

Lift Operating Instructions

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

If your lift does not function as intended or a visual or audible warning signal is activated, review the FMVSS 403/404 Certification Checklist. Refer to the Manual

Operating Instructions to manually operate lift. An NL Series lift is depicted in photos below. Operating procedures are applicable for other lift models.

OPEN DOOR(S) AND SECURE

TO UNFOLD PLATFORM:

Stand clear and press the UN-FOLD switch until the platform stops (reaches floor level - unfolds fully). Release switch.

Note: In event platform does not unfold, press FOLD switch to release Lift-Tite™ latches.

TO UNLOAD PASSENGER:

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

Note: Outer Barrier must be UP.

2. Press DOWN switch until the entire platform reaches ground level (see Photo B) and the outer barrier unfolds fully (ramp position). See Photo C. 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. See Photos E and F.

TO LOAD PASSENGER:

1. Read Notes below! Load passenger onto platform and lock wheelchair brakes. See Photo G.

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

Note: Passenger must be positioned fully inside yellow boundaries.

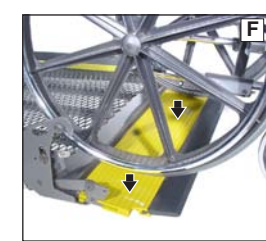
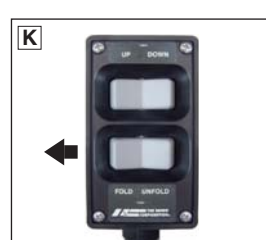
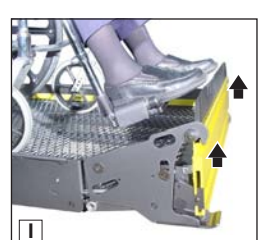
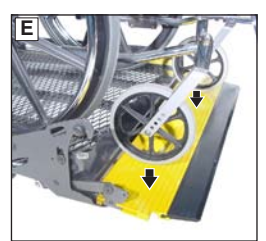
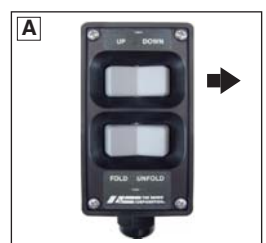
2. Press UP switch (Photo H) to fold outer barrier UP fully (vertical - see Photo I), and raise the platform to floor level. See Photo J. Release switch.

3. Unlock wheelchair brakes and unload passenger from platform.

TO FOLD PLATFORM:

Press FOLD (In) switch until platform stops (fully folded). See Photos K and L. Release switch.

CLOSE DOOR(S)

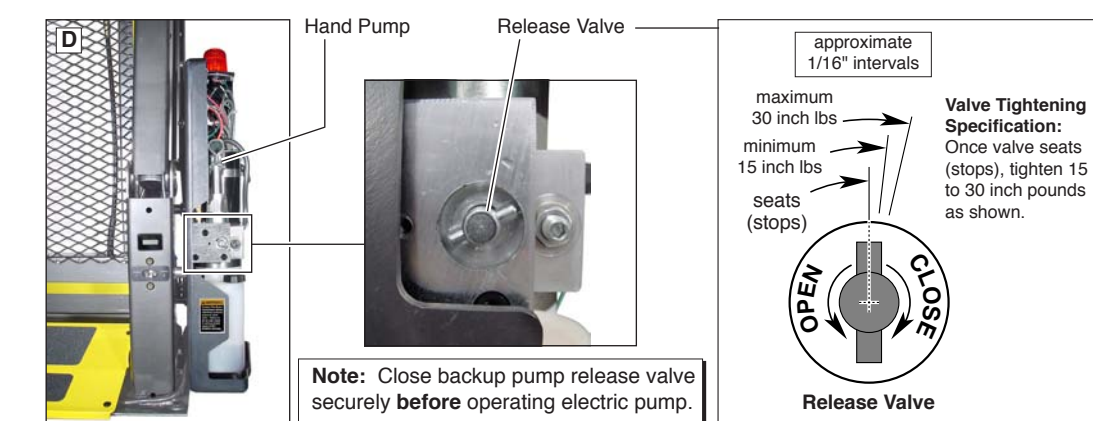
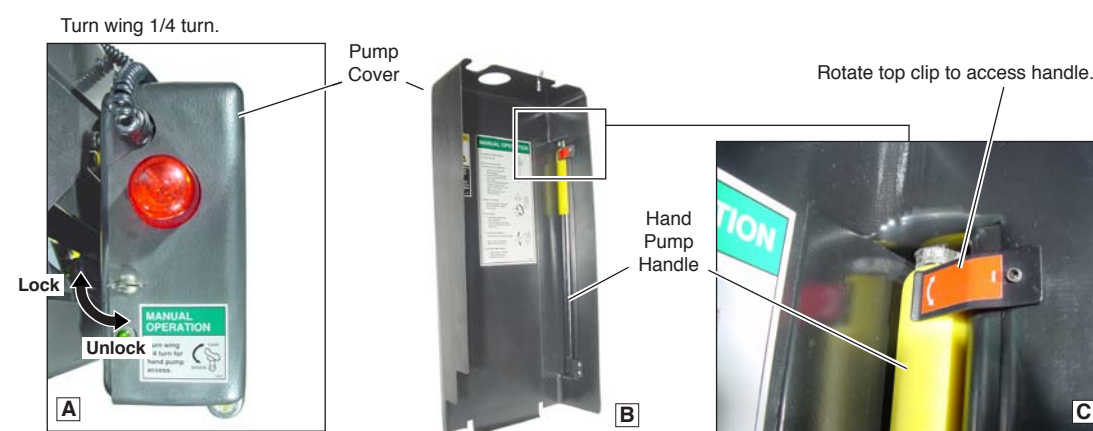


