

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 provides service-related material. Refer to the FMVSS No. 403 Quick Reference Installation Sheet for installation instructions, operating instructions and maintenance procedures.

Braun Millennium Series[™] lifts are built for dependability and will provide years of pleasure and independence as long as the lift is installed and serviced as specified by a Braun certified technician, and the lift is operated by an instructed person.

Sincerely, THE BRAUN CORPORATION

Rall W. Grown

Ralph W. Braun Chief Executive Officer

Warranty and Registration Instructions

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

Two warranty/registration cards (shown right) are located in the lift-mounted manual storage pouch. 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 warranty is provided in this manual. The warranty cards must be processed to activate the warranty.

Мо	del No.	Serial No.	
[01	WNER'S WARRANTY REGISTRATION	I
	x000000000) x0:-X0000X	
	PURCHASED FROM		
		OWNER	
	NAME		DATE INSTALLED
	ADDRESS		
	CITY		
	TELEPHONE	STATE	ZIP
	REGISTRATION C	TO VALIDATE WARRANTY ARDS MUST BE RETURNED TO THE BRAUN O	CORPORATION.

Sample Warranty/Registration Card

Two Braun Serial No./Series No. identification tags (shown below) are posted on the lift. One I.D. tag is posted on the opposite pump side vertical arm. A second I.D. tag is located on the opposite pump side tower. Both I.D. tags provide the product identification information provided on the warranty/registration card. Record the information in the space provided (or document on a copy). This information must be provided when filing a warranty claim or ordering parts.

The Braun Corporation 1-800-THE-LIFT™ BRAUNLIFT.COM™	
DOT Public Use Lift MODEL#	► Model No
Max. Lifting Capacity - 600Lbs. SERIAL NUMBER XX-XXXXX -	Serial No
MFG DATE XX/XX/XXXX	 Date of Manufacture
CE	

Sample Serial No./Series No. Identification Tag

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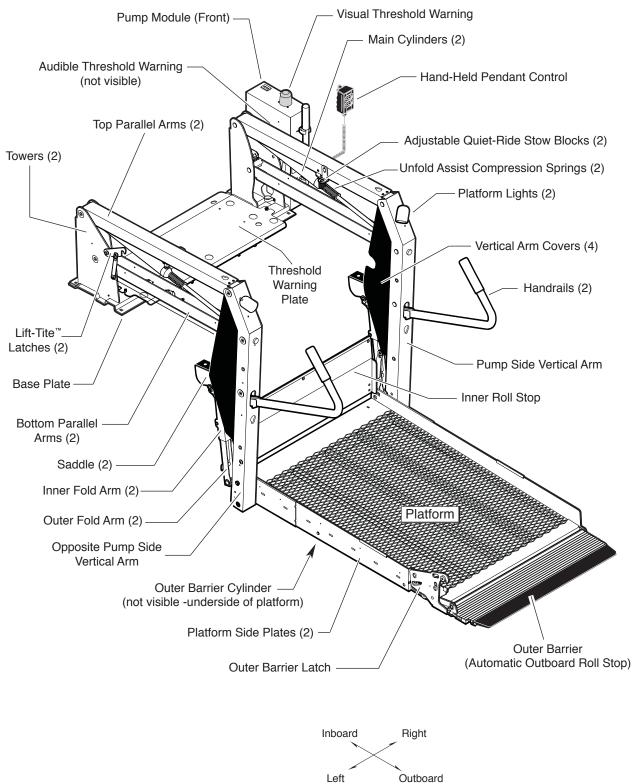
Lift Exploded Views and Parts Lists

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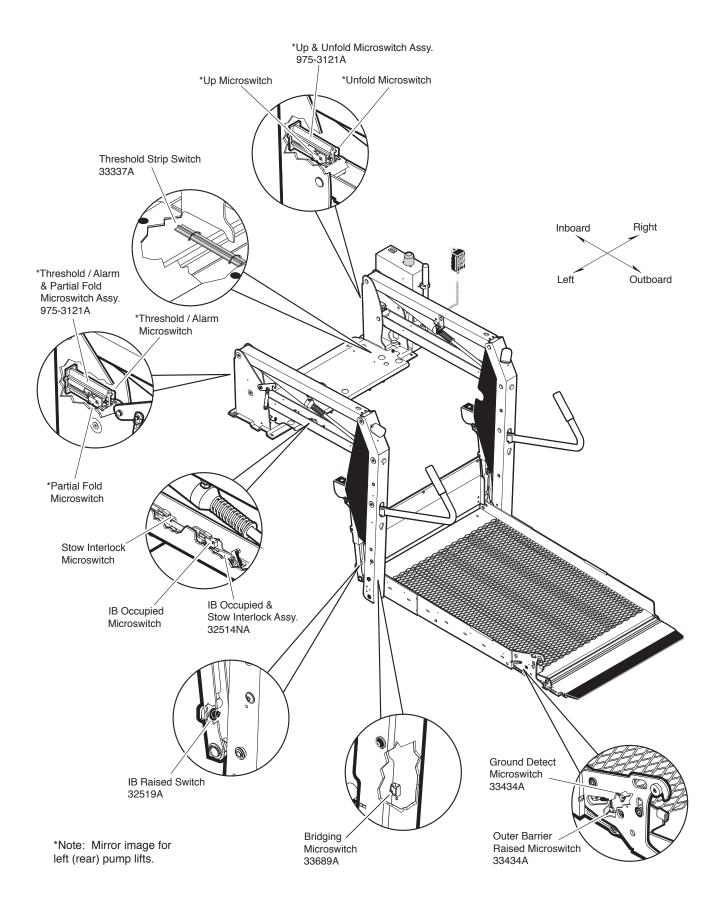
Warranty

Braun® Limited Warranty 33-35	
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Lift Terminology



Switch and Sensor Locations



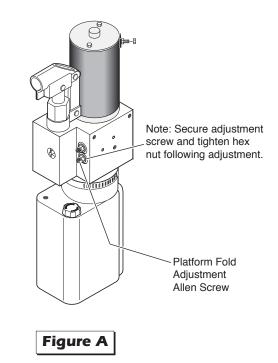
Certification Checklist Diagnostic Procedures

The following operations and conditions must be functionally verified in order for the lift to be FMVSS 403/404 compliant. If an operation does not function as described or a condition is not met, follow the referenced procedures to correct the problem or contact a Braun Corporation Product Support representative.

- Vehicle movement is prevented unless the lift door is closed, ensuring the lift is stowed.
 - 1. Verify on the pump module mounted interlock connecter that the lift stowed signal pin 9 has a ground signal OR lift not stowed signal pin 5 has an open signal (depends on interlock used).
 - 2. Refer to the interlock installation instructions.
- Lift operation shall be prevented unless the vehicle is stopped and vehicle movement is prevented.
 - 1. Verify vehicle secure signal (pin 6) has a +12 volt signal.
 - 2. Refer to the interlock installation instructions.
- The platform will not fold/stow if occupied.
 - Refer to Platform Fold Pressure Adjustment procedures.
- The inner roll stop will not raise if occupied.
 - Call Product Support
- The outer barrier will not raise if occupied.
 - Refer to Outer Barrier Fold Pressure Adjustment procedures.
- Verify platform lighting when lift is deployed and pendant illumination when lift is powered.
 - 1. Replace bulb(s) in the light housing.
- A warning will activate if the threshold area is occupied when the platform is at least 1" below floor level.
 - 1. Remove the threshold warning plate.
 - 2. Verify the threshold strip switch connector is securely connected.
 - 3. Reinstall threshold warning plate.
 - 4. Test threshold warning (push down on plate). If warning is not activated, see Step 5.
 - 5. Remove the threshold warning plate and replace non-functioning threshold switch.
 - 6. Repeat Step 4. If warning is still not activated, call Product Support.
- Platform movement is prohibited beyond the position where the inner roll stop is fully deployed (up).
 - Call Product Support.
- Platform movement shall be interrupted unless the outer barrier is deployed (up).
 - Call Product Support.

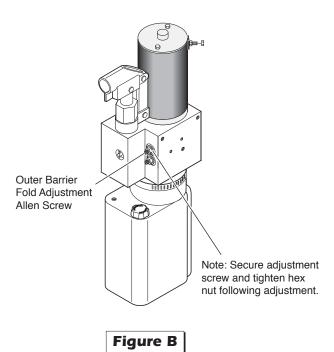
Platform Fold Pressure Adjustment

- See Tower 4 (Fold) Switch Adjustment in the Tower Microswitch Adjustment section for proper microswitch setting before adjusting the platform fold pressure.
- 2. Position the platform at the floor level loading position.
- 3. Loosen the hex nut on the adjustment screw (do not remove hex nut).
- 4. Turn the adjustment screw counter clockwise until the platform does not fold when the Fold button is pressed.
- 5. Turn the adjustment screw clockwise in 1/4 turn increments and press the Fold button until the platform folds completely. Note: Return the platform to floor level position after each attempt to fold the platform.
- 6. Turn the adjustment screw an additional 1/8 turn after the platform folds successfully.
- 7. Tighten the hex nut without moving the adjustment screw.
- 8. Verify the platform will not stow while occupied.



Outer Barrier Fold Pressure Adjustment

- 1. Lower the platform to the ground level loading position.
- 2. Loosen the hex nut on the adjustment screw (do not remove hex nut).
- Turn the adjustment screw counter clockwise until the outer barrier does not raise when the Up button is pressed.
- 4. Turn the adjustment screw clockwise in 1/4 turn increments until the outer barrier raises and fully locks in position when the Up button is pressed.
- 5. Turn the adjustment screw an additional 1/8 turn after the outer barrier folds successfully.
- 6. Tighten the hex nut without moving the adjustment screw.
- Verify the outer barrier will not raise when occupied.



Platform Angle Adjustment

Lowering Sequence Requirements

1. The outboard end (toe) of the platform must contact the ground first to ensure the spring-loaded outer barrier unfolds fully. See Figure A.

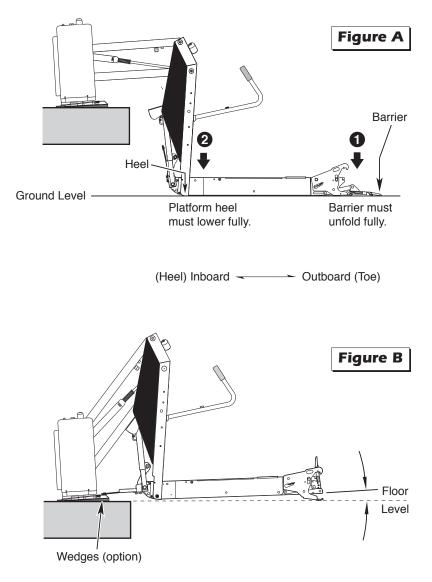
2. The inboard end (heel) of the platform must lower fully (vertical arms must contact ground when fully lowered). See Figure A.

