

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 of the transit agency daily service program. Simple inspections can detect potential problems.

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

NCL-2 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 BraunAbility (part numbers provided on page 40).

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.

Cycle Counter: NCL-2 Series lift models are equipped with a cycle counter located on the top

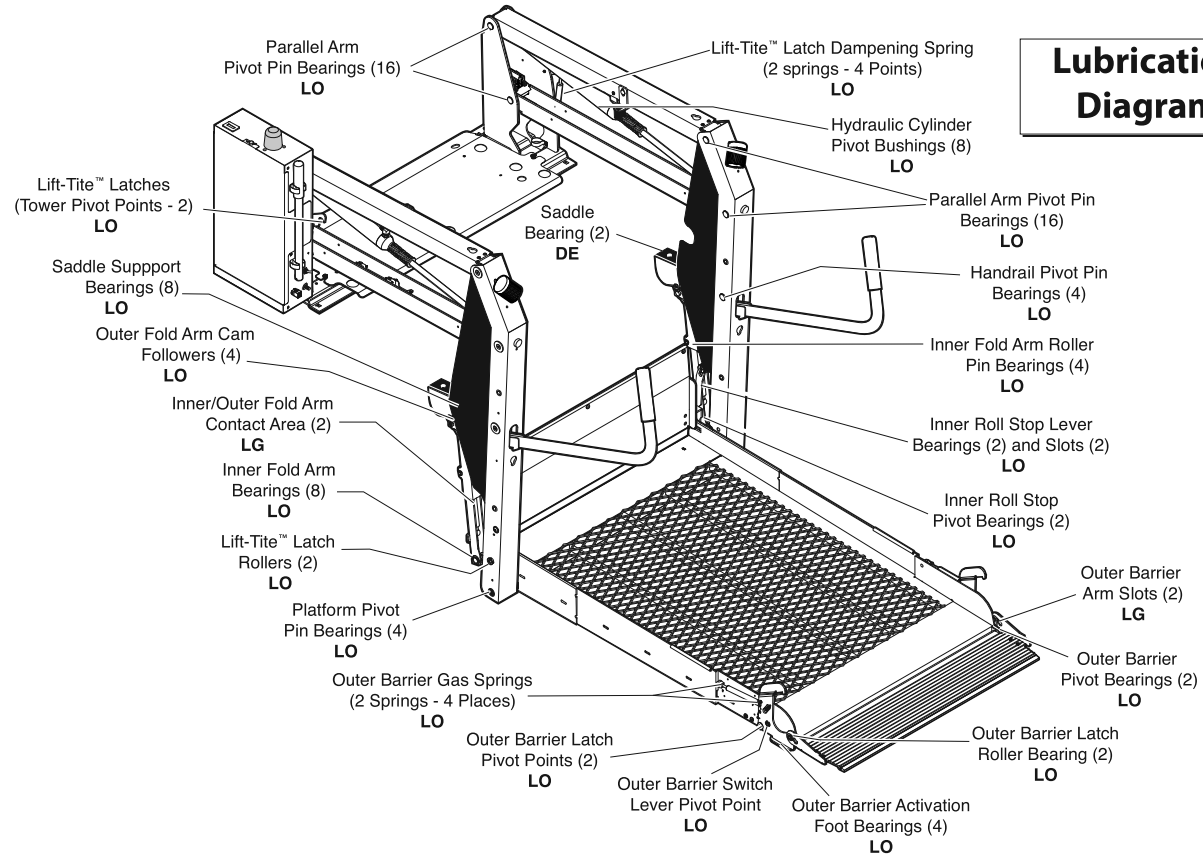
of the pump module. This cycle counter allows the lift attendant/operator to easily track the number of cycles during daily inspections of the lift.

