Service Manual

International

Vista 2

Split

Platform

BRAUN VISTA 2 SERIES 34281

Public Use
Wheelchair Lifts

Series AB

26" FTG

THE BRAUN CORPORATION®

www.braunability.com/international ISO 9001:2008

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37839

December

2012

Original Instructions

CE

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 maintenance and service-related material. Braun Vista 2 Series™ lifts are built for dependability and will provide years of pleasure and independence as long as the lift is properly maintained and operated by an instructed person.

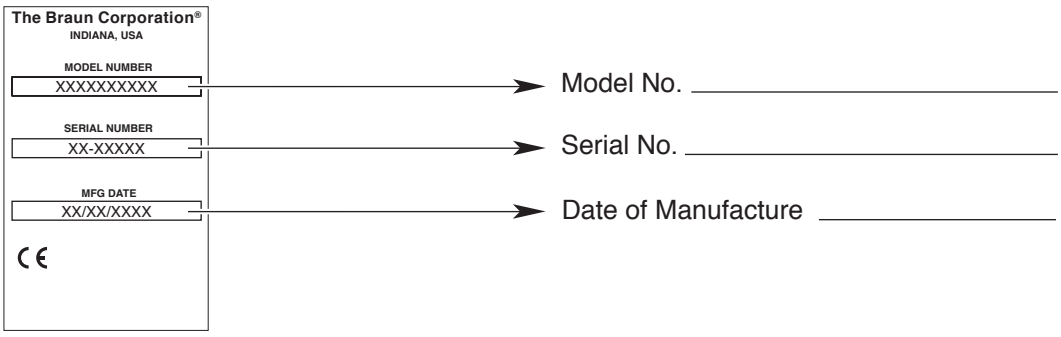
Sincerely,
THE BRAUN CORPORATION

Ralph W. Braun
Chief Executive Officer

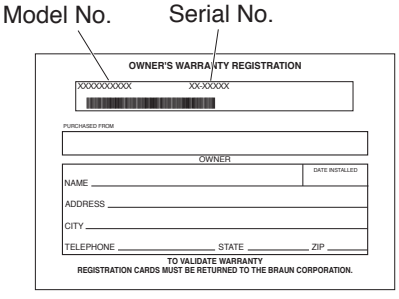
Warranty

Consult your local Braun dealer regarding warranty policy.

www.braunlift.com/international



Sample Serial No./Series No. Identification Tag



Sample Warranty/Registration Card

Contents

Document Cross Reference

Owner Manual 36561

Service Safety Precautions

Safety Symbols

SAFETY FIRST! Know That....

A The information contained in this manual and supplements (if included), is provided for your use and safety. Familiarity with proper installation, operation, maintenance and service procedures is necessary to ensure safe, troublefree lift operation. Safety precautions are provided to identify potentially hazardous situations and provide instruction on how to avoid them.

B

⚠WARNING

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

C

⚠CAUTION

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

D **NOTICE** Additional information provided to help clarify or detail a specific subject.

E 

This symbol indicates that there are dangerous high voltages present inside the enclosure of this product. To reduce the risk of fire or electric shock, do not attempt to open the enclosure or gain access to areas where you are not instructed to do so. Refer servicing to qualified service personel only.

F 

This symbol indicates that a condition where damage to the equipment resulting injury could occur if operational procedures are not followed. To reduce the risk of damage or injury, refer to accompanying documents, follow all steps or procedures as instructed.

G 

This symbol indicates that a condition where injury or damage could occur if contact is made with the hot surface.

H 

This symbol indicates an area to avoid bodily contact to prevent injury.

I 

This symbol indicates the presence of high pressure hydraulic hoses. Use appropriate personal protective equipment when working on hydraulic system.

J 

This symbol indicates the presence of a fire hazard. Avoid open flames or sparks when working with flammable materials to prevent injury or damage.

These symbols will appear throughout this manual as well as on the labels posted on your lift.
Recognize the seriousness of this information.

Service Safety Precautions

Service Safety Precautions

⚠WARNING

If maintenance or repair procedures cannot be completed exactly as provided in this manual or if the instructions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

⚠WARNING Read this manual, supplement(s) and operating instructions decals before performing operation or service procedures.

⚠WARNING Use appropriate personal protective equipment when servicing the lift.

⚠WARNING Check for obstructions such as gas lines, wires, exhaust, etc. before drilling or cutting on vehicle.

⚠WARNING Route all cables clear of exhaust system, other hot areas, moving parts, wet areas, etc.

⚠WARNING Risk of electrical shock or fire! Use extra care when making electrical connections. Connect and secure as outlined in Installation Instructions and Wiring Diagrams.

⚠WARNING Adjust platform angle and floor level positioning of bridge plate before operating lift with passenger.

⚠WARNING Maintenance and repairs must be performed only by authorized service personnel.

⚠WARNING Perform maintenance and lubrication procedures exactly as outlined in the Maintenance and Lubrication Schedule contained in this manual.

⚠WARNING Disconnect the power cable at the battery prior to servicing.

⚠WARNING Never modify (alter) a Braun Corporation lift.

⚠WARNING Replacement parts must be Braun authorized replacements.

⚠WARNING Never install screws or fasteners (other than factory equipped).

⚠WARNING Whenever replacing a hydraulic cylinder or seals, lower platform fully.

⚠WARNING Failure to follow these safety precautions may result in serious bodily injury and/or property damage.

Specifications

The lift must be installed, operated, and maintained as detailed in applicable manuals. Any use of equipment other than instructed in this manual is prohibited.

The 363kg (800 lb.) lift capacity Vista -2 series lifts have completed 15,600 cycles with a 363kg load and a static load test with a 1089kg (2400 lb.) load.

The specifications below reflect CE standards. Lifts meet or exceed these requirements

Operating Temperature

This equipment will operate in its intended ambient at a minimum between -30ºC and +65ºC.

Relative Humidity

This equipment will operate correctly within an environment at 50% RH, at 40ºC.

Altitude

This equipment will operate correctly up to 1000m above mean sea level.

Sound Pressure Level

The emission sound pressure level at the operator's position is expected not to exceed 70 db(A).

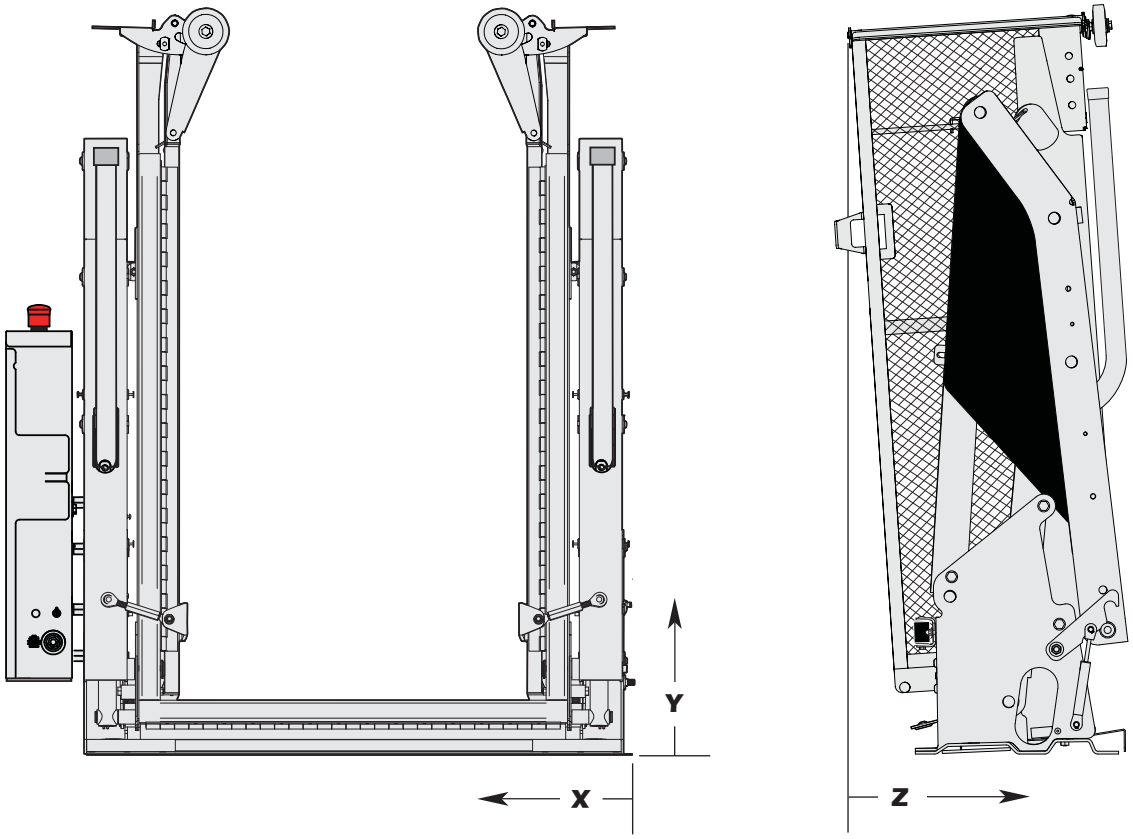
Transportation and Storage

This equipment will withstand, or has been protected against, transportation and storage temperatures of -25ºC to +55ºC, and for short periods of up to +70ºC.

The lift has been packaged to prevent damage from the effects of normal humidity, vibration, and shock.