The angle of the platform at ground level directly affects the angle of the platform when positioned at floor level.

Raise the platform to floor level. Note the angle of the platform.

The platform at floor level should have a slight upward angle as shown in Figure B.

Adjust platform angle as detailed below.



Adjustment Procedure:

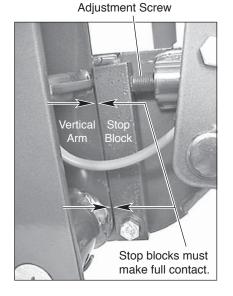
Platform angle adjustment Allen screws are provided on each side of the platform (see photo at right and details on following page).

Turn adjustment screws clockwise to raise the outboard end of the platform. Turn adjustment screws counterclockwise to lower the outboard end of the platform.

Both adjustment screws must be adjusted equally. Apply Loctite[®] to adjustment screws following adjustment.

Platform Stop Blocks: When adjusting platform angle, ensure both stop blocks are making full contact with the vertical arms (see photo at right and details on following page).

Floor Level Adjustment: Following platform angle adjustment, set platform floor level positioning as detailed in Tower Microswitch Adjustment.

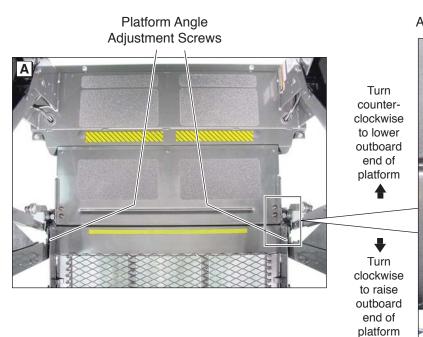


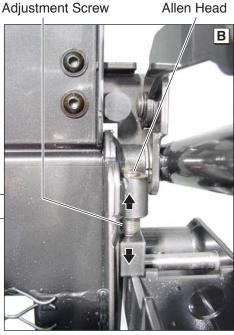
Platform Angle Adjustment

Adjustment Allen screws are provided on each side of the lift platform for adjusting the platform angle. Adjust platform angle as specified on previous page. To raise the outboard end of platform - turn adjustment screw clockwise.

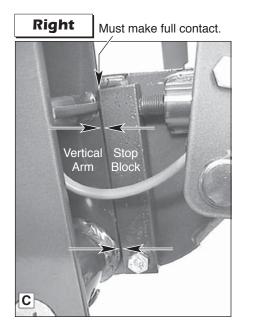
To lower the outboard end of platform - turn adjustment screw counterclockwise. Note: Both adjustment screws must be adjusted equally.

Apply Loctite® to adjustment screws following adjustment.





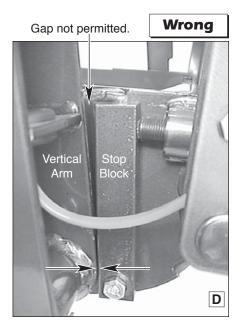
Platform Stop Blocks



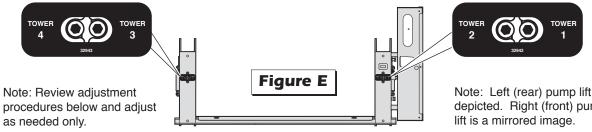
Stop Block Guideline All Lift Models

Both stop blocks must make full contact with the edge of vertical arms.

When adjusting platform angle, setting floor level position or adjusting bridging microswitch ensure both stop blocks are making full contact with the vertical arms.



Tower Microswitch Adjustment



Tower 1 (Unfold) Switch Adjustment

Floor Position from Stow

- 1. Position platform at the fully stowed position using the manual hand pump or pendant control.
- 2. Turn switch adjustment screw clockwise 3 full turns.
- 3. Press pendant UNFOLD switch (continue pressing switch until platform stops unfolding).
- 4. When platform stops unfolding, turn switch adjustment screw counterclockwise while pressing the pendant UNFOLD switch. Platform position will change. Repeat adjustment until criteria below is met.

Proper Adjustment Criteria:

- · Bridge plate should just rest on threshold plate (base plate).
- Should be an approximate 1/8" clearance between outboard end of rotating pivot slide arm saddle and the lower parallel arm. See Photo Α.

Tower 2 (Up) Switch Adjustment

Floor Position from Below Floor

- 1. Lower platform a minimum of 6" below floor level position using the manual hand pump or pendant control.
- 2. Turn switch adjustment screw counterclockwise 3 full turns.
- 3. Press pendant UP switch (continue pressing switch until platform stops).
- 4. When platform stops, turn switch adjustment screw clockwise while pressing the pendant UP switch. Platform position will change. Adjust platform to meet criteria listed for Tower 1 Switch "Proper Adjustment Criteria".

1/8" Α

Radius of Tower 4 Microswitch Blade activated by Apex of Activation Plate.



Note: Left (rear) pump lift depicted. Right (front) pump

Tower 3 (Alarm) Switch Adjustment Threshold Alarm Switch

- 1. Position platform at the fully raised (floor level) position using the pendant control.
- 2. Place pressure on the threshold warning plate (base plate). Continue applying pressure to threshold plate and turn switch adjustment screw clockwise until alarm sounds. If alarm sounds when pressure is first applied go to Step 3.
- 3. Continue applying pressure to threshold plate and slowly turn switch adjustment screw counterclockwise until the alarm stops sounding.

Tower 4 (Fold) Switch Adjustment Partial Fold

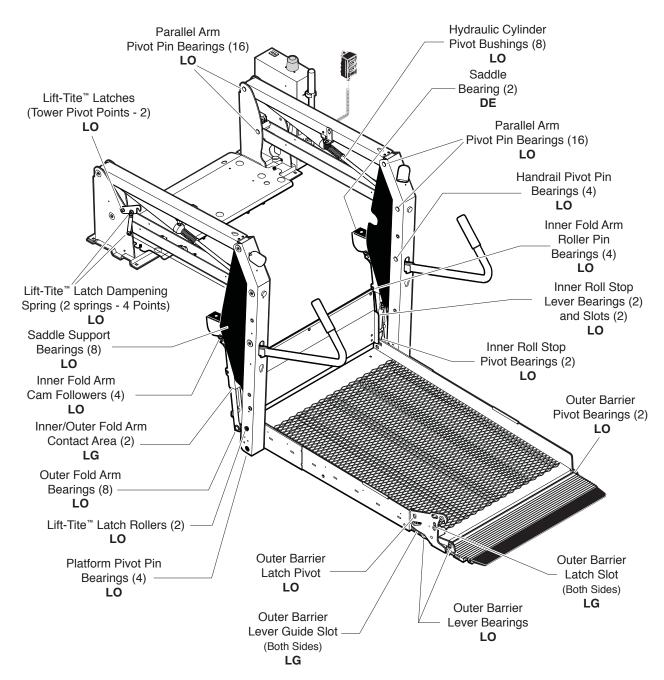
- 1. Position platform at 45° angle using the manual hand pump or pendant control.
- 2. View the Tower 4 microswitch inside the lift tower (see Photo B). Turn the switch adjustment screw in or out as needed until the radius of the microswitch blade rides on the apex of the activation plate.
- 3. Verify proper adjustment. Criteria below must be met.

Proper Adjustment Criteria:

- · Apply pressure (push down) on outboard end of platform by pressing the hand pendant FOLD switch. The platform should not fold (stow) with light pressure applied.
- · When folding fully, the platform should stow tightly (snug with stow blocks).

Maintenance and Lubrication

Lubrication Diagram



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

Lubricant	Туре	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)	Lubriplate	14 oz. Can	15805

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 on previous page). 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 auideline for scheduling maintenance procedures and will vary according to lift use and conditions. Lifts exposed to severe conditions (weather, environment, contami-

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.

nation, heavy usage, etc.) may require inspection and maintenance procedures to be performed more often than specified.

Cycle Counter: NL-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 The Braun Corporation. 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
750 Cycles	Lift-Tite [™] latch gas (dampening) spring pivot points (2 springs - 4 points)	Apply Light Oil - See Lubrication Diagram
Cycles	Inspect Lift-Tite [™] latches and gas 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.
	Inspect outer barrier latch for proper operation, positive securement, and detached or missing spring	Correct or replace damaged parts and/or relubri- cate. See Lubrication Diagram
continued	Adjust fold pressure and outer barrier fold pressure	See Platfold Fold Pressure Adjustment and Outer Barrier Fold Pressure Adjustment

	Verify FMVSS 403 / 404 Certification Checklist	See Certification Checklist Diagnostic Procedures
	Inspect lift for wear, damage or any abnormal condition	Correct as needed.
750 Cycles	Inspect lift for rattles	Correct as needed.
Cycles	Check roll stop cylinder for leaks	Place platform at floor level and remove drain plug from roll stop cylinder overflow chamber. If fluid is found, check again at 1,500 cycles, otherwise, check at 4,500 cycles. If the amount of fluid increases between inspections, the cylinder will need to be replaced.

	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
	Outer 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
	Inner fold arm roller pin bearings (4)	Apply Light Oil - See Lubrication Diagram
	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
1500	Outer barrier lever guide slot	Apply Light Grease to both sides of slot. See Lubrication Diagram
Cycles	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 Tower Microswitch 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.
continued		

	Inspect external snap rings: • Outer fold arm (6) • Lift-Tite [™] latch roller (2) • Lift-Tite [™] latch gas (dampening) spring (4) • Inner fold arm cam followers (4) • Inner fold arm roller pins (4) • Outer barrier hydraulic cylinder mounting pin (2) • Inner roll stop lever bracket pins (2)	Resecure or replace if needed.
1 500 Cycles	Inspect inner roll stop locks (2) and torsion springs (2) for wear or damage and for proper operation. Inspect outer fold arm pins (2), axles (2) and bearings (8) for wear or damage and positive securement	Replace damaged parts. Apply Light Oil to inner roll stop lock pivot point. 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 	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, fit- tings, seals, etc.) for leaks if fluid level is low.	Use Braun 32840-QT (Exxon® Univis HVI 26). Do not mix with Dextron III or other hydraulic flu- ids. Check fluid level with platform lowered fully. Fill to maximum fluid level indicated on reservoir (specified on decal). Do not overfill. If fliud 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.
4500	Inspect outer barrier cylinder hose assembly (hose, fasteners, connections, etc.) for wear, damage or leakage	Tighten, repair or replace if needed.
Cycles	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 inner/outer fold arms, saddle, saddle sup- port and associated pivot pins and bearings for visible wear or damage	Replace if needed.
	Inspect gas springs (cylinders - 4) for wear or dam- age, proper operation and positive securement	Tighten, replace or correct as needed
continued	Inspect saddle bearing (UHMW - 2)	Apply Door-Ease or replace if needed. See Lubrication Diagram.