Manual Operating Instructions

Instructions are provided for all steps that differ from standard lift operation procedures.

Manual Operation decal 31412 also provides manual operating instructions (posted on pump cover).

Refer to the Lift Operating Instructions for all normal lift operation procedures. **Follow all Lift Operation Safety Precautions!**



Note: Inner roll stop and outer barrier automatically function during manual operations.

TO REMOVE PUMP COVER:

Turn wing nut located on top 1/4 turn and lift pump cover off. See Photo A.

TO REMOVE PUMP HANDLE:

Rotate top clip to remove pump handle. See Photos B and C.

TO UNFOLD PLATFORM (OUT):

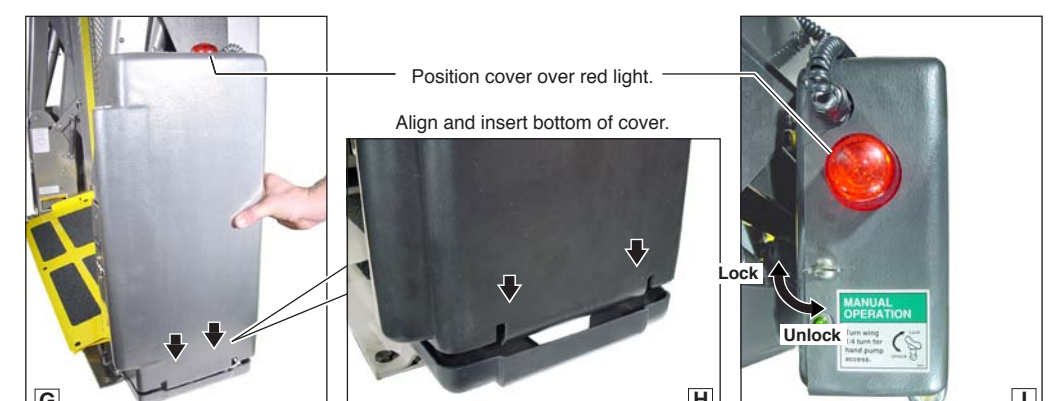
Using hand pump handle (Photo E):

1. Close hand pump valve (place slotted end of pump handle onto backup pump release valve and turn clockwise).
2. Insert handle in pump and stroke until platform folds fully (stops). See Photo F.
3. Open hand pump valve (turn counterclockwise) until platform reaches floor level. **Open 1/2 turn only.**
4. Close hand pump valve (turn clockwise).