Lift Model	Maximum Load Capacity	Power Requirement	Lift Weight
VL996IB3042-2	363kg (800lbs)	12 VDC	147kg (324 lbs)

Center of Gravity

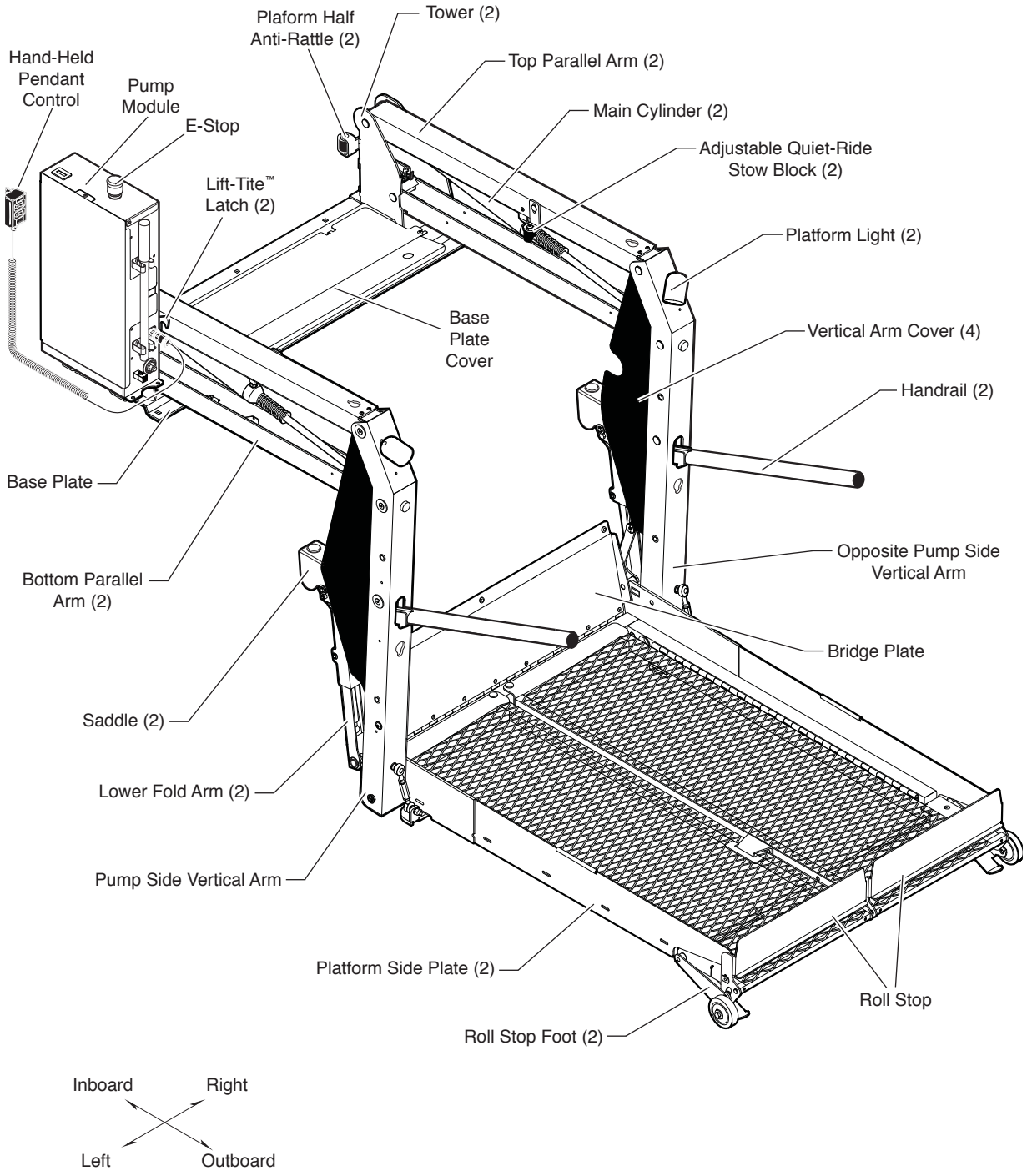


Center of Gravity is the intersection of X, Y, and Z.

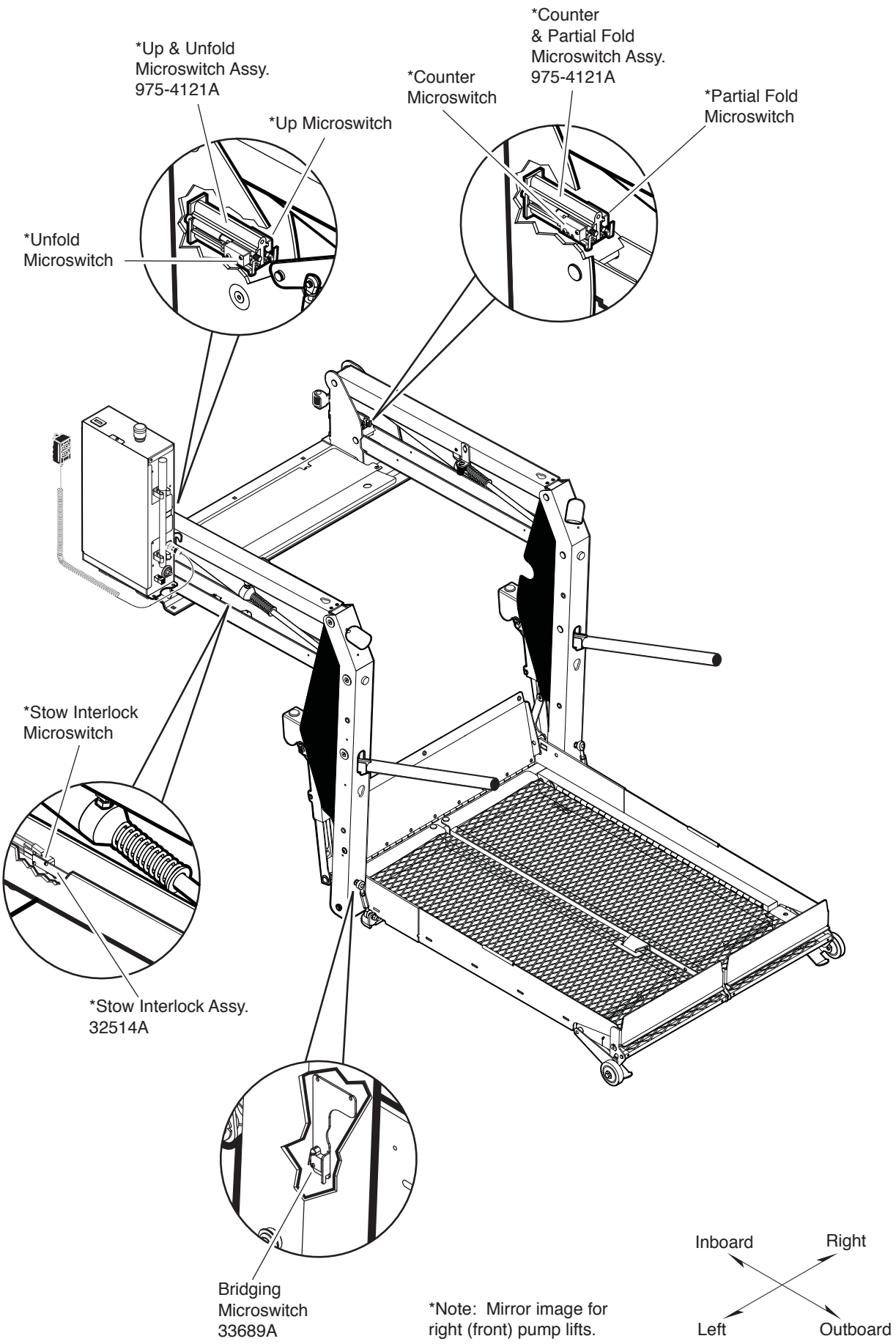
Notice: X must be measured from opposite pump side as shown.

Lift Model	X (cm)	Y (cm)	Z (cm)
VL996IB3042-2	54.34	44.70	15.12

Lift Terminology



Switch and Sensor Locations



*Note: Mirror image for right (front) pump lifts.

Platform Fold Pressure Adjustment

1. 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.

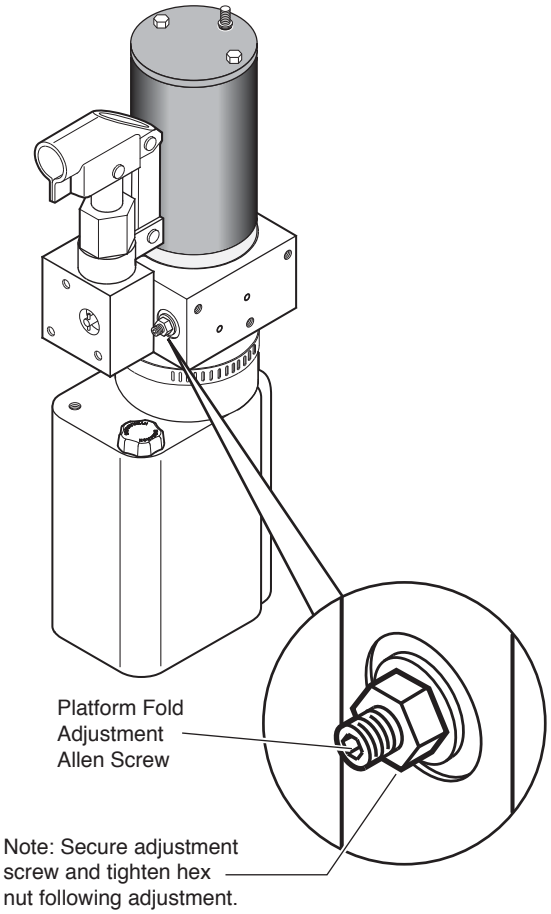
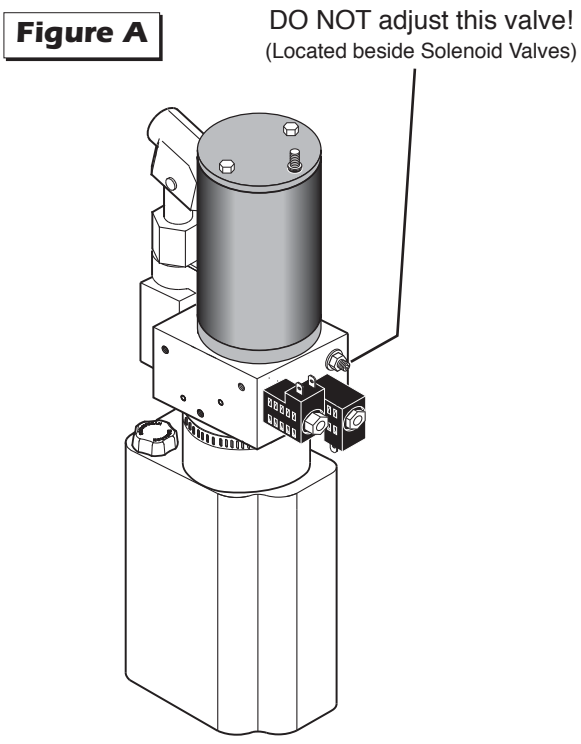
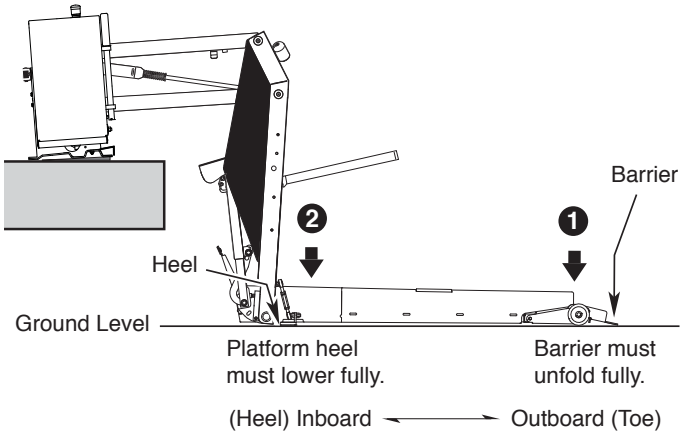