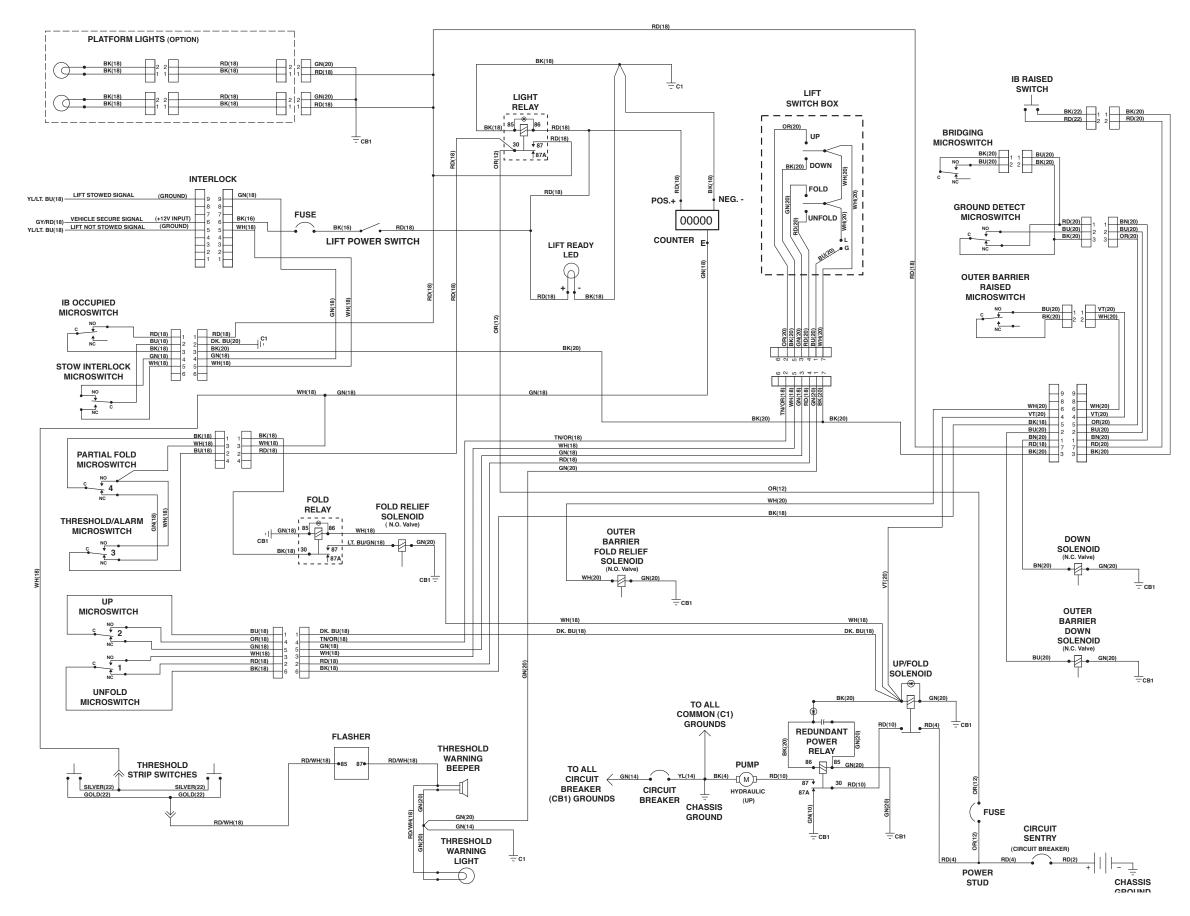
	Inspect vertical arm plastic covers Inspect power cable	Resecure or replace if needed. Resecure, repair or replace if needed.
4500 Cycles	Mounting	Check to see that the lift is securely anchored to the vehicle and there are no loose bolts, broken welds, or stress fractures.
	Decals and Antiskid	Replace decals if worn, missing or illegible. Replace antiskid if worn or missing.
Consecutive	Repeat all previously listed inspection, lubrica	7-

Consecutive	Repeat all previously listed inspection, lubrica-			
750 Cycle	tion and maintenance procedures at 750 cycle			
Intervals	intervals.			

NOTES

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Lift Electrical Schematic



DESCRIPTION	SYMBOL
CAPACITOR	—I(—
MICROSWITCH	C V NO NC
DIODE	-®-
FLASHER	-[]-
COUNTER	+1 1- 00000 E
RELAY	80 0 0 0 0 0 0 0 0 0 0 0 0 0
LIGHT	Œ
BEEPER	
BATTERY	+
CHASSIS GROUND	÷
CIRCUIT BREAKER/FUSE	\cdot
JUNCTION	-
MOTOR	
SOLENOID	•
SWITCH	· ·
CONNECTER	

NOTES:

1) JUNCTIONS ONLY OCCUR AT MARKED INTERSECTIONS. Unfold forical Lift Wiring Diagram Platform Lights (Option) Light Relay 21 43 12 4-COND WIRE COD -COND WIRE COD
 NO.
 COLOR

 1
 BLACK(18)

 2
 RED(18)

 3
 WHITE(18)

 4
 NOT USED

 NO.
 COLOR

 1
 BLACK(18)

 2
 BLUE(18)
 GN(18) _ _ _ _ _ BK(18) BK(18) BK(18) GN(18) SILVER(22) WH(18) SILVER(22) 51 321 654 987 123 455 789 RD(18) RD(18) 2 GN(20) Switch Box 9-COND WIRE CODE 9-COND WIRE CODE (As Viewed From Terminal Side of Switch) COLOR NOT USED COLOF NOT USED BK(18) RD(18) NOT USED WHITE(18) FUSE HOLDER BK NOT USED NOT USED _____ Up/Down Switch BK(18) BK(18) old/Unfold Switch Switch É Fuse 31797A GY/RD(18) VEHICLE SECURE SIGNAL +12V INPUT 一 B YL/LT. BU(18) 31798A YL/LT. BU(18) LIFT STOWED / NOT STOWED GROUND SIGNAL (Located in cavity #5 or #9 - see chart above) Lift Interlock $\begin{pmatrix} 2 & 1 \\ 5 & 4 & 3 \\ 7 & 6 \end{pmatrix}$ Ready Connection Ť DK/10 LED 33659 COLOR RD(18) 321 654 DK. BU(18) $\begin{pmatrix}1&2\\3&4&5\\6&7\end{pmatrix}$ BK(20) OR(12) 7-COND WIRE CODE NO. COLOR 鬬 BK(20) BK(20) 6-COND WIRE COL 33231A
 1-07

 RED(0)

 5

 WHITE(10)

 6

 NOT USED

 7

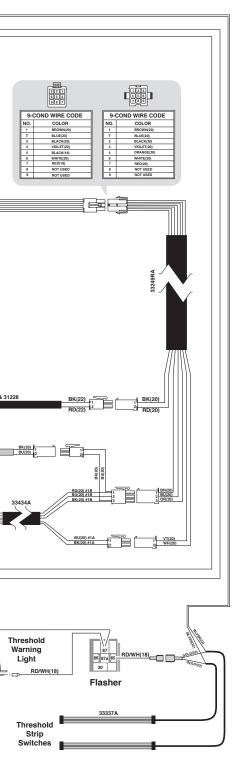
 BLACK/WW

 IO.
 COLOR

 1
 RED(18)

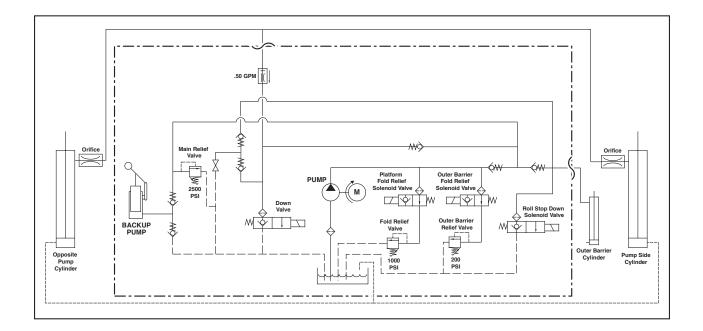
 2
 BLUE(18)

 3
 BLACK(18)
 BK(18) COM. WH(18) WH(18) GN(18) Partial Fold 32519A & 31228 IB Raised Microswitch IB Occupied Microswitch 321 854 123 BU(18) Threshold / Alarm Microswitch BK(18) Bridging Microswitch S RD(18) GN(18) 6-COND WIRE CODE NO. COLOR 1 BLUE(18) 2 RED(18) 3 WHITE(18) 6-COND WIRE CODE NO. COLOR 1 DK. BLUE(18) BU(18) GN(20) OR(18) GN(18) Ground Detect NC RD(20) #1B BU(20) #1B BK(20) #1B BK(20) #1B Microswitch 33255A Microswitch Fuse NF Stow BK(18) Unfold Pipe Interlock Outer Barrier WH(18) Outer Barrier Raised Microswitch BK(18) Microswitch RD(18) Fold Relief DK. BU(18) VT(20) GN(20 Fold Relief Up/Fold Hydraulic Solenoid 66 \cap Pump RD(10) **6**-5-3 Pump Module Power Feed 26082A-4 N(20) 4 Down M Outer Barrier Fold Relief Outer Barrier Down REDUNDANT POWER Ground FOLD RELAY Note polarity of diode. It must be oriented as shown relative to the GN(20) wire above. Detail shows two different styles of diode identification. GN(20) RELAY Fola Reliev -**|-**_ Power Stud GN(20) _ <u>β</u>. (Side view of olenoids removed BK(20) from pump.) WH(18) 86 87a 8 86 87a 85 GN(2) Circuit Sentry (Circuit Breaker) Lead Wire 13362A Outer Bat. BK(18) Barrier Down Circuit Connects to Vehicle Battery (+) Positive Post Breaker BU(20) GN(20) Back Plate BK(20)



NOTES: 1) JUNCTIONS ONLY OCCUR AT MARKED INTERSECTIONS.

