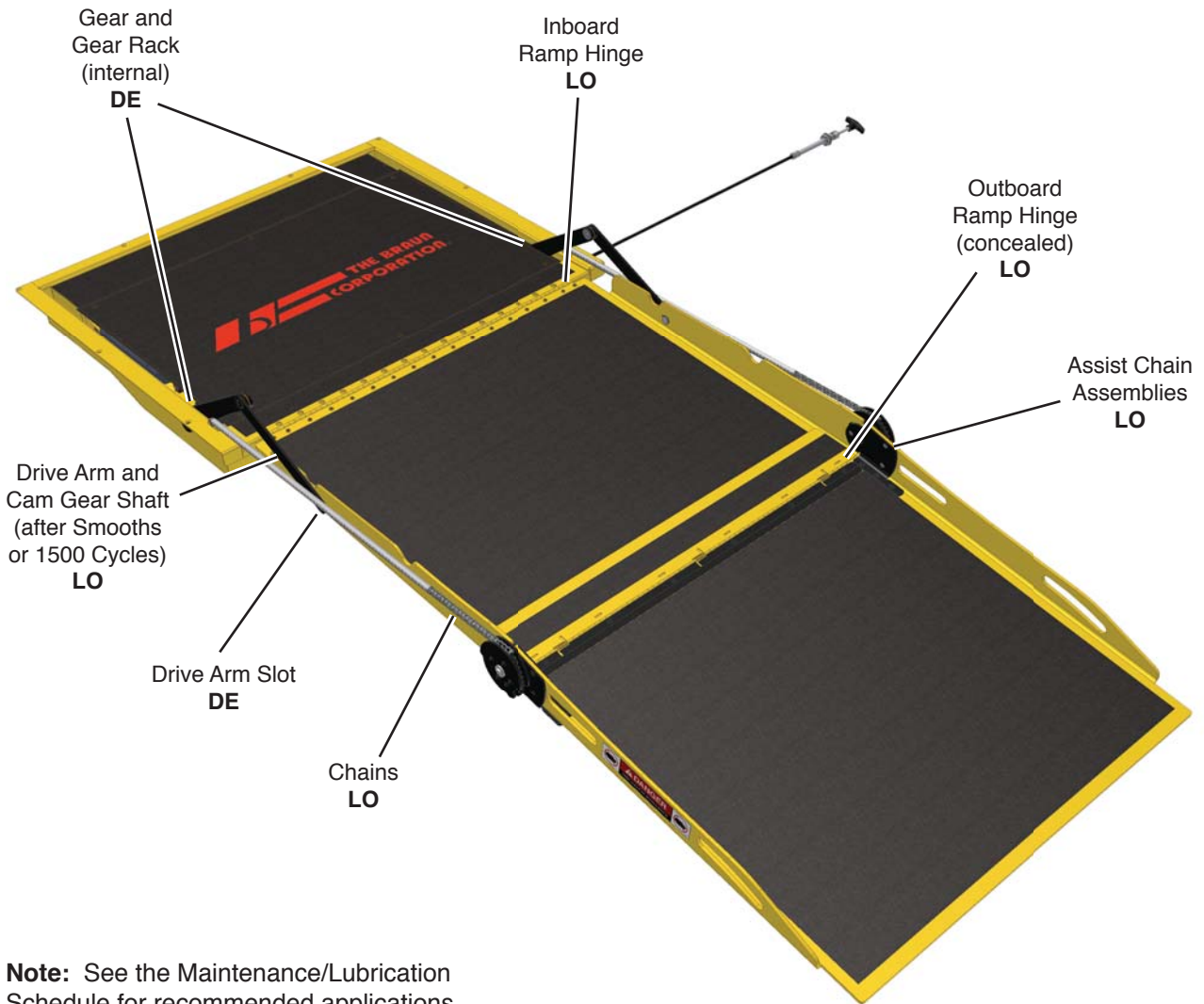


MAINTENANCE and LUBRICATION

Lubrication Diagram



Note: See the Maintenance/Lubrication Schedule for recommended applications per number of cycles or elapsed time.

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
LG - Light Grease	Light Grease (Multipurpose)	Lubricate	14 oz. Can	15805

MAINTENANCE and LUBRICATION

Maintenance and Lubrication Introduction

Proper maintenance is necessary to ensure safe, trouble-free operation. Inspecting the ramp 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.

Preventive maintenance visual inspections **do not** take the place of the procedures specified in this schedule.

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 or elapsed time, whichever comes first.