Figure A



Platform Angle Adjustment

Figure B



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 B.

2. The inboard end (heel) of the platform must lower fully (turnbuckle brackets must contact ground when fully lowered). See Figure B.

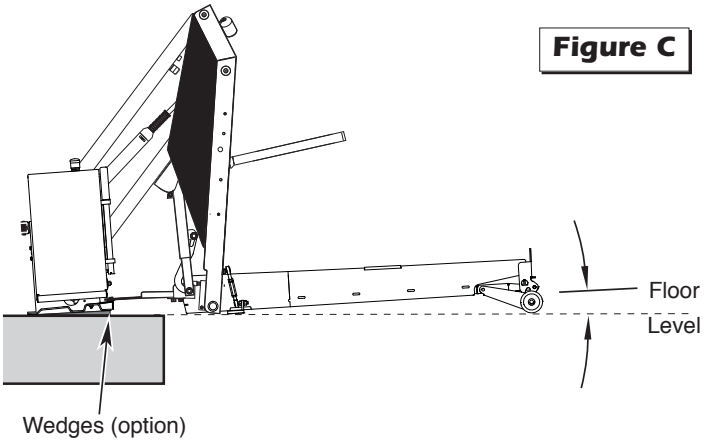
The angle of the platform at ground level directly affects the angle of the platform when positioned at floor level.

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 C.

Adjust platform angle as detailed below.

Figure C



Adjustment Procedure:

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

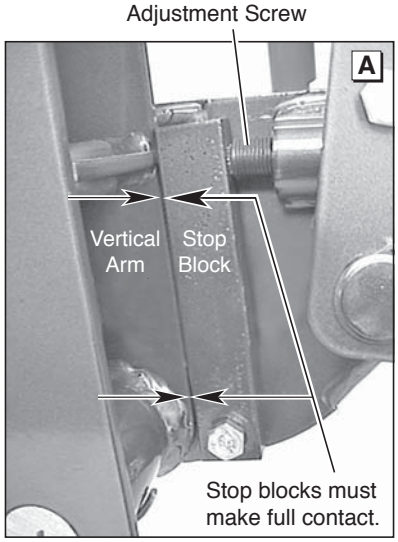
Turn adjustment screws clockwise to raise the outboard end of the platform. Turn adjustment screws counterclockwise to lower the outboard end of the platform.

Both adjustment screws must be adjusted equally.

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

Floor Level Adjustment: Following platform angle adjustment, set platform floor level positioning as detailed in Tower Microswitch Adjustment. Check platform angle again after performing Tower Microswitch Adjustment procedures.

Turnbuckles: Platform turnbuckles will be affected if platform angle is adjusted. Adjust turnbuckles as detailed in Turnbuckle Adjustment section if needed.



Turnbuckle Adjustment

1. Deploy platform to floor level. Be sure the platform stop blocks are in contact with the vertical arms (Photo A).

2. Both platform halves must be laying flat as shown in Figure 2. Adjust left turnbuckle so no tension is on the turnbuckle (adjust if needed only). No further adjustment of the left turnbuckle is necessary.

3. Adjust right platform turnbuckle so that the inboard end of the right platform is slightly above the platform heel. See Photo B.

4. Stow and deploy platform. Observe the platform tabs and platform slots to confirm proper alignment during platform deployment. If the left platform tabs are higher than the right platform slots, increase the length of the right turnbuckle (Figure 1). If the tabs are lower than the slots, decrease the length of the right turnbuckle. See Photo C.

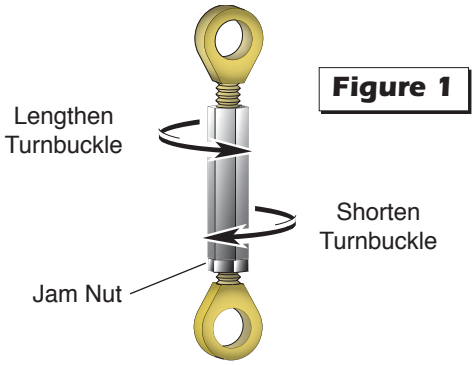


Figure 1

Loosen jam nut to adjust turnbuckle length. Tighten jam nut after adjustment.

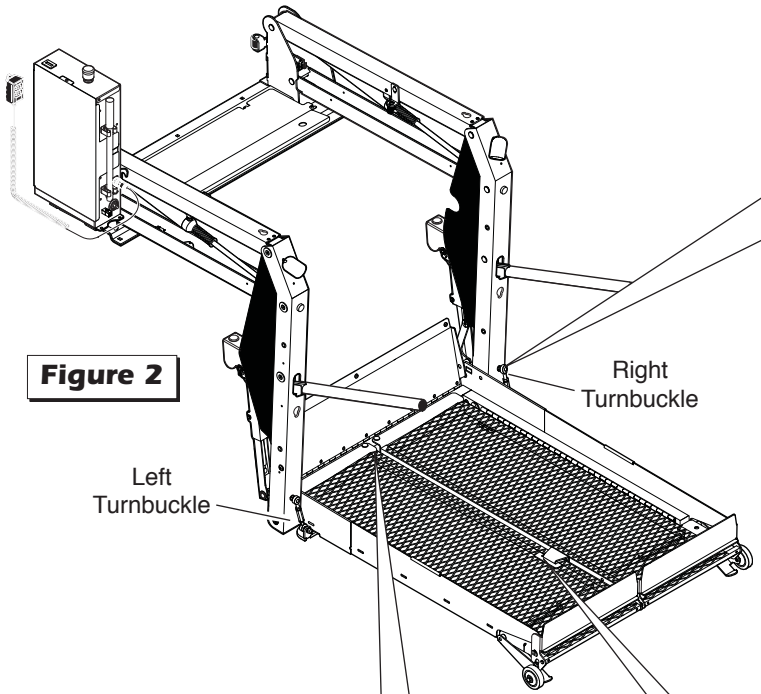
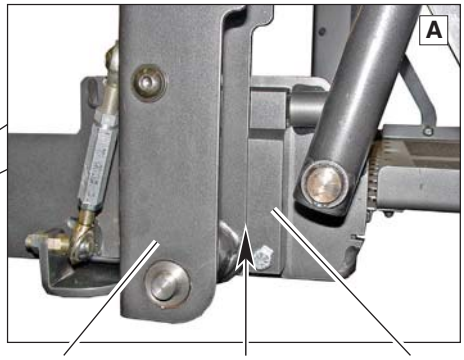
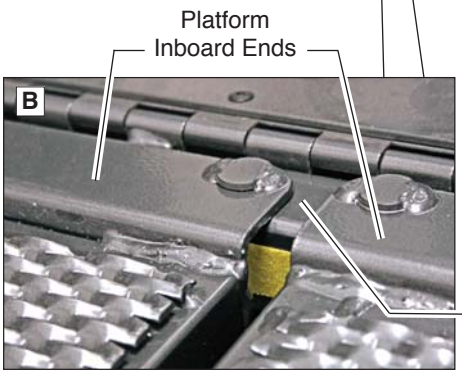
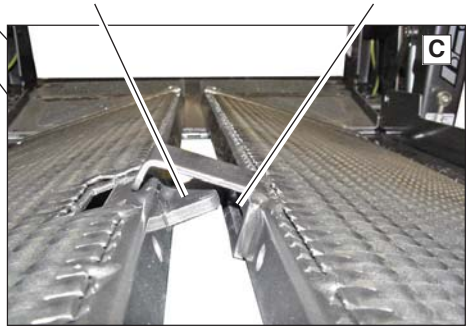