Hydraulic Schematic



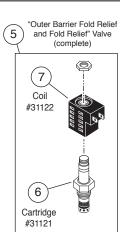
Description	Symbol	Description	Symbol
Fixed Displacement Pump	\diamondsuit	Hydraulic Port	5
Pump Motor	-(M)	2 Way 2 Position Solenoid Valve	rz ⊥⊺ ∳w
Backup Pump	Ì	Pressure Compensated Flow Control	Ţ,
Single Acting Cylinder		Relief Valve	
Check Valve	₩ŷ-	Filter Screen	¢
Unfold Orifice	×	Vented Reservoir	
Manual Shutoff Valve	Ż	Orifice	

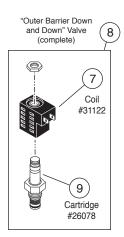
Hydraulics Parts List

Item	Qty.	Description	Part #
1	1	Pump Assembly (M-268-0117) 120G / 12V / Triple Relief	34330-12V
2	1	Clamp, Reservoir - H-48 (M259)	17069
3	1	Solenoid, 4-Post Trombetta - Angle	35310
4	1	Motor, Pump - 12 Volt - Low RPM	31350
5	2	Valve Assembly, "Outer Barrier Fold Relief and Fold Relief" (complete)	31120K
6	2	Cartridge (only), "Outer Barrier Fold Relief and Fold Relief" Valve - (shown below)	31121
7	4	Coil (only) - (shown below)	31122
8	2	Valve Assembly, "Outer Barrier Down and Down" (complete)	31348K
9	2	Cartridge (only), "Outer Barrier Down and Down" Valve - (shown below)	26078
10	1	Diode Assembly, Up Solenoid	73906A
11	1	Clamp, Hose - Solenoid Mounting	29663
12	1	Reservoir, Hydraulic Fluid	30160
13	1	Cap, Reservoir Filler - Screw On	30167
14	1	Fitting, 90° - 1/8" NPT x 1/8" Barb - Plastic	87563
15	1	Connector, Plastic "Y", 1/8" O.D.	18877
16	1	Hose, Thermal Plastic - Black, 1/8" I.D.	23742R*
17	1	Handle with Grip	17206A
18	2	Fitting, Male 7-16-20 SAE O-Ring to Male 7/16-20 JIC 37°	24504
19	1	Elbow, 7/16-20 JIC 37 Female Swivel (1) - 7/16-20 JIC 37° Male (2)	26579
20	1	Hose Assembly, 1/8" (Opposite-Pump-Side)	16004A-086
21	1	Hose Assembly, 1/8" (Pump-Side)	16004A-046
22	2	Elbow, 90°, 7/16-20 SAE O-Ring Male - 7/16-20 JIC 37° Male, Orifice	26667
23	2	Cylinder 🗸	C1514.3-0408N
24	2	Elbow, 90°, 1/4 NPT Male to 1/4" Barbed	15150
25	1	Cylinder, Rollstop w/Breather Vent (Includes Items 26-29)	33094A
26	1	Fitting, 90° - Male 7/16-20 SAE O-Ring to Male 7/16-20 JIC 37°	25085
27	1	Plug, Drain w/Gasket	35679
28	1	Nut, 1/2-20 Hex Jam	83022
29	1	Adapter, Cylinder - Roll Stop Lever	947-0344N
30	1	(Rear Pump) Hose Assembly, 139" x 3/16" Dia. w/Two Guards	915-2601-139
	1	(Front Pump) Hose Assembly, 183-1" x 3/16" Dia. w/Two Guards	915-2603-183-1
31	1	Kit, Hydraulic Port Service Cap	27049K

✓ Seal Kits: If repairing a cylinder, order Seal Kit #1500-0500P.

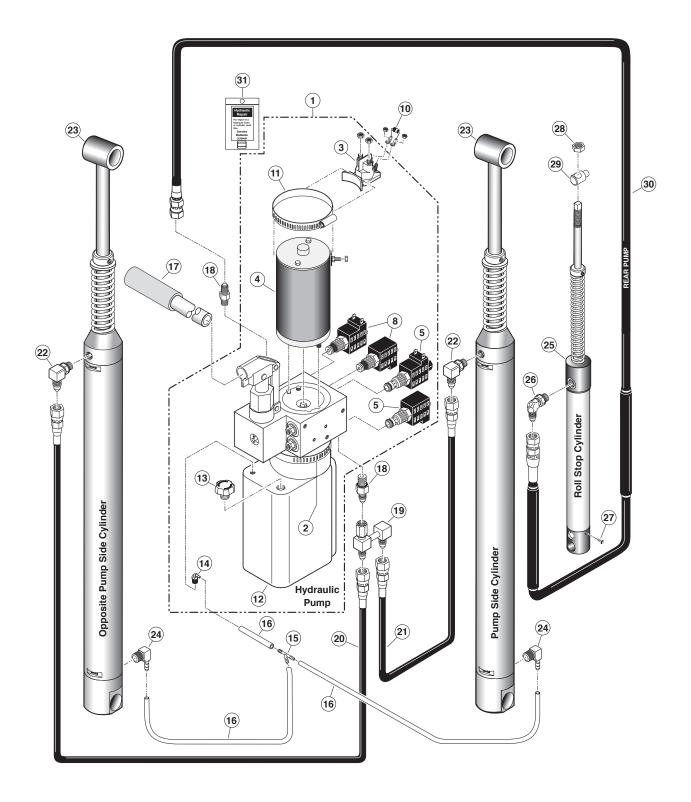
* Raw material items ordered and priced per inch (order specified length).





Hydraulic Fluid

When adding or changing hydraulic fluid, use Braun 32840-QT (Exxon® Univis HVI 26) hydraulic fluid (do not mix with Dextron III or other hydraulic fluids).

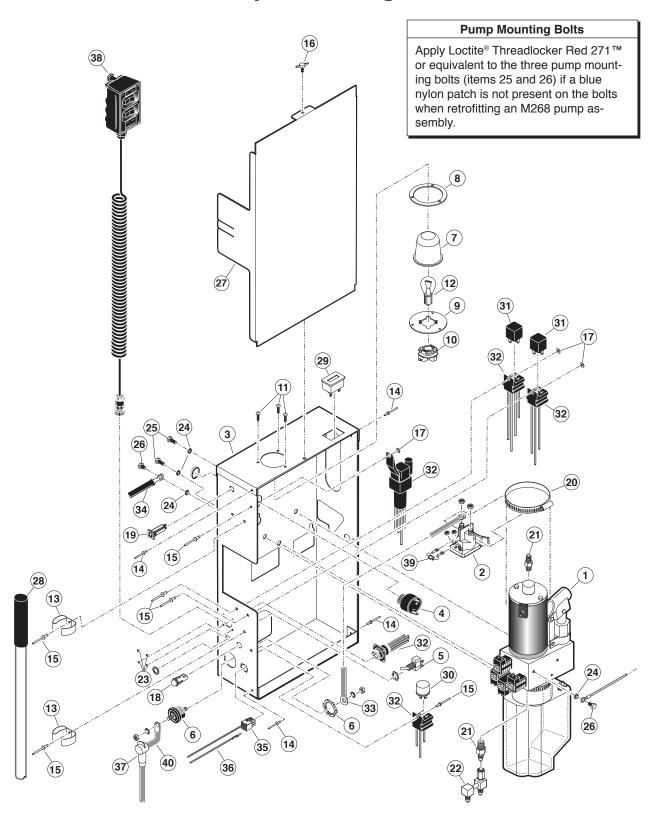


Pump Module Parts List

			NL917IB-2	NL917FIB-2
Item	Qty.	Description	NL919IB-2	NL919FIB-2
	1	Pump Module (complete), 12 Volt, Rear	947-4516RNA	947-4516FNA
1	1	Pump Assembly (M268-0117) 12V-120G - Triple Relief (Includes Items 1 & 2)	34330-12V	34330-12V
2	1	Solenoid, Up - 4-Post Trombetta - Angle	35310	35310
3 4	1	Housing, Pump (Complete Assembly 947-2513RNA or 947-2513FNA Includes Items 3 - 20) Beeper, Constant - High Output	947-2513RN 33251	947-2513FN 33251
5	1	Switch, Toggle w/ Gold Contacts	31787	31787
6	1	Stud, Power Feed	26084	26084
7	1	Lens, Threshold Warning - Red	30704	30704
8	1	Spacer, Lens - NHTSA	31386	31386
9	1	Metal Ring Base - Lamp	30971	30971
10	1	Socket, Lamp	30703	30703
11	3	Screw, #8-32 x 1/2" Pan Head Phillips - Thread Cut	30974	30974
12	1	Bulb. Light	19841	19841
13	2	Clamp, Spring - Pump Handle	12350	12350
14	4	Rivet, Pop, SD43BS - 1/8"13"/.19"	12954	12954
15	6	Rivet, Pop, SD64BS - 3/16"13"/.25"	11513	11513
16	1	Screw, #10-32 x 3/8", T-Head, Thumb	33435	33435
17	3	Washer, #10 Flat	11541	11541
18	1	Diode, Green LED	29545	29545
19	1	Circuit Breaker, Manual Reset - 15 Amp	35143	35143
20	1	Clamp, Hose - Solenoid Mounting	29663	29663
21	2	Fitting, Male 7/16-20 O-Ring to Male 7/16-20 JIC 37°	24504	24504
22	1	Elbow, Female Swivel 7/16-20 JIC 37° to (2) Male 7/16-20 JIC 37°	26579	26579
23	4	Rivet, Snap, .122" Dia158"197" Thick	25759	25759
24	4	Washer, 5/16" External Tooth	16368	16368
25	2	Bolt, 5/16-18 x 3/4", Nylock, Hex * See note below	29608	29608
26	2	Bolt, 5/16-18 x 1/2", Nylock, Hex * See note below	10012	10012
27	1	Cover, Pump Module	947-2519RN	947-2519FN
28	1	Pump Handle with Grip	17206A	17206A
29	1	Cycle Counter, LCD w/o Reset	30547	30547
30 31	1 2	Flasher, 12V Relay, 30/40A SPDT 12V with Internal Diode	32461 35249	32461 35249
32	1	Harness, Main	947-2500NA	947-2500NA
33	1	Cable, Pump Module Power	26082A-4	26082A-4
34	1	Cable, Lift / Chassis Ground	22166A	22166A
35	1	Wire Assembly, Lift Interlock Connection	31797A	31797A
36	1	Wire Assembly, Lift Stowed Connection ♦See note below	31798A	31798A
37	1	Rubber Boot, Red ♦See note below	82046	82046
38	1	Control, Hand Pendant Assembly - Non Electronic / Non Shielded - Coiled See note below	33659A	33659A
39	1	Diode Assembly, Up Solenoid	73906A	73906A
40	1	Harness, Lift Power ♦See note below	33688A	33688A
41	1	Harness, Tower / Opposite Pump (Not shown - see Wiring Diagram)	33231A	33231A
42	1	Harness, Bridge Inputs (Not shown - see Wiring Diagram)	33249RA	33249RA
43	1	Harness, IB Occupied / Stow (Not shown - see Wiring Diagram)	33257A	33257A
44	1	Harness, Tower / Pump Side (Not shown - see Wiring Diagram)	33255A	33255A
45	1	Harness, Extension Lighting - 54" (Not shown - see Wiring Diagram)	31033A54	31033A54
46	1	Harness, Extension Lighting - 99" (Not shown - see Wiring Diagram)	31033A99	31033A99
47	1	Hose Assembly, 86" - 1/8" Dia Swivel Ends (Not shown - see Hydraulic Diagram)	16004A-086	16004A-086
48	1	Hose Assembly, 46" - 1/8" Dia Swivel Ends (Not shown - see Hydraulic Diagram)	16004A-046	16004A-046
49	1	Hose Assembly, 3/16" Dia. w/Two Guards (Not shown - see Hydraulic Diagram)	915-2601-139	915-2603-183-1
50	1	Hose, 1/8" Thermal Plastic (Not shown - see Hydraulic Diagram)	23742R	23742R
51	1	Decal, Warning / Pressure Relief Valve (Not shown) ♦See note below	22249	22249
52	1	Decal, Lift Power - On/Off (Not shown) ♦See note below	21494	21494
53	1	Decal, Fold & Barrier Relief Valve Adjustment (Not shown) See note below	33223	33223
54	1	Decal, Manual Instructions - Public (Not shown) ♦See note below	32940	32940