RA300 Series ramps are equipped with hardened pins and self-lubricating bearings to decrease wear, provide smooth operation and extend the service life of the ramp.

When servicing the ramp at the consecutive recommended intervals, inspection and lubrication procedures specified in the previous sections should be performed (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. Ramp components exposed to contaminants when lowered to the ground may require extra attention. Specified lubricants are available from The Braun Corporation (part numbers provided).

All listed inspection, lubrication and maintenance procedures should be repeated at 750 cycle intervals following the scheduled 1500 cycle maintenance procedures. These intervals are a general guideline for scheduling maintenance procedures and will vary according to ramp use and conditions.

⚠️ 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.

Ramps 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: RA300 Series ramps are equipped with a cycle counter located in the pan weldment. This cycle counter allows the service technician to track the number of cycles.

Discontinue ramp 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. One of our national Product Support representatives will direct you to an authorized service technician who will inspect your ramp.

Maintenance and Lubrication Schedule

750 Cycles	Inboard ramp hinge	Clean and lubricate. Apply Light Oil - See Lubrication Diagram
	Outboard ramp hinge	Clean and lubricate. Apply Light Oil - See Lubrication Diagram
	Drive arm pivot pins (screws, nuts and bearings)	Apply Light Oil - See Lubrication Diagram
	Drive arm and cam gear pivot shaft	Apply Light Oil - See Lubrication Diagram
continued		

MAINTENANCE and LUBRICATION

<p>continued</p> <p>750 Cycles</p>	Chains at gears and chain assist assemblies	Clean and lubricate. Apply Light Oil - See Lubrication Diagram
	Drive arm slot	Apply Door-Ease. See Lubrication Diagram
	Inspect drive arm pivot points (mounting screws, nuts and bearings) for positive securement, wear or damage	Tighten, replace or correct as needed.
	Inspect drive arm slots for excessive wear or damage	Correct as needed
	Clean ramp and ramp mounting area (ensure no debris in area to obstruct stowing/stacking)	Clean and remove debris or obstructions
	Cycle ramp and observe drift speed during deploy and stow functions	If drifts too fast, adjust applicable Drift Micro-switch Cam so drift begins at reduced height.
	Inspect ramp for wear, damage or any abnormal condition.	Correct as needed

<p>1500 Cycles</p>	<p>Perform all procedures listed in previous section also</p>	
	Remove sub floor (pan cover) and clean dirt and other foreign debris	Blow out with air compressor
	Remove sub floor (pan cover) and lubricate drive arm gear and cylinder gear rack	Clean and lubricate. Apply Door-Ease
	Remove sub floor (pan cover) and inspect:	
	<ul style="list-style-type: none"> • Pump mounting bolts for securement (loose or missing) 	Resecure, adjust microswitches, replace damaged parts or otherwise correct as needed.
	<ul style="list-style-type: none"> • Drive arm and gear rack weldment teeth for foreign objects, wear or damage (bent, deformed, misaligned), positive securement and proper operation 	
	<ul style="list-style-type: none"> • Gear rack weldment pin securement E-clip (loose or missing) 	
	<ul style="list-style-type: none"> • Hydraulic cylinder, hoses, fittings and connections for wear, damage or leaks 	
	<ul style="list-style-type: none"> • Harness cables, wires, terminals and connections for securement or damage 	
	<ul style="list-style-type: none"> • Relays for securement or damage • Microswitches and cams for securement and adjustment • Microswitch wires and terminals for securement or damage 	

MAINTENANCE and LUBRICATION

<p>continued</p> <p>1500 Cycles</p>	<p>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.</p> <p>Inspect vehicle-to-ramp wiring harness</p> <p>Mounting</p> <p>Decals and Antiskid</p>	<p>Use Braun 32840-QT hydraulic fluid (Exxon® Unisvis HVI 26). Do not mix with Dextron III or other hydraulic fluids. Check fluid level with ramp fully deployed. Fill to maximum fluid level indicated on reservoir (fill line molded in reservoir). Do not overfill.</p> <p>Resecure, repair or replace or otherwise correct as needed</p> <p>Check to see that the ramp is securely anchored to the vehicle and there are no loose bolts, broken welds, or stress fractures.</p> <p>Replace decals if worn, missing or illegible. Replace antiskid if worn or missing.</p>
<p>Consecutive 750 Cycle Intervals</p>	<p>Repeat all previously listed inspection, lubrication and maintenance procedures at 750 cycle intervals (or per vehicle maintenance schedule).</p>	