Figure 2







Platform Half Stabilizer Roller Installation and Adjustment

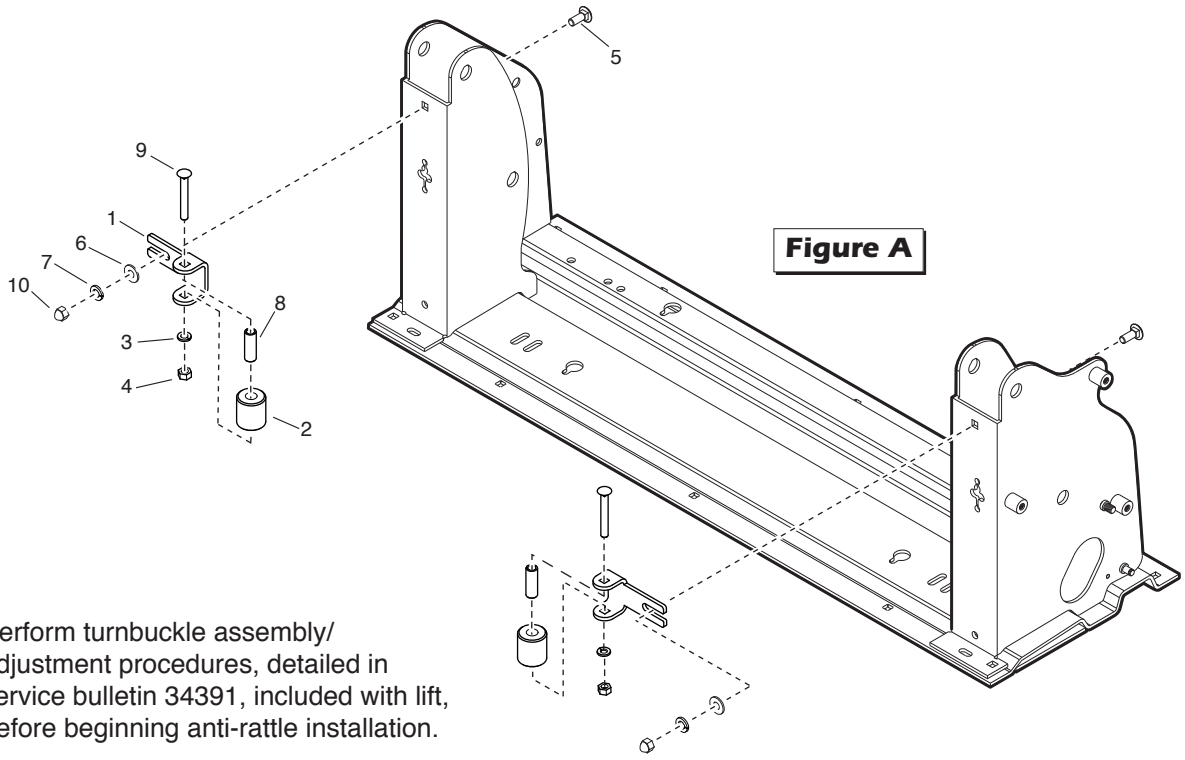


Figure A

Perform turnbuckle assembly/ adjustment procedures, detailed in service bulletin 34391, included with lift, before beginning anti-rattle installation.

1. Unfold and lower platform to floor level.

2. Mount UHMW bumpers (Item 2) to mounting brackets (Item 1) as indicated using 5/16-18 X 2-1/4" carriage bolt (Item 9), roller axle (Item 8), lock washer (Item 3) and 5/16" hex nut (Item 4). Tighten securely.

3. Position and mount bracket and bumper assemblies to lift towers as shown. Secure to lift using 5/16-18 X 3/4" carriage bolt (Item 5), 1/4" flat washer (Item 6), 5/16" lock washer (Item 7), and 5/16" acorn nut (Item 10). Snug tighten.

4. Stow lift fully. Push bumpers tightly against platform halves (oval slots provide adjustment). Tighten securely. Test for rattle and adjust as needed.

Roll Stop Anti-Rattle Installation and Adjustment

1. Mount bumper into slot in roll stop using 5/16-18 X 3/4" bolt, 3/8" star washer, and 5/16-18 X 3/8" weld nut. Refer to figures B through D. Typical both sides.

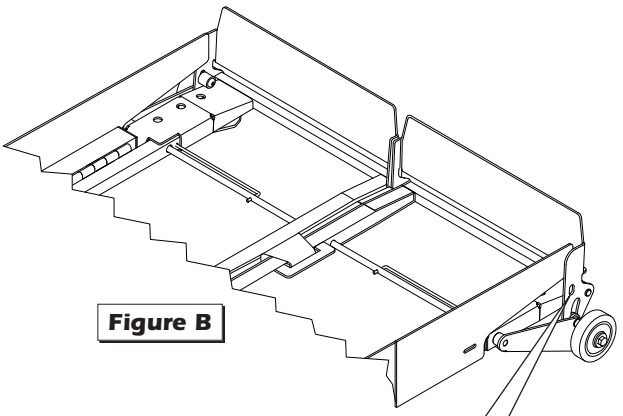


Figure B

2. Pull outward on roll stop half and push bumper downward against platform surface (oval slot provides adjustment). Tighten securely. Test for rattle and adjust as needed. Typical both sides.

Note: Roll stop latch feet must drop completely to bottom of curved slots in roll stops to ensure proper latching.

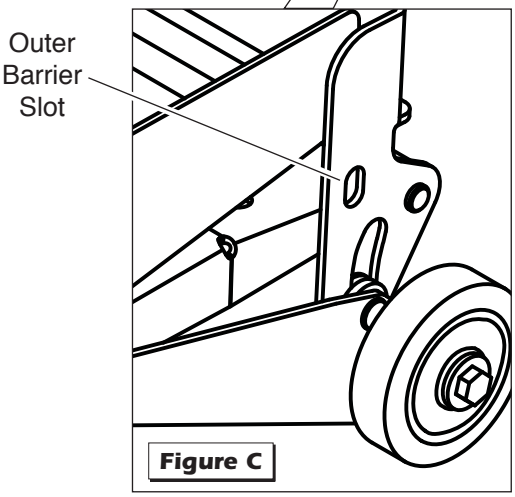


Figure C

3. Verify proper latching operation of both roll stop halves.

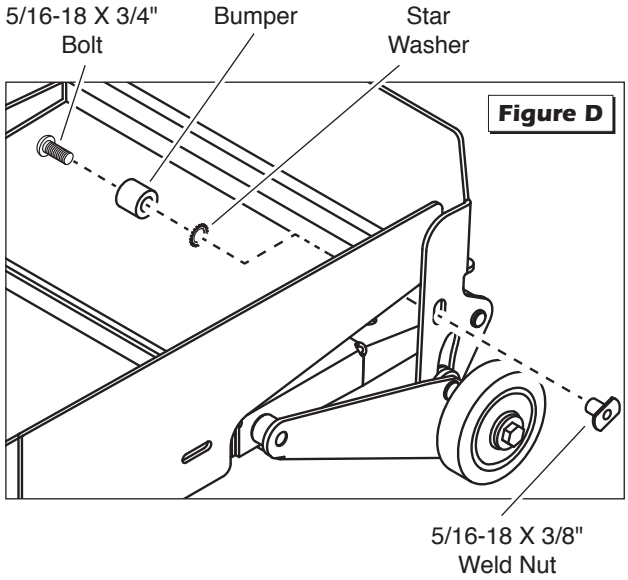


Figure D

Tower Microswitch Adjustment

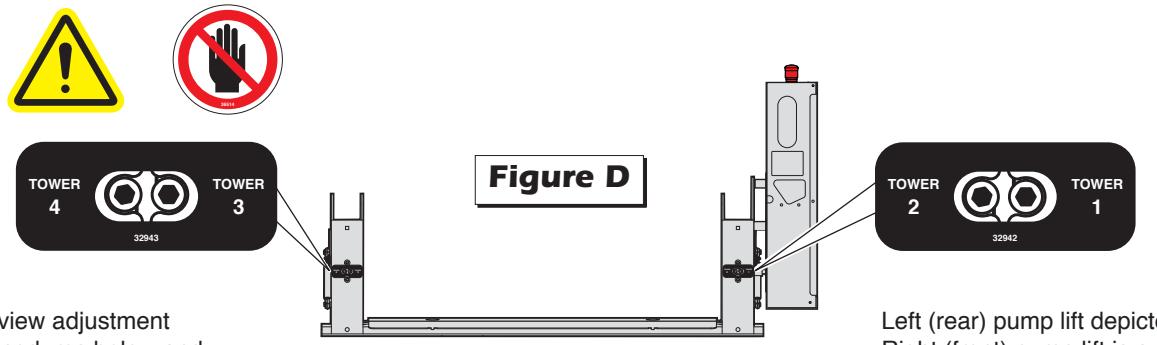


Figure D

Review adjustment procedures below and adjust as needed only.

Left (rear) pump lift depicted. Right (front) pump lift is a mirrored image.

Tower 1 (Unfold) Switch Adjustment
Floor Position from Stow

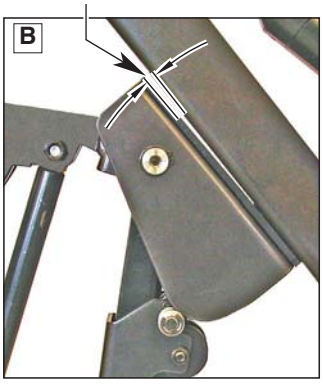
1. Position platform at the fully stowed position using the manual hand pump or pendant control.
2. Turn switch adjustment screw clockwise 3 full turns.
3. Press pendant UNFOLD switch (continue pressing switch until platform stops unfolding).
4. When platform stops unfolding, turn switch adjustment screw 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 base plate cover. See Photo C.
- Should be an approximate 3 mm clearance between outboard end of rotating pivot slide arm saddle and the lower parallel arm. See Photo B.

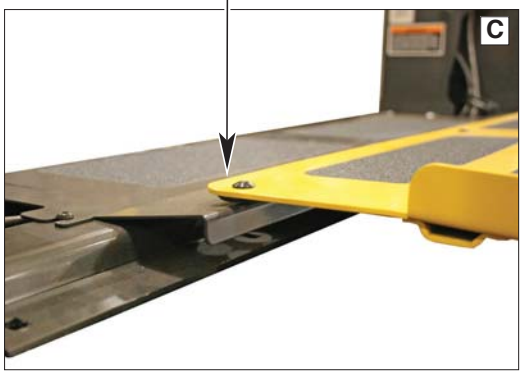
Tower 2 (Up) Switch Adjustment
Floor Position from Below Floor

1. Lower platform a minimum of 15.25 cm 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".

3 mm



Bridge plate should rest on base plate cover.