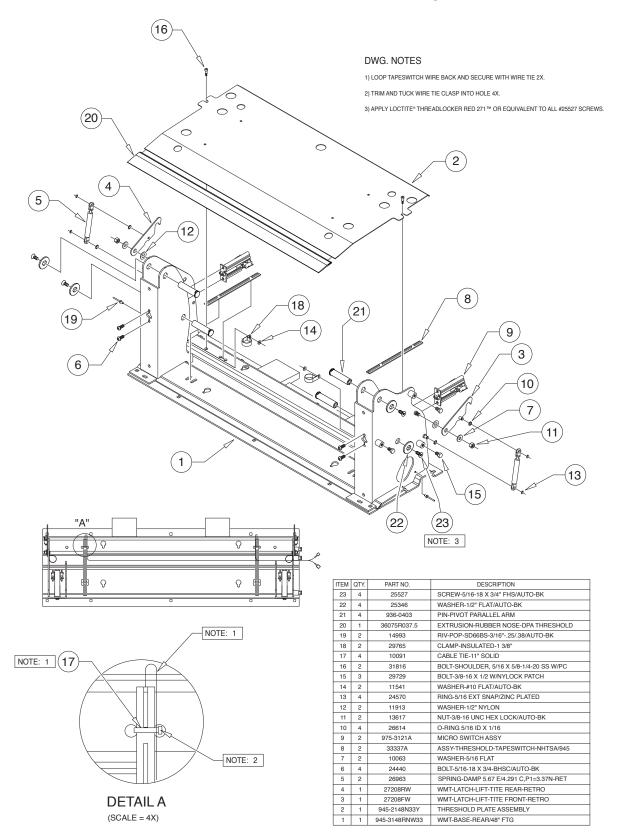
* Apply Locktite[®] Threadlocker Red 271[™] or equivalent to the three pump mounting bolts (items 25 and 26) if a blue nylon patch is not present on the bolts when retrofitting an M268-0117 pump assembly.
 ◆ Indicates items available for replacement part purposes only. These items are not included with replacement pump

modules.

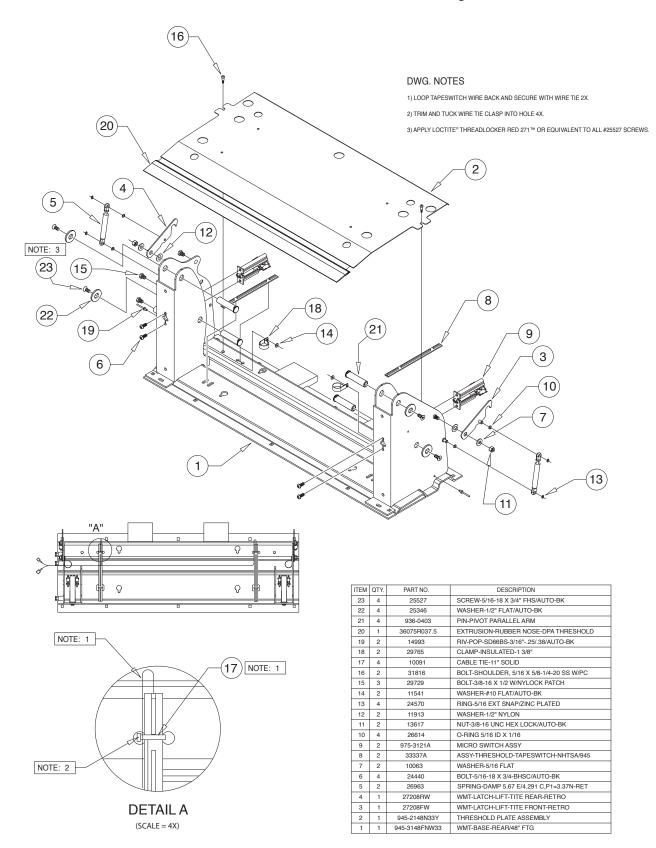


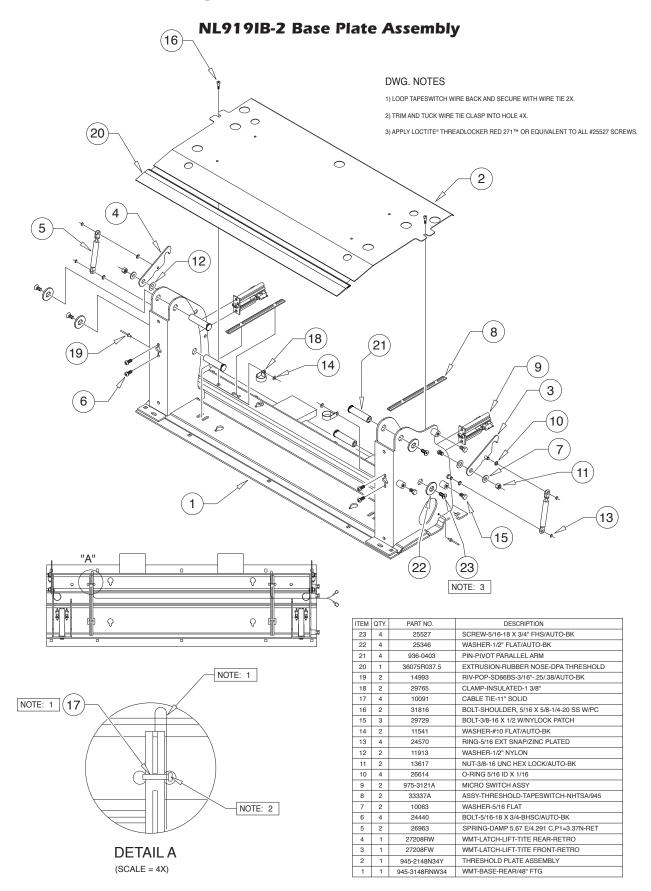
Note: Front pump module shown, rear pump module mirror image.

NL917IB-2 Base Plate Assembly

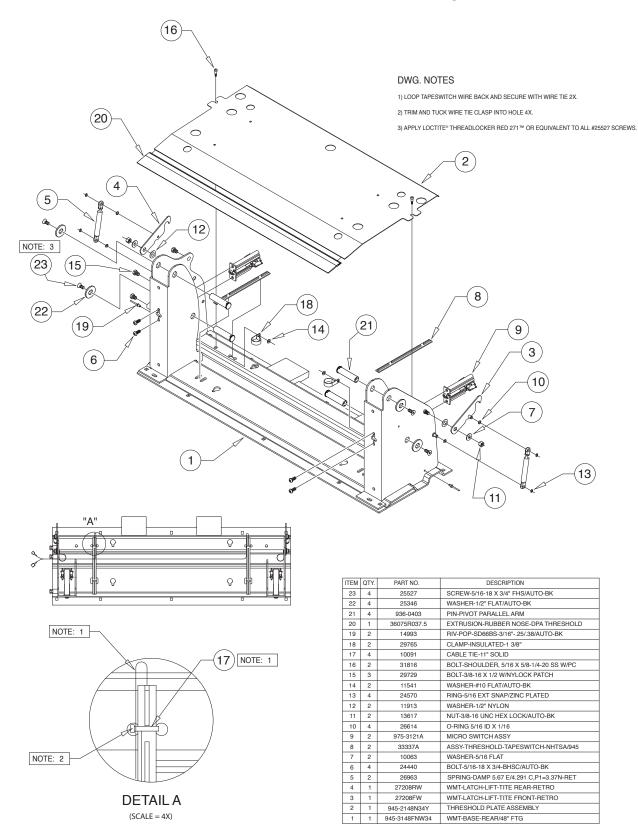


NL917FIB-2 Base Plate Assembly

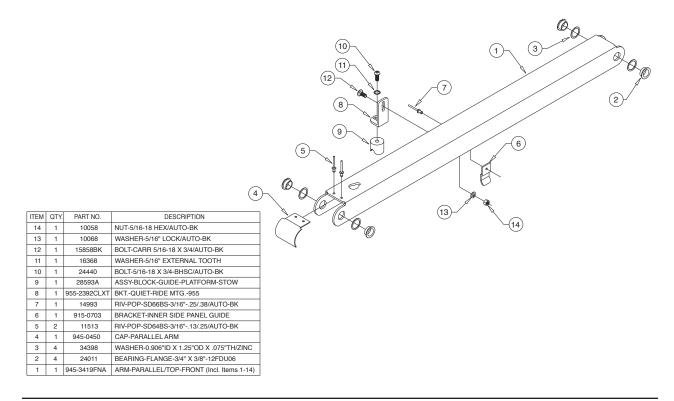




NL919FIB-2 Base Plate Assembly



Top Parallel Arm Assembly - Front

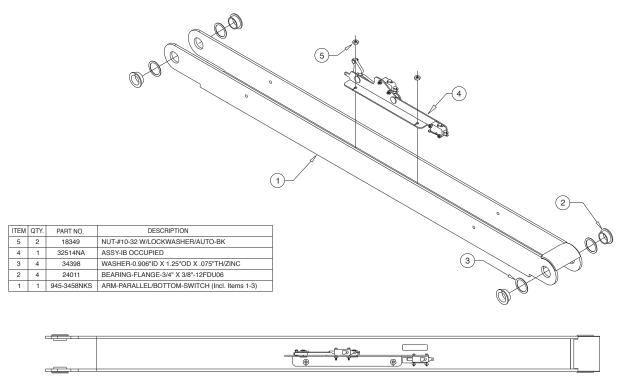




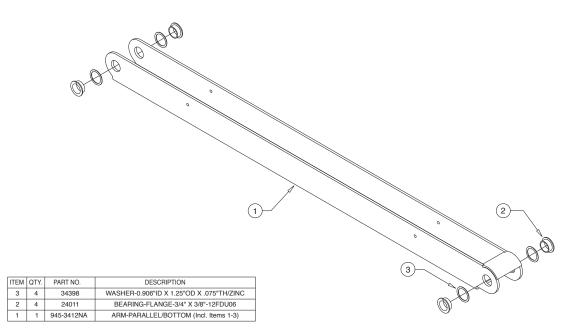
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ITEM	QTY.	PART NO.	DESCRIPTION
14	1	10058	NUT-5/16-18 HEX/AUTO-BK
13	1	10068	WASHER-5/16" LOCK/AUTO-BK
12	1	15858BK	BOLT-CARR 5/16-18 X 3/4/AUTO-BK
11 10	1	16368 24440	WASHER-5/16" EXTERNAL TOOTH BOLT-5/16-18 X 3/4-BHSC/AUTO-BK
9	1	24440 28593A	ASSY-BLOCK-GUIDE-PLATFORM-STOW
8			BKT-QUIET-RIDE MTG955
7	1	14993	RIV-POP-SD66BS-3/16"25/.38/AUTO-BK
6	1	915-0703	BRACKET-INNER SIDE PANEL GUIDE
5	2	11513	RIV-POP-SD64BS-3/16"13/.25/AUTO-BK
4	1	945-0450	CAP-PARALLEL ARM
3	4	34398	WASHER-0.906"ID X 1.25"OD X .075"TH/ZINC
2	4	24011	BEARING-FLANGE-3/4" X 3/8"-12FDU06
1	1	945-3419RNA	ARM-PARALLEL/TOP/48" FTG/R (Incl. Items 1-14)

