only sets forth what Braun will do and does not guarantee anything about the product for any time period. Nothing in this warranty, or any action of Braun, or any agent of Braun, shall be interpreted as an extension of any warranty period or the filing limitation period in this paragraph. Some states do not allow a reduction in the statute of limitations, so this reduction may not apply to you.

WARRANTY REGISTRATION and MISCELLANEOUS

Your warranty registration records should be completed and delivered to the appropriate companies, including the Braun Delivery Checklist & Warranty form. That form must be returned to Braun within twenty (20) days of purchase. The Braun warranty will not be registered unless this warranty registration is completed and received by Braun. Failure to file this warranty registration with Braun will not affect your rights under this limited warranty as long as you can present proof of purchase, but it can cause delays in obtaining the

Limited Warranty

benefits of this limited warranty, and it changes the start date of the warranty to the date of final assembly of the product by Braun.

Braun agrees to repair or replace any of its factory installed parts found to have substantial defects within the appropriate warranty period designated above, provided that the repair is authorized by Braun and carried out by an authorized service center (a Braun labor schedule determines the cost allowance for repairs). Braun will not honor any warranty claim for repairs or replacement of parts unless the claim is submitted with the appropriate paperwork, and the work is completed by an independent, factory authorized service center. The appropriate paperwork can be obtained by written or phone contact with Braun at the contact information in this warranty.

Braun reserves the right to designate where any warranty work can be performed. Braun also reserves the right to examine any defective workmanship or part prior to giving any authorization for warranty work. Braun's return authorization procedure must be adhered to in order to process any warranty claims.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

"Providing Access to the World"®



**Over 300 Braun
Dealers Worldwide**

Service Manual for:
NUVL855C
Under-Vehicle Lift®

Patent #5,305,486



Private Use Wheelchair Lifts

All illustrations, descriptions and specifications in this manual are based on the latest product information available at the time of publication. The Braun Corporation reserves the right to make changes at any time without notice.