Tower Microswitch Adjustment

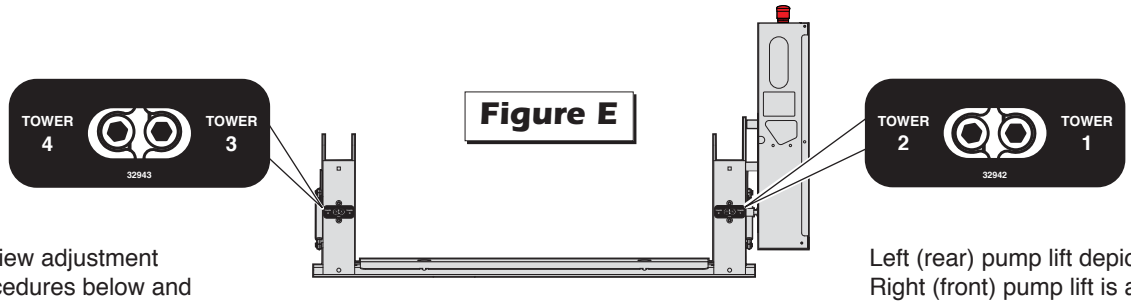


Figure E

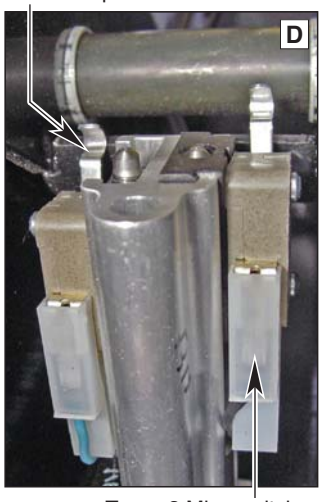
Review adjustment procedures below and adjust as needed only.

Left (rear) pump lift depicted. Right (front) pump lift is a mirrored image.

Tower 3 (Count) Switch Adjustment
Cycle Counter Switch

1. Position platform approximately 25 mm below floor level position using the pendant control.
2. View the Tower 3 microswitch inside the lift tower (see Photo D). Turn switch adjustment screw counterclockwise until microswitch no longer contacts the activation plate.
3. Observe the cycle count number on the LCD display. Slowly turn switch adjustment screw clockwise until the microswitch activates (clicks) and the number on the cycle counter LCD has changed.

Radius of Tower 4 microswitch blade activated by apex of activation plate.



Tower 3 Microswitch

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 D). 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).

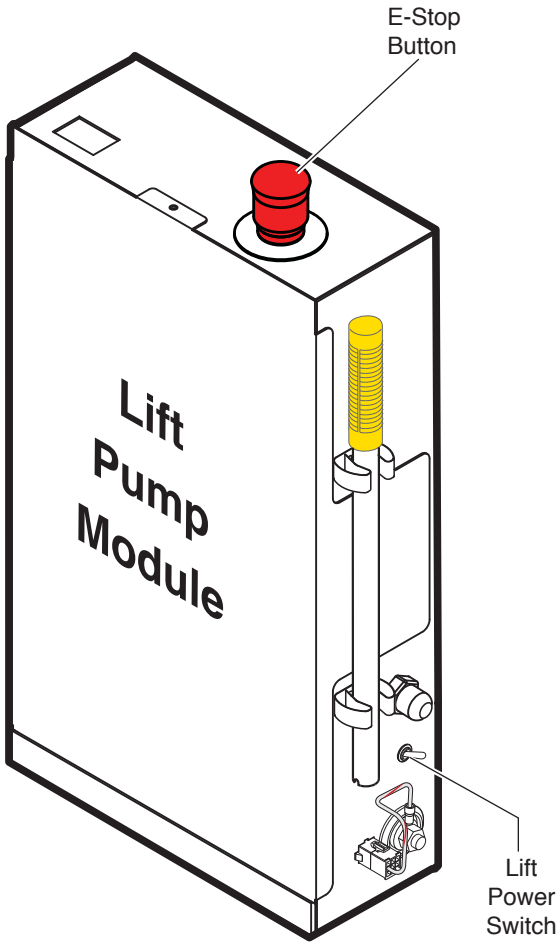
Platform Angle Adjustment: Check platform angle after Tower Microswitch Adjustment procedures.

Platform Stop Blocks: Ensure both stop blocks are making full contact with the vertical arms.

⚠WARNING

Improper microswitch adjustment may result in serious bodily injury and/or property damage.

Emergency Stop (E-Stop) Operating Instructions



To Activate E-Stop:

Push E-Stop button down.

To Reset E-Stop:

1. Turn lift power OFF.
2. Pull E-Stop button up.
3. Turn lift power ON.

Static and Dynamic Tests

Compatibility between the lift and the vehicle

The installer shall confirm the compatibility between the lift and the vehicle.

Static Test

Deformation

The unladen platform is positioned mid-way between ground level and vehicle floor level and measurements are taken of the height of the platform and its angular attitude relative to the vehicle floor.

A load of 454 kg is applied to the platform and subsequently removed.

By repeating measurements of the height and attitude of the platform, verify that no permanent deformation has occurred in any part of the lift or its attachment to the vehicle which could affect the function of the lift.

Drift

A load of 454 kg is applied to the platform, positioned at floor level. Measurements are taken of the height of the platform and its angular attitude relative to the vehicle floor. These measurements are repeated after a 15 minute test period.

Verify that the vertical drift of the platform between the two measurements has not exceeded 15mm.

Verify that the angular drift of the platform between the two measurements has not exceeded 2º.

Test to Verify that the Lift Cannot Lift Excessive Load

A load of 454 kg is applied to the platform, positioned at ground level. Actuate the UP control and verify that the platform does not lift (tilt is permissible).

1. Lower platform to the ground.
2. Place 454 kg at center of platform.
3. Press UP switch and verify platform does not lift (tilt is permissible).
4. If platform does not lift, proceed to Dynamic Test. If platform does lift, proceed to step 5, pump relief valve adjustment is necessary.
5. Access relief valve (see illustration on following page). Loosen 9/16" hex nut on the relief valve adjustment screw (do not remove hex nut).
6. Turn adjustment screw counterclockwise 1/8 turn.
7. Press UP switch and verify platform does not lift (tilt is permissible).
8. If platform does not lift, tighten 9/16" hex nut (do not turn relief valve adjustment screw while tightening hex nut). If platform does lift, repeat steps 6 through 8.

Static and Dynamic Tests

Dynamic Test

With 363 kg applied to the platform, verify that the lift is able to operate throughout its full range of normal lifting and lowering.

1. Lower platform to the ground.

2. Place 363 kg at center of platform.

3. Press UP switch and verify that the lift is able to operate throughout its full range of normal lifting and lowering movements.

4. If platform is able to operate throughout its full range of normal lifting and lowering movements, no adjustment is necessary. If platform does not lift, proceed to step 5, pump relief valve adjustment is necessary.

5. Access relief valve (see illustration below). Loosen 9/16" hex nut on the relief valve adjustment screw (do not remove hex nut).

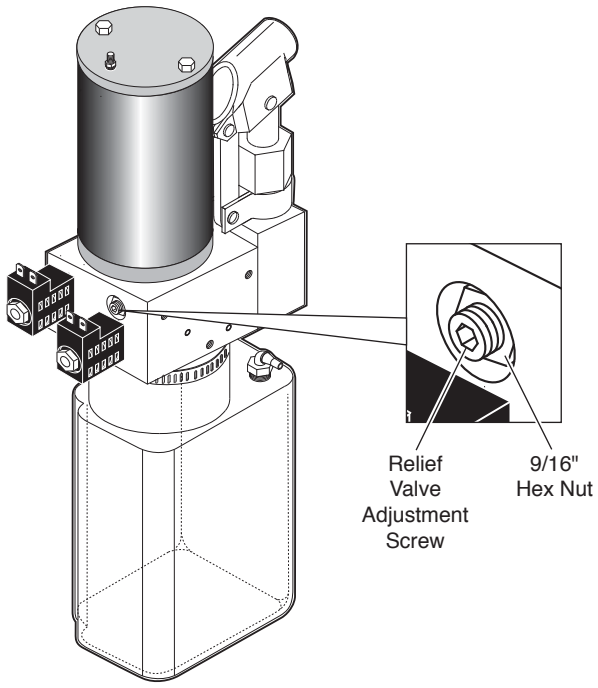
6. Turn adjustment screw clockwise 1/8 turn.

7. Press UP switch and verify lift is able to operate throughout its full range of normal lifting and lowering movement.

8. If lift does not operate throughout its full range, repeat steps 6 through 8. If lift does operate throughout its full range, tighten 9/16" hex nut (do not turn relief valve adjustment screw while tightening hex nut).

Test of Operations and Safety Functions

All functions of the lift and operations of all safety devices are verified after the static and dynamic tests have been completed. These tests do not apply to pipe break valves nor non-resettable safety devices such as electrical fuses (These items are the subject of a manufacturer's type test).



Maintenance and Lubrication

Proper maintenance is necessary to ensure safe, trouble-free lift 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.

Park vehicle on a level surface clear of traffic and bystanders. Place vehicle transmission in “Park” and engage parking brake. Deploy lift to ground level. Provide adequate work space around fully-deployed lift. Perform specified maintenance and lubrication procedures (position lift as required).

Pump Module: When cleaning the exterior of the pump module, first disconnect the unit from its power source. Do not use liquid cleaners, aerosols, abrasive pads, scouring powders or solvents, such as benzine or alcohol. Use a soft cloth lightly moistened with a mild detergent solution. Ensure the surface cleaned is fully dry before reconnecting power.

Other Components: Clean components and the surrounding area before applying lubricants. Clean only with mild detergent and water. Do not clean with solvents. Allow the lift to dry thoroughly and apply lubricants as specified after every cleaning.

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 components. Platform components exposed to contaminants when lowered to the ground may require extra attention.

⚠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.