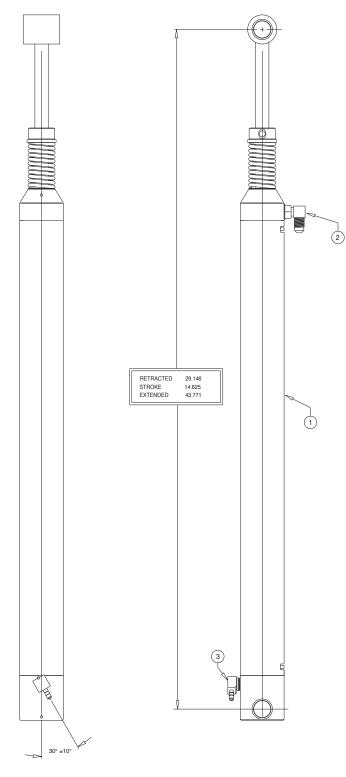
Bottom Parallel Arm Assembly - Pump Side



Bottom Parallel Arm Assembly - Opposite Pump Side



Hydraulic Cylinder Assembly - Main



ITEM	QTY.	PART NO.	DESCRIPTION
3	1	15150	ELBOW-1/4 NPT 90° 1/4 BARB
2	1	26667	ELBOW-7/16-20 M/O-RNG/37*/.035 ORFICE
1	1	C1514.3-0408N	CYLINDER-14.625"/29.146 RETRACTED

Vertical Arm Assembly - Rear

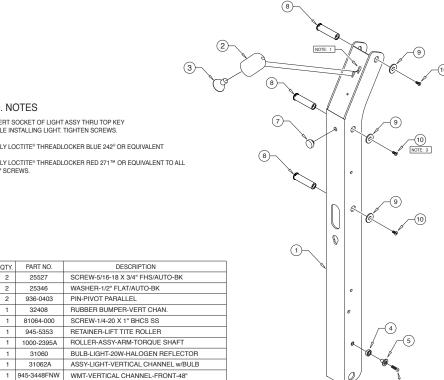
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DWG. NOTES

- 1) INS WH
- 2) HAF
- 3) APP OR
- 4) APP OR

1) INS WH 2) HAI 3) APF OR 4) APF	ERT S(ILE INS RNESS PLY LO EQUIN PLY LO	STALLING LIGHT. T TO BE TUCKED II CTITE® THREADLO /ALENT	DCKER BLUE 242®	
ITEM	QTY.	PART NO.	DESCRIPTION	
13	3	25527	SCREW-5/16-18 X 3/4" FHS/AUTO-BK	
12	3	25346	WASHER-1/2" FLAT/AUTO BK	
11	3	936-0403	PIN-PIVOT PARALLEL ARM	
10	2	19537	NUT-#4-40 w/LOCKWASHER	•
9	2	11481	SCREW-#4-40 X 3/8" RD. HD.	
8	1	33689A	ASSY-BRIDGE SWITCH W/ HARN/NL/NCL-2	•
7	1	32408	RUBBER BUMPER-VERT CHAN.	
6	1	81064-000	SCREW-1/4-20 X 1" BHCS SS	
5	1	945-5353	RETAINER-LIFT TITE ROLLER	
4	1	1000-2395A	ROLLER ASSY-ARM-TORQUE SHAFT	
3	1	31060	BULB-LIGHT-20W-HALOGEN REFLECTOR	
2	1	31062A	ASSY-LIGHT-VERTICAL CHANNEL w/BULB	
1	1	945-3448RNW	WMT-VERTICAL CHANNEL-REAR-48"	
				NOTE: 3

Vertical Arm Assembly - Front



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DWG. NOTES

ITEM QTY.

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8 2 PART NO.

25527

25346

936-0403

32408

945-5353

1000-2395A

31060

31062A

6 1 81064-000

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1) INSERT SOCKET OF LIGHT ASSY THRU TOP KEY WHILE INSTALLING LIGHT. TIGHTEN SCREWS.

2) APPLY LOCTITE® THREADLOCKER BLUE 242® OR EQUIVALENT

3) APPLY LOCTITE[®] THREADLOCKER RED 271[™] OR EQUIVALENT TO ALL #25527 SCREWS.

DESCRIPTION

WASHER-1/2" FLAT/AUTO-BK

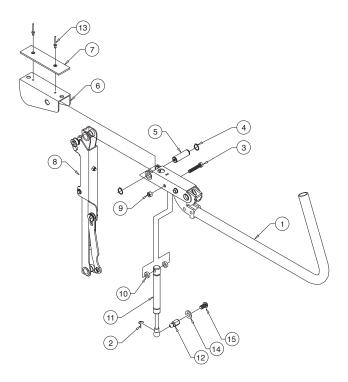
RUBBER BUMPER-VERT CHAN.

SCREW-1/4-20 X 1" BHCS SS

RETAINER-LIFT TITE ROLLER

PIN-PIVOT PARALLEL

Front Handrail Assembly

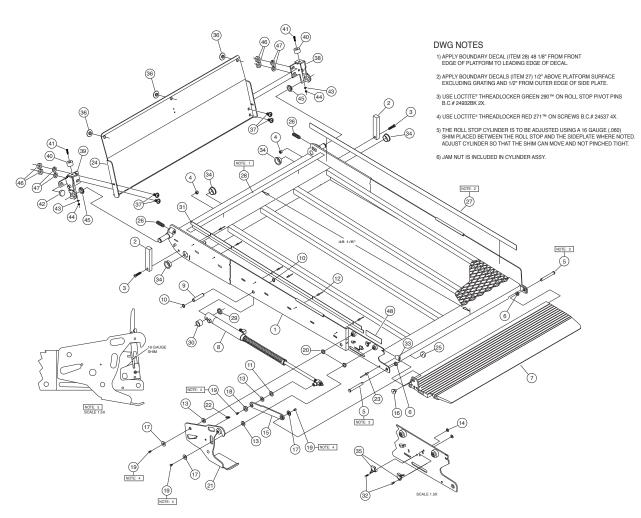


ITEM	QTY.	PART NO.	DESCRIPTION
15	1	25171	BOLT - 3/8-16 X 3/4" FLBHSCS-GD8
14	1	10069	WASHER - 3/8" LOCK
13	2	11513	RIV-POP-SD64BS-3/16"13/.25/AUTO-BK
12	1	29185	BALL STUD-13MM W/ 3/8-16 FEMALE THREAD
11	1	29186	GAS SPRING-14.468 EXT/8.956 COM-P1=1150N
10	2	30227	SPACER-UHMW 0.75 OD X 0.39 ID X 0.25
9	1	13617	NUT-3/8-16 UNC HEX LOCK/AUTO-BK
8	1	945-0640FNA	ASSY-FOLD ARM-48 FTG-FRONT
7	1	31677	SLIDE-UHMW-PLATFORM SLIDE-2X6.9"
6	1	985-0606N	SLIDE-PLATFORM ROTATE HANDRAIL
5	1	900-0413N	PIN-PIVOT LOWER ARM
4	2	18657	RING-3/4 EXT SNAP/AUTO-BK
3	1	10027	BOLT-3/8-16 X 2" HEX HD. CAP
2	1	12608	CLIP-SAFETY (GAS SPRING)
1	1	945-0618NA	HANDRAIL ASSY-NHTSA

Rear Handrail Assembly

	* INDICATES ITEMS NOT SHOWN			
ITEM	QTY.	PART NO.	DESCRIPTION	
16	1	25171	BOLT - 3/8-16 X 3/4" FLBHSCS-GD8	
15	1	10069	WASHER - 3/8" LOCK	
14	1	* 32519A	SWITCH ASSEMBLY (INCLUDED WITH ITEM 9)	
13	1	29185	BALL STUD-13MM W/ 3/8-16 FEMALE THREAD	
12	1	29186	GAS SPRING-14.468 EXT/8.956 COM-P1=1150N	
11	2	30227	SPACER-UHMW 0.75 OD X 0.39 ID X 0.25	
10	1	13617	NUT-3/8-16 UNC HEX LOCK/AUTO-BK	
9	1	945-0640RNA	ASSY-FOLD ARM-48 FTG-REAR	
8	2	11513	RIV-POP-SD64BS-3/16"13/.25/AUTO-BK	
7	1	31677	SLIDE-UHMW-PLATFORM SLIDE-2X6.9"	
6	1	985-0606N	SLIDE-PLATFORM ROTATE HANDRAIL	
5	1	900-0413N	PIN-PIVOT LOWER ARM	
4	2	18657	RING-3/4 EXT SNAP/AUTO-BK	
3	1	10027	BOLT-3/8-16 X 2" HEX HD. CAP	
2	1	12608	CLIP-SAFETY (GAS SPRING)	
1	1	945-0618NA	HANDRAIL ASSY-NHTSA	

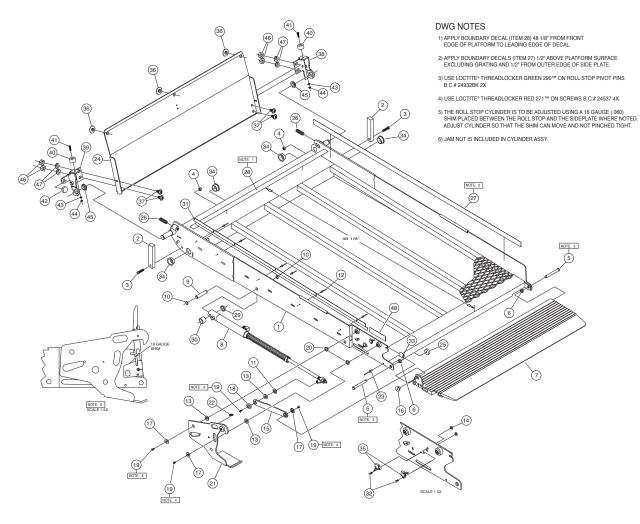
NL917IB-2 & NL917FIB-2 Platform Assembly