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

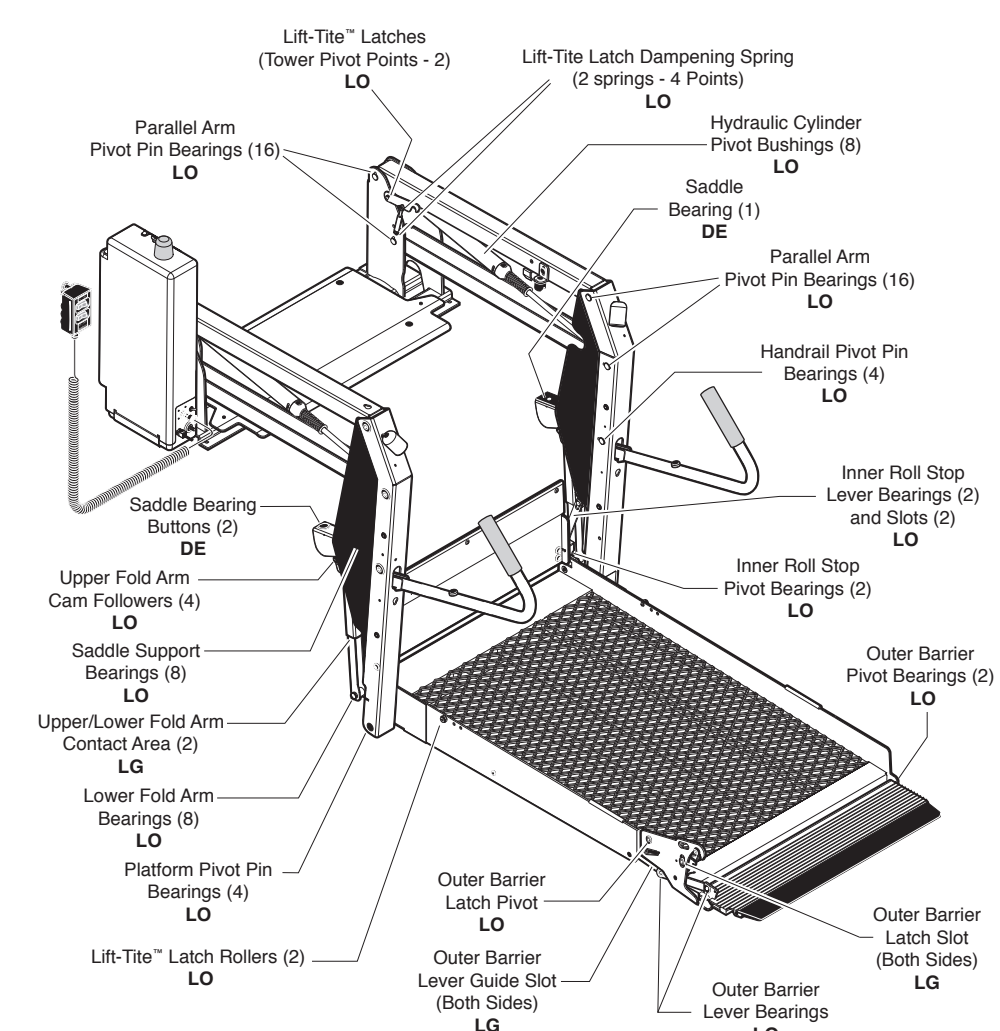
DOWN (TO LOWER):

Place slotted end of pump handle onto backup pump release valve and turn counterclockwise (open — 1/2 turn only) until the platform reaches ground level and outer barrier unfolds.



Maintenance and Lubrication

Lubrication Diagram



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	11 oz. Aerosol Can	15807
DE - Door-Ease	Stainless Stick Style (tube)	Door-Ease Stick (tube)	1.68 oz.	15806
LG - Light Grease	Light Grease (Multipurpose)	Lubriplate	14 oz. Can	15805

Maintenance and Lubrication Schedule

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

The maintenance and lubrication procedures specified in this schedule must be performed by a Braun authorized service representative at the scheduled intervals according to the number of cycles.

Braun dual parallel arm 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 above).

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 begin to blink after every 750 cycles. The blinking LED will not affect the functions of the lift, but is a reminder to complete necessary maintenance and lubrication.

Once the lift has been serviced, fully stow the lift. Once stowed, press the UP button on the hand pendant and the Floor Level Set button on the back side of the pump cover until the Lift Ready green LED stops blinking.

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.

Outer barrier pivot points (2)	Apply Light Oil - See Lubrication Diagram
Outer barrier latch pivot point	Apply Light Oil - See Lubrication Diagram
Outer barrier latch slot	Apply Light Grease to both sides of slot. See Lubrication diagram
Outer barrier lever bearings (2)	Apply Light Oil - See Lubrication Diagram
Lift-Tite™ latches (tower pivot points - 2)	Apply Light Oil - See Lubrication Diagram
Lift-Tite™ latch gas (dampening) spring pivot points (2 springs - 4 points)	Apply Light Oil - See Lubrication Diagram
Inspect Lift-Tite™ latches and gas springs for wear or damage (bent, deformed or misaligned), positive securement (external snap rings) and proper operation	Resecure, replace damaged parts or otherwise correct as needed. Note: Apply Light Grease to Lift-Tite™ latch tower pivot point if replacing latch.
Inspect outer barrier for proper operation	Correct or replace damaged parts.