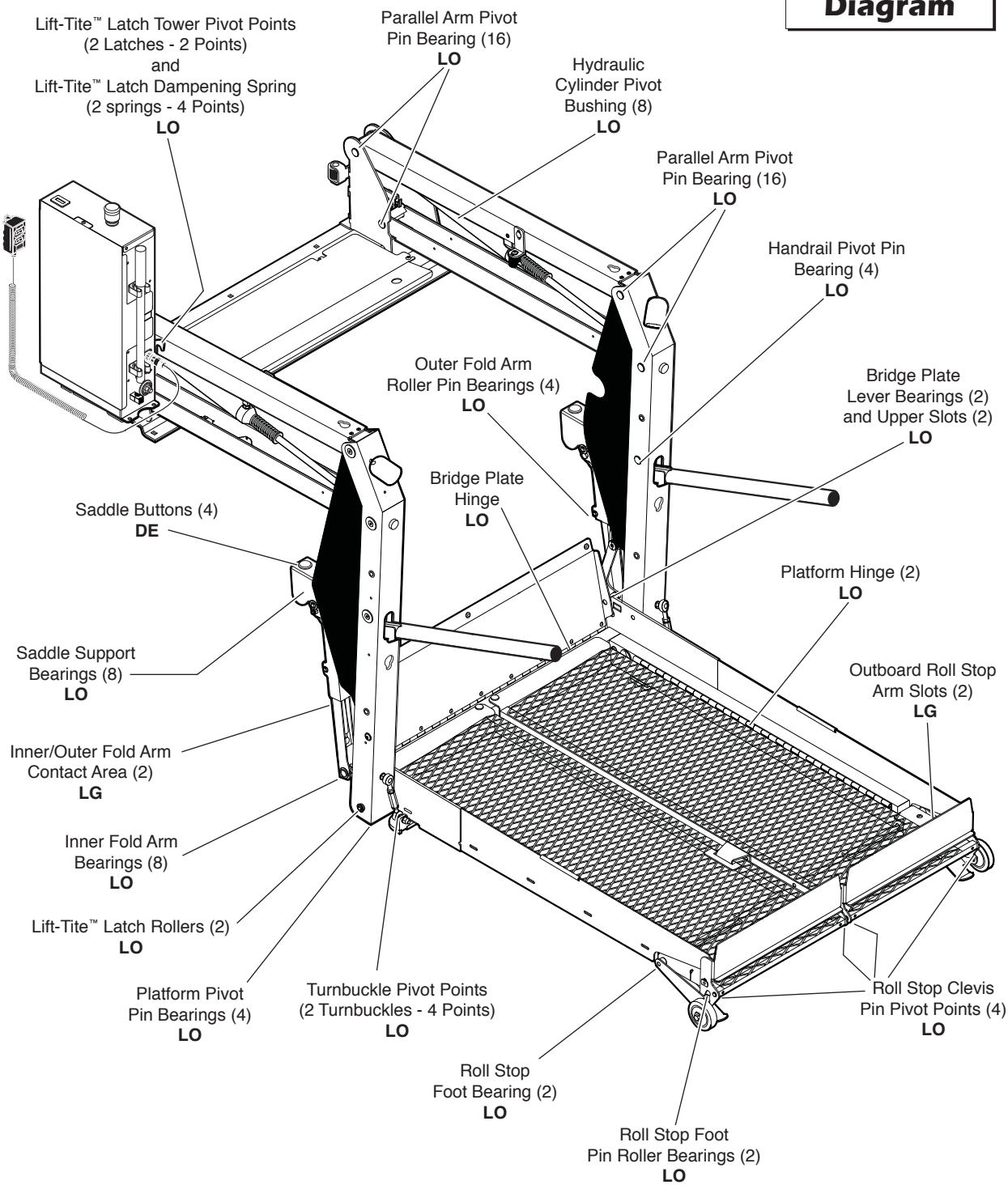
Perform maintenance and lubrication procedures at the scheduled intervals according to the number of cycles. When servicing the lift at the recommended intervals, inspection and lubrication procedures specified in the previous sections should be repeated.

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. Records of maintainence and service procedures should be maintained.

Discontinue lift use if maintenance and lubrication procedures are not properly performed, or if there is any sign of wear, damage or improper operation. Contact your authorized representative.

Maintenance and Lubrication

Lubrication Diagram



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

Lubricant	Type	Specified (recommended) Lubricant	Available Amount	Braun Part No.
LO - Light Oil	Light Penetrating Oil (30 weight or equivalent)	LPS2, General Purpose Penetrating Oil	16 oz. Aerosol Can	15807
DE - Door-Ease	Stainless Stick Style (tube)	Door-Ease Stick (tube)	1.68 oz.	15806
LG - Light Grease	Light Grease (Multipurpose)	Lubriplate	14 oz. Can	15805

Maintenance and Lubrication Schedule

750 Cycles	Bridge plate hinge	Apply Light Oil - See Lubrication Diagram
	Platform hinges (2)	Apply Light Oil - See Lubrication Diagram
	Roll stop clevis pin pivot points (4)	Apply Light Oil - See Lubrication Diagram
	Roll stop pin roller bearings (2)	Apply Light Oil - See Lubrication Diagram
	Roll stop foot bearings (2)	Apply Light Oil - See Lubrication Diagram
	Roll stop arm slots (2)	Apply Light Grease - See Lubrication Diagram
	Lift-Tite™ latches tower pivot points (2 latches - 2 points)	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. Apply Light Grease to Lift-Tite™ latch tower pivot point if replacing latch.
	Inspect bridge plate and roll stop for proper operation	Correct or replace damaged parts.
	Inspect roll stop foot pivot for proper operation, positive securement, and detached or missing spring	Correct or replace damaged parts and/or relubricate. See Lubrication Diagram
	Platform turnbuckle pivot points (2 turnbuckles - 4 points)	Apply Light Oil - 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 roll stop fold pressure (if applicable).	See Platform Fold Pressure Adjustment Instructions.

Maintenance and Lubrication Schedule

1500 Cycles	Inner/Outer 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
	Inner fold arm bearings (8)	Apply Light Oil - See Lubrication Diagram
	Bridge plate lever bearings (2)	Apply Light Oil - See Lubrication Diagram
	Bridge plate lever upper slots (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
	Parallel arm pivot bearings (16)	Apply Light Oil - See Lubrication Diagram
	Handrail pivot pin bearings (4)	Apply Light Oil - See Lubrication Diagram
	Hydraulic cylinder bushings (8)	Apply Light Oil - See Lubrication Diagram
	Inspect bridge plate for: • Wear or damage • Proper operation. Bridge plate should just rest on top surface of the base plate. • Positive securement (both ends)	Resecure, replace or correct as needed. See Platform Angle Adjustment 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 Tower Microswitch Adjustment Instructions.
	Make sure lift operates smoothly	Realign towers and vertical arms. Lubricate or correct as needed.
	Inspect roll stop clevis pin securement set screws	Resecure or replace (apply Loctite® Threadlocker Red 271™ or equivalent).

Maintenance and Lubrication Schedule

1500 Cycles	Inspect external snap rings: • Platform slide/rotate pivot pins (2 per pin) • Platform fold axles (1 per axle) • Bridge plate lever bracket pins (1 per pin) • Lift-Tite™ latch gas (dampening) spring (2 per spring) • Roll stop clevis pins (1 per pin) • Roll stop foot pins (2) • Platform pivot pins (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.
	Inspect turnbuckle assemblies for wear or damage, proper operation and positive securement	Resecure, replace or correct 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, circuit breaker, and power switch for securement or damage	Resecure, replace or correct as needed.
	Inspect Lift-Tite™ latch rollers for wear or damage, positive securement and proper operation (2)	Correct, replace damaged parts and/or relubricate.

4500 Cycles	Inspect cotter pins on platform pivot pins (2)	Resecure, replace or correct as needed
	Hydraulic Fluid (Pump) - Check level. Notice: 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 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 35mm (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.

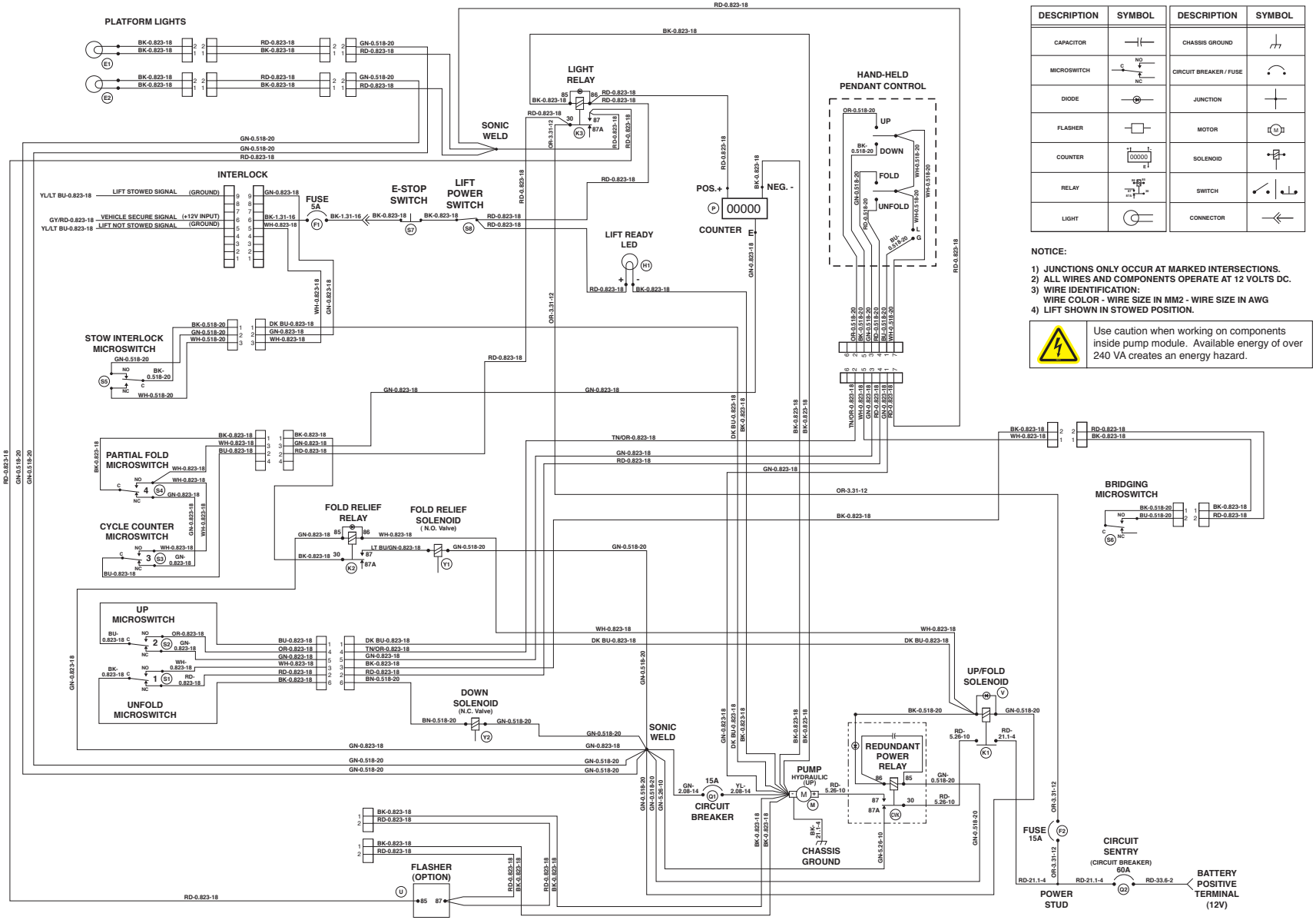
Maintenance and Lubrication Schedule

4500 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 pin, 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 support and associated pivot pins, bushings, 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 bearings buttons (4)	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.