ITEM	QTY.	PART NO.	DESCRIPTION	
24	1	915-0147NWY	BRIDGE PLATE-PLT-33/48" FTG (945-0147NAY INC. 24, 36-47)	
23	1	11513	RIV-POP-SD64BS-3/16"13/.25/AUTO-BK	
22	1	10774	SPRING-1/4 X 1" EXT. W/HOOKS/AUTO-BK	
21	1	947-3343NA	ASSY-LATCH-ROLL STOP	
20	2	36384	SPRING-DISC-STAINLESS-OD. 795/ID.531	
19	4	17192P	SCREW-#10-32X1/2 FHDHXS-AUTO BLK-W/PATCH	
18	1	915-0341N	ADAPT-CYL/ROLL STOP LEVER	
17	3	990-0341	ADAPT-CYL/ROLL STOP LEVER-OUT	
16	1	24550	PIVOT-ROLL STOP LEVER-L915	
15	1	947-0345NA	LEVER-ROLL STOP LATCH-ASSY	
14	2	32949	WELD NUT-#4-40 x 1/8" BARREL	
13	3	15328	WASHER516ID X 10D X .0269/AUTO-BK	
12	5	13906	RIV-POP-SD45BS-1/8"25/.31	
11	1	29371	WASHER-THRUST875 OD/.50 ID/.0585T	
10	2	20946	RING-1/2 EXT SNAP/AUTO-BK	
9	1	915-0414	PIN-PLATFORM CYLINDER	
8	1	33094A	CYLINDER-ASSY-ROLLSTOP-MILLENNIUM	
7	1	915R4312A-33Y	ROLL-STOP ALUM./RUBBER END/ASSY33"/YEL	
6	2	24028	BRG-PLASTIC-FLANGE-3/8IDX1/4"	
5	2	24932BK	PIN-CLEVIS 3/8 X 3" EFF LENW/O HOLE/BK	
4	2	28324BK	NUT-5/16-18 TOP LOCK/AUTO-BK	
3	2	81003-000	SCREW-5/16-18 X 1-1/4 SHCS BK ZINC	
2	2	900-0311	STOP-PLATFORM	
1	1	947-23350NW	WMT-PLATFORM-NL917-2 /33 X 50"/IB	

48 1 30238R007 DECAL-BOUNDARY YELLO VINYL 1" X 7" 47 2 10069BK WASHER-38" LOCK/AUTO-BK 46 2 10059BK NUT-39 X 16 HEX/AUTO-BK 45 2 24012 BEARING-FLANGE-34" X 14"-12FDU04 44 2 10057 NUT-1/4-20 HEX 43 2 83588 WASHER-1/4 EXT STAR TOOTH LOCK ZP 42 1 32408 RUBBER BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X 1" HEX 40 2 33603 BUMPER-1/4 EXT STAR TOOTH LOCK ZP 41 2 10001 BOLT-1/4-20 X 1" HEX 40 2 33603 BUMPER-1/4 EXT STAR TOOTH LOCK ZP 41 2 10001 BOLT-1/4-20 X 1" HEX 43 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 38 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 38 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 36 3 916-5406 BEARING-UHAWFLAS X34" FID-LOS-0500 <t< th=""><th>ITEM</th><th>QTY.</th><th>PART NO.</th><th colspan="2">DESCRIPTION</th></t<>	ITEM	QTY.	PART NO.	DESCRIPTION	
46 2 10059BK NUT-3/8 X 16 HEX/AUTO-BK 45 2 24012 BEARING-FLANGE-3/4" X 1/4"-12FDU04 44 2 10057 NUT-1/4-20 HEX 43 2 85588 WASHEN-1/4 EXT STAR TOOTH LOCK ZP 42 1 32408 RUBBER BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X 1" HEX 40 2 33603 BUMPER-1"X 5/8"LG NAT UHMW/BRIDGEPLATE 39 1 945-0431FNW WMT-BKT-BRIDGE PLATE/FR 37 4 25171 BOLT-SH-16X 3/4" FLBKGS-G0B 36 3 916-5406 BEARING-LANGE-1X 1/2-16FDU08 36 3 916-5406 BEARING-LANGE-1X 1/2-16FDU08 36 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-PLANGE-1X 1/2-16FDU08 33 1 2803100.81 TUBING-POLYUBETHANE 1/4/ID X 1/20D X .81" 34 2 11481 SCREW-44-00 X 3/8" RD HD. 35 1 3915-0388NOY GUARD-WIRING-PLT-OUTER BARRIER SENSOR<	48	1	30236R007	DECAL-BOUNDARY YELLO VINYL 1" X 7"	
45 2 24012 BEARING-FLANGE-3/4* X 1/4*-12FDU04 44 2 10057 NUT-1/4-20 HEX 43 2 83588 WASHER-1/4 EXT STAR TOOTH LOCK ZP 42 1 32408 RUBBER BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X 1* HEX 40 2 33603 BUMPER-1* X 58*LG NAT UHMW/BRIDGEPLATE 40 2 33603 BUMPER-1* X 58*LG NAT UHMW/BRIDGEPLATE 39 1 945-0431FNW WMT-EKT-BRIDGE PLATE/FR 36 3 916-5405 BEARING-UHMW FLAT-THIN-BLK 35 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-VLVMETHANE H4/10 X 1/20D X .81* 32 2 11481 SCREW-44-40 X 3/8* RD. HD. 31 1 915-0386N507 GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0416 SPACER-FLAP CYU.0.5540 29 1 947-0416 SPACER-FLAP CYU.0.155 28 1 302038R045.5 DECAL-BOUNDARY YELLOW LEXAN	47	2	10069BK	WASHER-3/8" LOCK/AUTO-BK	
44 2 10057 NUT-1/4-20 HEX 43 2 85588 WASHER-1/4 EXT STAR TOOTH LOCK ZP 42 1 32408 RUBBER BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X1" HEX 40 2 33603 BUMPER-1" X 5/8"LG NAT UHMW/BRIDGEPLATE 39 1 945-0431RNW WMT-EKT-BRIDGE PLATE/FR 38 1 945-0431RNW WMT-EKT-BRIDGE PLATE/FR 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 1 3434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-FLANGE-1 X 1/2-16FDU08 33 1 28630R000.81 TUBING-POLYURETHANE 14/ID X 1/20D X .81" 32 2 11481 SCREW-44-40 X 3/8" RD. HD. 31 1 915-0368N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYU.0.540 29 1 947-0416 SPACER-FLAP CYU.0.540 27 1 30238R03.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1	46	2	10059BK	NUT-3/8 X 16 HEX/AUTO-BK	
1 2 85588 WASHER-1/4 EXT STAR TOOTH LOCK ZP 42 1 32408 RUBBER BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X1 * HEX 40 2 33603 BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X1 * HEX 40 2 33603 BUMPER-1* X 58°LG NAT UHMW/BRIDGEPLATE 39 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 38 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 3 916-5406 BEARING-LANGE-1 X 1/2-16FD008 36 1 3434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-PLANGE-1 X 1/2-16FD008 33 1 2803R000.81 TUBING-PDLYURE/THANE 1/4ID X 1/20D X .81* 32 2 11481 SCREW-44-40 X 38* RD. HD. 31 1 915-0388N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.540 <td>45</td> <td>2</td> <td>24012</td> <td>BEARING-FLANGE-3/4" X 1/4"-12FDU04</td>	45	2	24012	BEARING-FLANGE-3/4" X 1/4"-12FDU04	
42 1 32408 RUBBER BUMPER-VERT CHAN. 41 2 10001 BOLT-1/4-20 X1*HEX 40 2 33603 BUMPER-1*X 56%LG NAT UHMW/BRIDGEPLATE 39 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 38 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 1 916-3406 BEARING-UHMW FLAT-THIN-BLK 36 1 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 1 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 1 916-5406 BEARING-UHMW FLAT-THIN-BLK 36 1 28031 BEARING-PLANGE-1 X 12-16FDU08 33 1 28030700.05 A1 TUBING-POLYURETHANE 1/4ID X 1/20D X .81* 32 2 11481 SCREW-44-40 X 3/8* RD. HD. 31 1 915-03680N50' GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0416 SPACER-FLAP C	44	2	10057	NUT-1/4-20 HEX	
41 2 10001 BOLT-1/4-20 X 1* HEX 40 2 33603 BUUMPER-1* X 56% G NAT UHMW/BRIDGEPLATE 39 1 945-0431RNW WMT-BKT-BRIDGE PLATE/RR 38 1 945-0431RNW WMT-BKT-BRIDGE PLATE/RR 37 4 25171 BOLT-3/8-16 X 3/4* FLBHSCS-GD8 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 35 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-FLANGE-1 X 1/2-16FDU08 33 1 28630R000.81 TUBING-POLYURETHANE 1/4ID X 1/20D X.81* 32 2 11481 SCREW-44-40 X 3/8* RD. HD. 31 1 915-0388N50Y GUARD-WIRING-PL-UTOTER BARRIER SENSOR 30 1 915-0388N50Y GUARD-WIRING-VL-00540 29 1 947-0415 SPACER-FLAP CYU.0.540 29 1 947-0416 SPACER-FLAP CYU.0.540 29 1 942046.5 DECAL-BOUNDARY YELLOW LEXAN 1* X 32 1/2* 27 1 302387604.5 DECAL	43	2	83588	WASHER-1/4 EXT STAR TOOTH LOCK ZP	
Image: Constraint of the state of	42	1	32408	RUBBER BUMPER-VERT CHAN.	
39 1 945-0431RNW WMT-BKT-BRIDGE PLATE/RR 38 1 945-0431FNW WMT-BKT-BRIDGE PLATE/RR 37 4 25171 BOLT-3/8-16 X 3/4" FLBHSCS-GD8 36 3 916-5406 BEARING-UHAW FLAT-THIN-BLK 36 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-FLANGE-1 X 1/2-16FD1008 33 1 2863078000.81 TUBING-POLYURETHANE 1/4ID X 1/20D X .81" 32 2 11481 SCREW-44-40 X 3/8" RD. HD. 31 1 915-0388N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.5540 28 1 30238R032-5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30238R045.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	41	2	10001	BOLT-1/4-20 X 1" HEX	
38 1 945-0431FNW WMT-BKT-BRIDGE PLATE/FR 37 4 25171 BOLT-3/8-16 X 3/4" FLBHSCS-GD8 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 35 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-PLANGE-1X 1/2-16FDU08 33 1 28630R000.81 TUBING-POLVURETHANE 1/4ID X 1/2OD X 81" 32 2 11481 SCREW-#4-40 X 3/8" RD. HD. 31 1 915-0388N50Y GUARD-VIRING-PLT-UTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYU.0.540 29 1 947-0415 SPACER-FLAP CYU.0.152 28 1 30238R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30238R046.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	40	2	33603	BUMPER-1" X 5/8"LG NAT UHMW/BRIDGEPLATE	
37 4 25171 BOLT-3/8-16 X 3/4" FLBHSCS-GD8 36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 35 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-FLANGE-1 X 1/2-16FDU08 33 1 28630R000.81 TUBING-POLYURETHANE 1/4ID X 1/2OD X .81" 32 2 11.481 SCREW-#4-40 X 3/8" RD. HD. 31 1 915-0368N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYU0.540 29 1 947-0416 SPACER-FLAP CYU0.540 29 1 9236R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30236R045.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	39	1	945-0431RNW	WMT-BKT-BRIDGE PLATE/RR	
36 3 916-5406 BEARING-UHMW FLAT-THIN-BLK 35 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-FLANGE-1 X 1/2-16FDU08 33 1 28530R000.81 TUBING-POLYURETHANE 1/4ID X 1/2OD X .81" 32 2 11481 SCREW-44-00 X 30" RD HD. 31 1 915-0368N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.540 29 1 947-0416 SPACER-FLAP CYL0.550 28 1 30238R032-5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30238R045.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	38	1	945-0431FNW	WMT-BKT-BRIDGE PLATE/FR	
35 1 33434A HARN-ROLLSTOP OCC, NL-2 34 4 28031 BEARING-FLANGE-1 X 1/2-16FDU08 33 1 28630R000.81 TUBING-POLYUBETHANE 1/4/10 X 1/20D X .81" 32 2 11481 SCREW-#4-40 X 3/8" RD. HD. 31 1 915-0368N50Y GUARD-VUIDETHANE 1/4/10 X 1/20D X .81" 30 1 947-0415 SPACER-FLAP CYU0.540 29 1 947-0415 SPACER-FLAP CYU0.155 28 1 30238R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30238R045.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	37	4	25171	BOLT-3/8-16 X 3/4" FLBHSCS-GD8	
34 4 28031 BEARING-FLANGE-1 X 1/2-16FDU08 33 1 28630R000.81 TUBING-PCLVUBETHANE 1/4ID X 1/2OD X .81" 32 2 11481 SCREW-#4-40 X 3/8" RD. HD. 31 1 915-03881X507 GUARD-VINING-PL-TOUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.540 29 1 947-0416 SPACER-FLAP CYL0.540 28 1 30236R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30236R046.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	36	3	916-5406	BEARING-UHMW FLAT-THIN-BLK	
33 1 28630R000.81 TUBING-POLYURETHANE 1/4ID X 1/2OD X .81* 32 2 11491 SCREW-44-0X 38* RD. HD. 31 1 915-0368N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.540 29 1 947-0416 SPACER-FLAP CYL0.540 28 1 30238R032:5 DECAL-BOUINDARY YELLOW LEXAN 1* X 32 1/2* 27 1 30238R045.5 DECAL-BOUNDARY YELLOW LEXAN 1* X 48 1/2* 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	35	1	33434A	HARN-ROLLSTOP OCC, NL-2	
32 2 11481 SCREW-#4-40 X 3/8" RD. HD. 31 1 915-0388N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.5640 29 1 947-0416 SPACER-FLAP CYL0.550 28 1 30238R032-5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30238R048-5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	34	4	28031	BEARING-FLANGE-1 X 1/2-16FDU08	
31 1 915-0368N50Y GUARD-WIRING-PLT-OUTER BARRIER SENSOR 30 1 947-0415 SPACER-FLAP CYL0.540 29 1 947-0416 SPACER-FLAP CYL0.55 28 1 30236R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30236R046.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	33	1	28630R000.81	TUBING-POLYURETHANE 1/4ID X 1/2OD X .81"	
30 1 947-0415 SPACER-FLAP CYL/0.540 29 1 947-0416 SPACER-FLAP CYL/0.550 28 1 30236R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30236R046.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	32	2	11481	SCREW-#4-40 X 3/8" RD. HD.	
29 1 947-0416 SPACER-FLAP CYL0.155 28 1 30236R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30236R048.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	31	1	915-0368N50Y	GUARD-WIRING-PLT-OUTER BARRIER SENSOR	
28 1 30236R032.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2" 27 1 30236R048.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	30	1	947-0415	SPACER-FLAP CYL/0.540	
27 1 30236R048.5 DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2" 26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	29	1	947-0416	SPACER-FLAP CYL/0.155	
26 2 18663 SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	28	1	30236R032.5	DECAL-BOUNDARY YELLOW LEXAN 1" X 32 1/2"	
	27	1	30236R048.5	DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2"	
25 1 10950 BLIMPER-PLIBBER RECES 31/32 OD	26	2	18663	SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	
23 1 10330 Bown Enhibit Bennie CE. Shide CB	25	1	10950	BUMPER-RUBBER RECES.31/32 OD	