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 BraunAbility at 1-800-488-0359. One of our Aftersales 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	BraunAbility 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
LG - Light Grease	Light Grease (Multipurpose)	Lubriplate	14 oz. Can	15805

Maintenance and Lubrication



Maintenance and Lubrication Schedule

750 Cycles	Outer barrier pivot points (2)	Apply Light Oil - See Lubrication Diagram
	Outer barrier latch pivot points (2)	Apply Light Oil - See Lubrication Diagram
	Outer barrier switch lever pivot point	Apply Light Oil - See Lubrication Diagram
	Outer barrier latch roller bearing (2)	Apply Light Oil - See Lubrication Diagram
	Outer barrier arm slots (2)	Apply Light Grease - See Lubrication Diagram
	Outer barrier gas springs (2 springs - 4 points)	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 (dampening) springs for wear or damage (bent, deformed or misaligned), positive securement (lock nuts / 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.
continued	Inspect outer barrier latch for proper operation, positive securement, and detached or missing spring(s)	Correct or replace damaged parts and/or relubricate. See Lubrication Diagram
	Adjust fold pressure	See Platform Fold Pressure Adjustment in Service Manual

Maintenance and Lubrication Schedule

continued 750 Cycles	Verify NHTSA Operations Checklist	See NHTSA Operations Checklist.
	Inspect lift for wear, damage or any abnormal condition	Correct as needed.
	Inspect lift for rattles	Correct as needed
1500 Cycles continued	Perform all procedures listed in previous section also	
	Inner/outer fold arms (2)	Apply grease (synthetic) to contact areas between inner/outer fold arms. See Lubrication Diagram.
	Platform pivot pin bearings (4)	Apply Light Oil - See Lubrication Diagram
	Inner 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
	Outer fold arm roller pin bearings (4)	Apply Light Oil - See Lubrication Diagram

Maintenance and Lubrication Schedule

<div>continued</div> <div>1500 Cycles</div> <div>continued</div>	Inner 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
	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: <ul style="list-style-type: none"> • 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 Tower Micro-switch Adjustment Instructions.
	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.

Maintenance and Lubrication Schedule

continued	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.
1500 Cycles	Inspect external snap rings: • Inner fold arms (6) • Lift-Tite™ latch rollers (2) • Lift-Tite™ latch gas (dampening) spring (4) • Outer barrier latch gas springs (2) • Outer barrier latch pivots (2) • Outer barrier switch lever pivot (1) • Outer barrier latch rollers (2) • Outer fold arm cam followers (4) • Outer fold arm roller pins (4) • Outer roll stop lever bracket pins (2) • Platform Fold Link (2)	Resecure or replace if needed.
	Inspect inner fold arm pins (2), axles (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 • Relays, fuses, power switch and lights for securement or damage	Apply Light Oil. Resecure, replace or correct as needed.

Maintenance and Lubrication Schedule

4500 Cycles	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 BraunAbility 32840-QT hydraulic fluid (Exxon® Univis HVI 26). 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 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 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 synthetic grease during reassembly procedures.
continued	Inspect inner/outer fold arms, saddle, saddle support and associated pivot pins and bearings for visible wear or damage	Replace if needed.

Maintenance and Lubrication Schedule

<div>continued</div> <div>4500 Cycles</div>	<div>Inspect gas springs (cylinders-6) for wear or damage, proper operation and positive securement</div> <div>Tighten, replace or correct as needed</div> <div>Inspect saddle bearing (UHMW - 2)</div> <div>Apply Door-Ease or replace if needed. See Lubrication Diagram.</div> <div>Inspect vertical arm plastic covers</div> <div>Resecure or replace if needed.</div> <div>Inspect power cable</div> <div>Resecure, repair or replace if needed.</div> <div>Mounting</div> <div>Check to see that the lift is securely anchored to the vehicle and there are no loose bolts, broken welds, or stress fractures.</div> <div>Decals and Antiskid</div> <div>Replace decals if worn, missing or illegible. Replace antiskid if worn or missing. See Decals and Antiskid section on pages 36-38.</div>
<div>Consecutive 750 Cycle Intervals</div>	<div>Repeat all previously listed inspection, lubrication and maintenance procedures at 750 cycle intervals.</div>