Lift Disposal Procedure	1. Return lift to an authorized dealer for draining of the hydraulic system. 2. Transport lift to a recycling center for recycling.

Lift Electrical Schematic



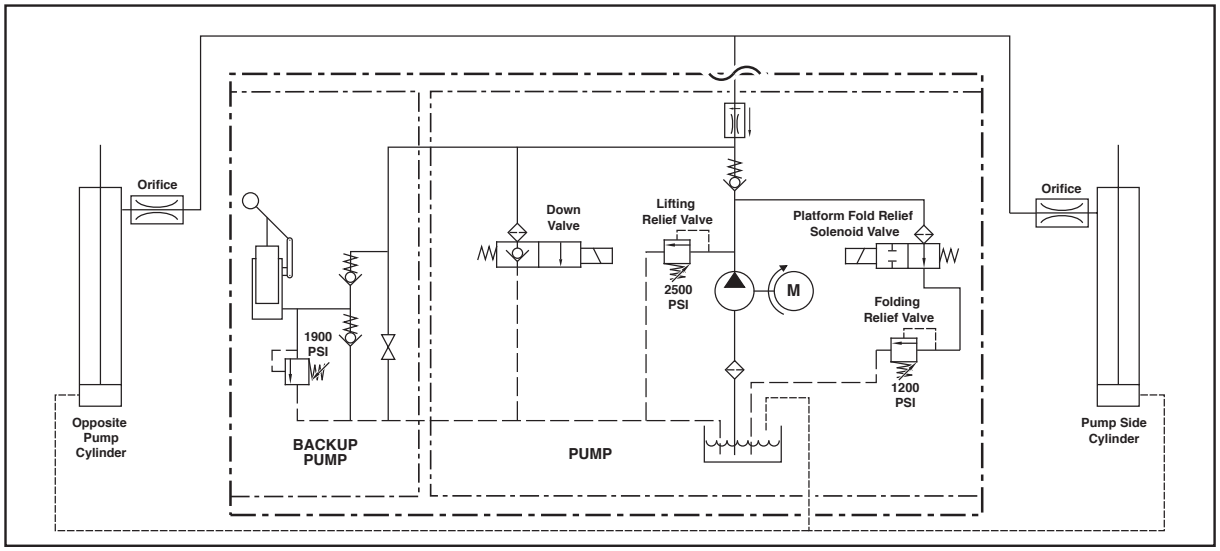
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
CAPACITOR		CHASSIS GROUND	
MICROSWITCH		CIRCUIT BREAKER / FUSE	
DIODE		JUNCTION	
FLASHER		MOTOR	
COUNTER		SOLENOID	
RELAY		SWITCH	
LIGHT		CONNECTOR	

NOTICE:

1) **JUNCTIONS ONLY OCCUR AT MARKED INTERSECTIONS.**
2) **ALL WIRES AND COMPONENTS OPERATE AT 12 VOLTS DC.**
3) **WIRE IDENTIFICATION:**
   WIRE COLOR - WIRE SIZE IN MM2 - WIRE SIZE IN AWG
4) **LIFT SHOWN IN STOWED POSITION.**

Use caution when working on components inside pump module. Available energy of over 240 VA creates an energy hazard.

Hydraulic Schematic



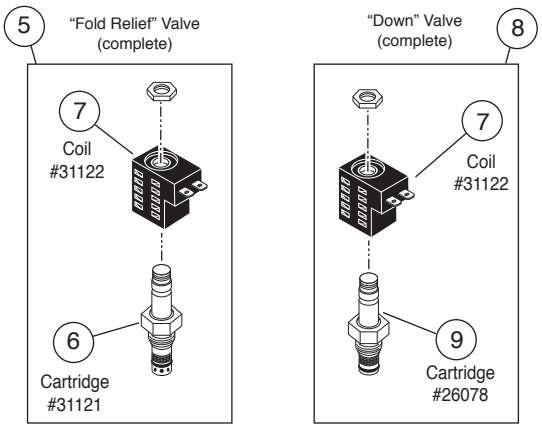
Description	Symbol	Description	Symbol
Fixed Displacement Pump		Hydraulic Port	
Pump Motor		2 Way 2 Position Solenoid Valve	
Backup Pump		Pressure Compensated Flow Control	
Single Acting Cylinder		Relief Valve	
Check Valve		Filter Screen	
Unfold Orifice		Vented Reservoir	
Manual Shutoff Valve			

Hydraulics Parts List

Item	Qty.	Description	Part #
1	1	Pump Assembly (M-268-0116) 120G / 12V / Dual Relief	32858-12V
2	1	Clamp, Reservoir - H-48 (M259)	17069
3	1	Solenoid, 4-Post Trombetta - Angle	35310
4	1	Motor, Pump - 12 Volt - Low RPM	29690
5	1	Valve Assembly, “Fold Relief” (complete)	31120K
6	1	Cartridge (only), “Fold Relief” Valve - (shown below)	31121
7	2	Coil (only) - (shown below)	31122
8	1	Valve Assembly, “Down” (complete)	31348K
9	1	Cartridge (only), “Down” Valve - (shown below)	26078
10	1	Clamp, Hose - Solenoid Mounting	29663
11	1	Reservoir, Hydraulic Fluid	30160
12	1	Cap, Reservoir Filler - Screw On	30167
13	1	Fitting, 90° - 1/8" NPT x 1/8" Barb - Plastic	87563
14	1	Hand Pump (Backup) with O-Rings (Item 16)	26074
15	3	Screw, 1/4-20 x 2-1/4", Allen Head	26080
16	4	O-Ring (only), Hand Pump Mounting	17351
17	1	Diode Assembly, Up Solenoid	73906A
18	1	Hose, Thermal Plastic - Black, 1/8" I.D.	23742R*
19	1	Connector, Plastic “Y”, 1/8” O.D.	18877
20	1	Fitting, Male 7-16-20 SAE O-Ring to Male 7/16-20 JIC 37°	24504
21	1	Elbow, 7/16-20 JIC 37 Female Swivel (1) - 7/16-20 JIC 37° Male (2)	26579
22	1	Hose Assembly, 1/8" (Opposite-Pump-Side)	16004A-078
23	1	Hose Assembly, 1/8" (Pump-Side)	16004A-040
24	2	Cylinder ✓	C1512.8-0408LT
25	2	Elbow, 90°, 7/16-20 SAE O-Ring Male - 7/16-20 JIC 37° Male, Orifice	26667
26	2	Elbow, 90°, 1/4 NPT Male to 1/4" Barbed	15150
27	1	Handle with Grip	17206A
28	1	Kit, Hydraulic Port Service Cap	27049K

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

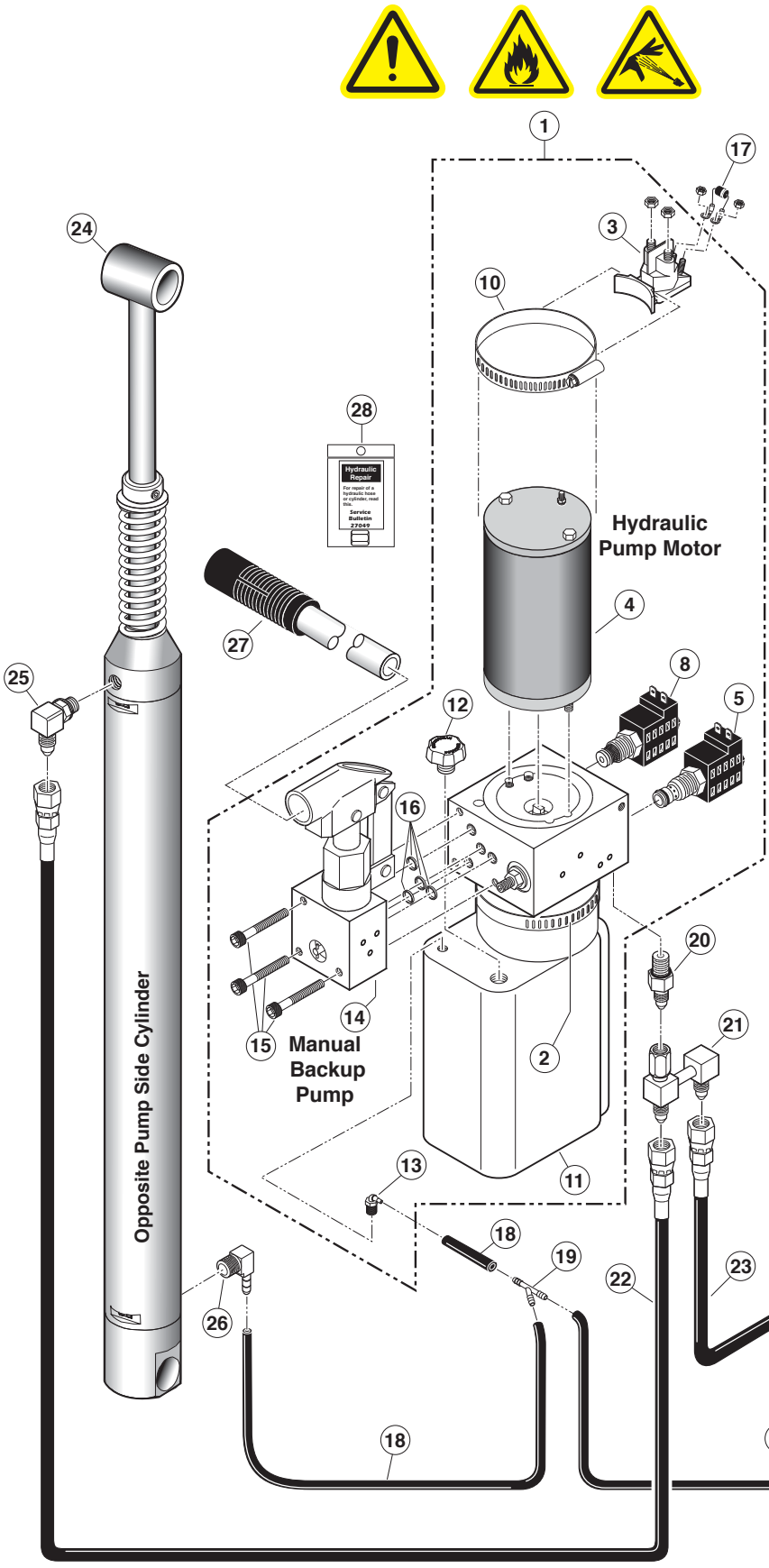
* Raw material items ordered and priced per inch (order specified length).