NL919IB-2 & NL919FIB-2 Platform Assembly



ITEM	QTY.	PART NO.	DESCRIPTION	
24	1	915-0147NW34Y	BRIDGE PLATE-PLT-34/48" FTG (945-0147NA34Y INC. 24, 36-47)	
23	1	11513	RIV-POP-SD64BS-3/16"13/.25/AUTO-BK	
22	1	10774	SPRING-1/4 X 1" EXT. W/HOOKS/AUTO-BK	
21	1	947-3343NA	ASSY-LATCH-ROLL STOP	
20	2	36384	SPRING-DISC-STAINLESS-OD.795/ID.531	
19	4	17192P	SCREW-#10-32X1/2 FHDHXS-AUTO-BLK-W/PATCH	
18	1	915-0341N	ADAPT-CYL/ROLL STOP LEVER	
17	3	990-0341	ADAPT-CYL/ROLL STOP LEVER-OUT	
16	1	24550	PIVOT-ROLL STOP LEVER-L915	
15	1	947-0345NA	LEVER-ROLL STOP LATCH-ASSY	
14	2	32949	WELD NUT-#4-40 x 1/8" BARREL	
13	3	15328	WASHER516ID X 10D X .0269/AUTO-BK	
12	5	13906	RIV-POP-SD45BS-1/8"25/.31	
11	1	29371	WASHER-THRUST875 OD/.50 ID/.0585T	
10	2	20946	RING-1/2 EXT SNAP/AUTO-BK	
9	1	915-0414	PIN-PLATFORM CYLINDER	
8	1	33094A	CYLINDER-ASSY-ROLLSTOP-MILLENNIUM	
7	1	915R4312A-34Y	ROLL-STOP ALUM./RUBBER END/ASSY34"/YEL	
6	2	24028	BRG-PLASTIC-FLANGE-3/8IDX1/4"	
5	2	24932BK	PIN-CLEVIS 3/8 X 3" EFF LENW/O HOLE/BK	
4	2	28324BK	NUT-5/16-18 TOP LOCK/AUTO-BK	
3	2	81003-000	SCREW-5/16-18 X 1-1/4 SHCS BK ZINC	
2	2	900-0311	STOP-PLATFORM	
1	1	947-23450NW	WMT-PLATFORM-NL919-2 34" X 50"/IB	

ITEM	QTY.	PART NO.	DESCRIPTION	
48	1	30236R007	DECAL-BOUNDARY YELLOW VINYL 1" X 7"	
47	2	10069BK	WASHER-3/8" LOCK/AUTO-BK	
46	2	10059BK	NUT-3/8 X 16 HEX/AUTO-BK	
45	2	24012	BEARING-FLANGE-3/4" X 1/4"-12FDU04	
44	2	10057	NUT-1/4-20 HEX	
43	2	83588	WASHER-1/4 EXT STAR TOOTH LOCK ZP	
42	1	32408	RUBBER BUMPER-VERT CHAN.	
41	2	10001	BOLT-1/4-20 X 1" HEX	
40	2	33603	BUMPER-1" X 5/8"LG NAT UHMW/BRIDGEPLATE	
39	1	945-0431RNW	WMT-BKT-BRIDGE PLATE/RR	
38	1	945-0431FNW	WMT-BKT-BRIDGE PLATE/FR	
37	4	25171	BOLT-3/8-16 X 3/4" FLBHSCS-GD8	
36	3	916-5406	BEARING-UHMW FLAT-THIN-BLK	
35	1	33434A	HARN-ROLLSTOP OCC, NL-2	
34	4	28031	BEARING-FLANGE-1 X 1/2-16FDU08	
33	1	28630R000.81	TUBING-POLYURETHANE 1/4ID X 1/2OD X .81"	
32	2	11481	SCREW-#4-40 X 3/8" RD. HD.	
31	1	915-0368N50Y	GUARD-WIRING-PLT-OUTER BARRIER SENSOR	
30	1	947-0415	SPACER-FLAP CYL/0.540	
29	1	947-0416	SPACER-FLAP CYL/0.155	
28	1	30236R033.5	DECAL-BOUNDARY YELLOW LEXAN 1" X 33 1/2"	
27	1	30236R048.5	DECAL-BOUNDARY YELLOW LEXAN 1" X 48 1/2"	
26	2	18663	SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK	
25	1	10950	BUMPER-RUBBER RECES.31/32 OD	

Braun® 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. If The Braun Corporation receives the warranty registration card within 20 days after the lift is put into service, the warranty labor coverage will increase from one (1) year or 3,000 cycles to three (3) years or 10,000 cycles. In addition, providing the warranty registration card is returned as noted above, the following lift's power train parts are warrantied for five (5) years or 15,000 cycles: Cable, Cylinder, Flow Control, Gear Box, Motor, Pump, Hydraulic Hose and Fittings. 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. Providing the warranty card is returned within 20 days as outlined above, the labor warranty period will be extended by two years of coverage in accordance with the terms, conditions, and limitations of this limited warranty. In addition, if a substantial defect in material or workmanship, attributable to Braun, is found to exist during the fourth or fifth year of warranty coverage to the following lift's power train parts: Cable, Cylinder, Flow Control, Gear Box, Motor, Pump, Hydraulic Hose and Fittings, 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 and limitations of this limited warranty. The cost of labor for repair or replacement at any time after the warranty coverage detailed above is the sole responsibility of the owner.

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, IN-CLUDING 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.

Braun[®] 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 SUR-VIVE 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.

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 mis-operation, 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, 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

Braun® Limited Warranty

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.

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 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.

NOTES

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Patent #5,261,779	Patent #6,599,079	Patent #7,422,408
Patent #6,065,924	Patent #6,692,217	Patent #7,444,995
Patent #6,238,169	Patent #6,739,824	Patent #7,509,187
Patent #6,464,447	Patent #7,306,422	Patent #7,530,226

Patent #CA 2,335,081



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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.

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