Maintenance and Lubrication

750 Cycles	Inspect outer barrier latch for proper operation, positive securement, and detached or missing spring	Correct or replace damaged parts and/or relubricate. See Lubrication Diagram
	Inspect lift for wear, damage or any abnormal condition	Correct as needed.
	Inspect lift for rattles	Correct as needed.
	Adjust fold pressure and outer barrier fold pressure (if applicable).	See applicable service manual.
	Verify FMVSS 403/404 Certification Checklist	See FMVSS 403/404 Certification Checklist

Perform all procedures listed in previous section also		
Upper/lower fold arms (2)	Apply grease (synthetic) to contact areas between upper/lower fold arms. See Lubrication Diagram	
Platform pivot pin bearings (4)	Apply Light Oil - See Lubrication Diagram	
Lower fold arm bearings (8)	Apply Light Oil - See Lubrication Diagram	
Inner roll stop pivot bearings (2)	Apply Light Oil - See Lubrication Diagram	
Inner roll stop lever bearings (2)	Apply Light Oil - See Lubrication Diagram	
Inner roll stop lever slot (2)	Apply Light Oil - See Lubrication Diagram	
Saddle support bearings (8)	Apply Light Oil - See Lubrication Diagram	
Upper fold arm cam followers (4)	Apply Light Oil - See Lubrication Diagram	
Parallel arm pivot pin bearings (16)	Apply Light Oil - See Lubrication Diagram	
Handrail pivot pin bearings (4)	Apply Light Oil - See Lubrication Diagram	
Hydraulic cylinder pivot bushings (8)	Apply Light Oil - See Lubrication Diagram	
Outer barrier lever guide slot	Apply Light Grease to both sides of slot. See Lubrication Diagram	
Inspect Lift-Tite™ latch rollers for wear or damage, positive securement and proper operation (2)	Correct, replace damaged parts and/or relubricate.	
Inspect inner roll stop for: • Wear or damage • Proper operation. Roll stop should just rest on top surface of the threshold plate. • Positive securement (both ends)	Resecure, replace or correct as needed. See Platform Angle Instructions and Platform Floor Level Adjustment.	
Inspect handrail components for wear or damage, and for proper operation	Replace damaged parts.	
Inspect microswitches for securement and proper adjustment.	Resecure, replace or adjust as needed. See Microswitch Adjustment Instructions.	
Make sure lift operates smoothly	Realign towers and vertical arms. Lubricate or correct as needed.	
Inspect external snap rings: • Lower fold arm (6) • Lift-Tite™ latch roller (2) • Lift-Tite™ latch gas (dampening) spring (4) • Upper fold arm cam followers (4) • Outer barrier hydraulic cylinder mounting pin (2) • Inner roll stop lever bracket pins (2)	Resecure or replace if needed.	
Inspect inner roll stop locks (2) and torsion springs (2) for wear or damage and for proper operation.	Replace damaged parts. Apply Light Oil to inner roll stop lock pivot point.	
Inspect lower fold arm pins (2), axes (2) and bearings (8) for wear or damage and positive securement	Replace damaged parts and resecure as needed. Apply Light Oil.	
Remove pump module cover and inspect: • Hydraulic hoses, fittings and connections for wear or leaks • Harness cables, wires, terminals and connections for securement or damage • Control board, circuit breaker, power switch and lights for securement or switch	Resecure, replace or correct as needed.	

Perform all procedures listed in previous section also		
Inspect cotter pins on platform pivot pin (2)	Resecure, replace or correct as needed	
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 32840-QT hydraulic fluid (Exxon™ Univis HV126). 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 overflow. If fluid level decal is not present - measure 1-3/8" from the fill port to locate fluid level.	
Inspect cylinders, fittings and hydraulic connections for wear, damage or leaks	Tighten, repair or replace if needed.	
Inspect outer barrier cylinder hose assembly (hose, fasteners, connections, etc.) for wear, damage or leakage	Tighten, repair or replace if needed.	
Inspect parallel arms, bearings and pivot pins for visible wear or damage	Replace if needed.	
Inspect parallel arm pivot pin mounting bolts (8)	Tighten or replace if needed.	
Inspect platform pivot pins, bearings and vertical arms for wear, damage and positive securement	Replace damaged parts and resecure as needed. Apply Light Grease during reassembly procedures.	
Inspect upper/lower fold arms, saddle, saddle support and associated pivot pins and bearings for visible wear or damage	Replace if needed.	
Inspect gas springs (cylinders) for wear or damage, proper operation and positive securement.	Tighten, replace or correct as needed	
Inspect saddle bearing (1) and saddle bearing buttons (2)	Apply Door-Ease or replace if needed. See Lubrication Diagram.	
Inspect vertical arm plastic covers	Resecure or replace if needed.	
Inspect power cable	Resecure, repair 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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