NOTICE

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).

Hydraulics Diagram



	Use caution when working on components inside pump module. Available energy of over 240 VA creates an energy hazard.

NOTICE

Remove power from pump module and any spark source before working with hydraulic fluid and components. Wear proper eye protection. Use protective gloves for prolonged contact with hydraulic fluid.

Pump Module Parts List

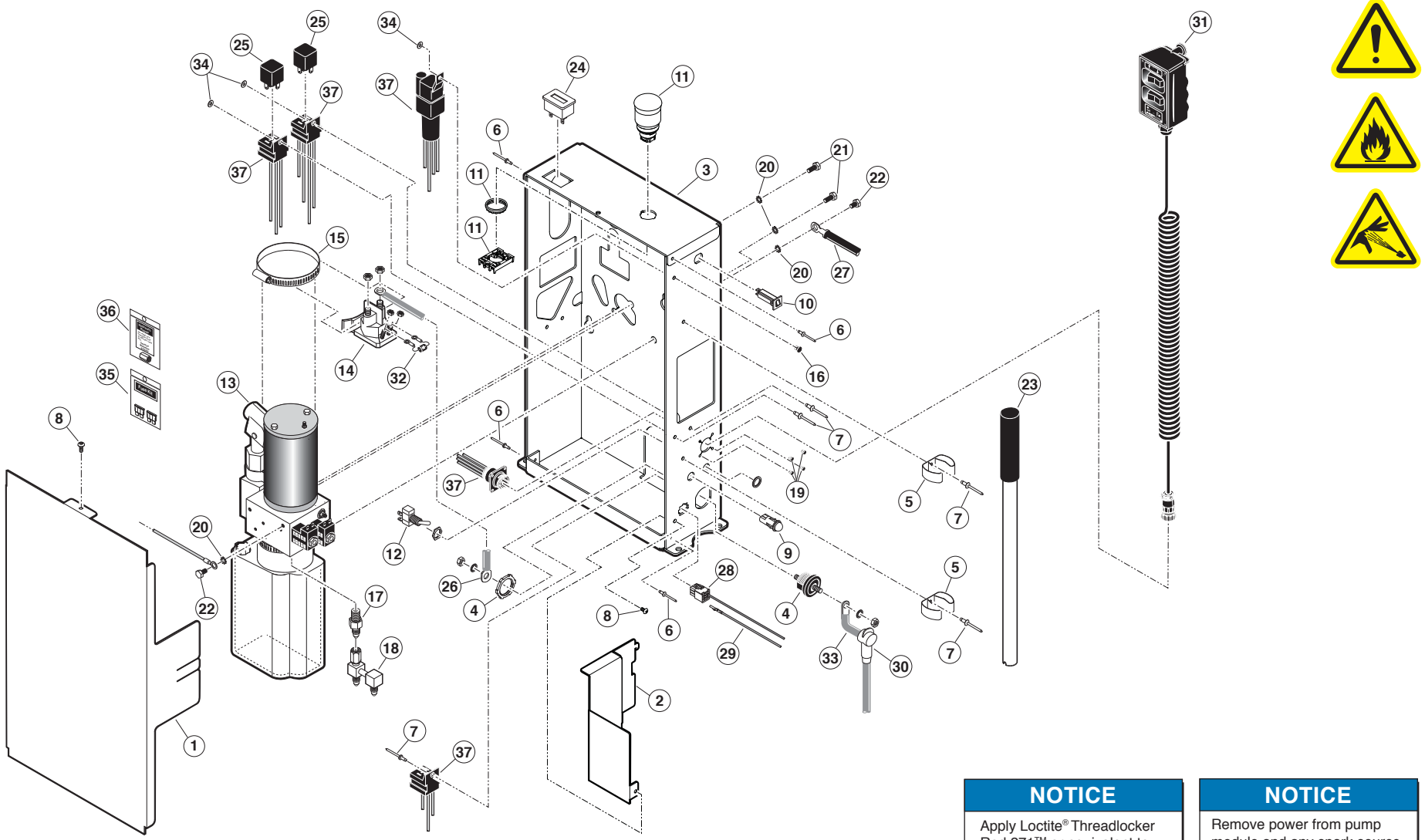
Item	Qty.	Description	Part No.
	1	Pump Module (complete) ✘	V995-0516RA
1	1	Cover, Pump Module	947-2519RN
2	1	Guard, Splash	36377R
3	1	Housing, Pump	991-0513RW
		Housing, Pump Assy (Items 4-13)	991-0513RA
4	1	Stud, Power Feed	26084
5	2	Clamp, Spring - Pump Handle	12350
6	4	Rivet, Pop, SD43BS - 1/8" - .13"/.19"	12954
7	5	Rivet, Pop, SD62BS - 3/16" - .06"/.13"	11512
8	2	Screw, #10-32 x 1/2", BHSC, Auto-Bk	30377
9	1	Diode, Green LED	29545
10	1	Circuit Breaker, Manual Reset - 15 Amperes	35143
11	1	E-Stop Button w/ Retaining Nut	36414-1
12	1	Switch, Toggle w/ Gold Contacts	31787
13	1	Pump Assembly (M268-0116) 12V-120G - Dual Relief (Includes Items 14 & 15)	32858-12V
14	1	Solenoid, Up - 4-Post Trombetta - Angle	35310
15	1	Clamp, Hose - Solenoid Mounting	29663
16	1	Rivet, Snap - Black .201" x .217/.256"	25973
17	1	Fitting, Male 7/16-20 O-Ring to Male 7/16-20 JIC 37°	24504
18	1	Elbow, Manifold - Female Swivel 7/16-20 JIC 37° to (2) Male 7/16-20 JIC 37°	26579
19	4	Rivet, Snap, .122" Dia. - .158" -.197" Thick	25759
20	4	Washer, 5/16" External Tooth	16368
21	2	Bolt, 5/16-18 x 3/4", Nylock, Hex * See note below	29608
22	2	Bolt, 5/16-18 x 1/2", Nylock, Hex * See note below	10012
23	1	Pump Handle with Grip	17206A
24	1	Cycle Counter, LCD w/o Reset	30547
25	2	Relay, 30/40A SPDT 12V with Internal Diode	35249
26	1	Cable, Pump Module Power	26082A-4
27	1	Cable, Lift / Chassis Ground	22166A
28	1	Wire Assembly, Lift Interlock Connection	31797A
29	1	Wire Assembly, Lift Stowed Connection ♦	31798A
30	1	Rubber Boot, Red ♦	82046
31	1	Control, Hand Pendant Assembly - Non Electronic / Non Shielded - Coiled ♦	36509A
32	1	Diode Assembly, Up Solenoid	73906A
33	1	Harness, Lift Power ♦	33688A
34	3	Washer, #10 Flat	11541
35	1	Fuse Kit, 5 Amperes (F1) & 15 Amperes (F2)	36521K
36	1	Kit, Hydraulic Port Service Cap	27049K
37	1	Harness, Main	V917-0500A
38	1	Harness, Bridge Input ✘	35608RA
39	1	Harness, Extension Lighting ✘	31033A45
40	1	Harness, Extension Lighting ✘	31033A84
41	1	Harness, Tower (Pump Side) ✘	37014A
42	1	Harness, Tower (Opposite Pump Side) ✘	37010A
43	1	Harness, Stow ✘	33377RA
44	1	Hose Assy, 1/8" (Opposite Pump Side) ✘	16004A-078
45	1	Hose Assy, 1/8" (Pump Side) ✘	16004A-040
46	1	Hose, 1/8" Thermal Plastic ✘ (Raw material ordered and priced per inch - order specified length)	23742R
47	1	Connector, Plastic Y-1/8" O.D. ✘	18877

✘ Indicates items not shown.

▲ Apply Loctite® Threadlocker Red 271™ or equivalent to the four hex bolts (items 21 & 22) if a blue nylon patch is not present on the bolts when retrofitting an M268-0118 pump assembly.

♦ Indicates items available for replacement part purposes only. These items are not included with replacement pump modules.

Pump Module Diagram



Use caution when working on components inside pump module. Available energy of over 240 VA creates an energy hazard.

NOTICE

Apply Loctite® Threadlocker Red 271™ or equivalent to the four hex bolts (items 21 & 22) if a blue nylon patch is not present on the bolts when retrofitting an M268 pump assembly.

NOTICE

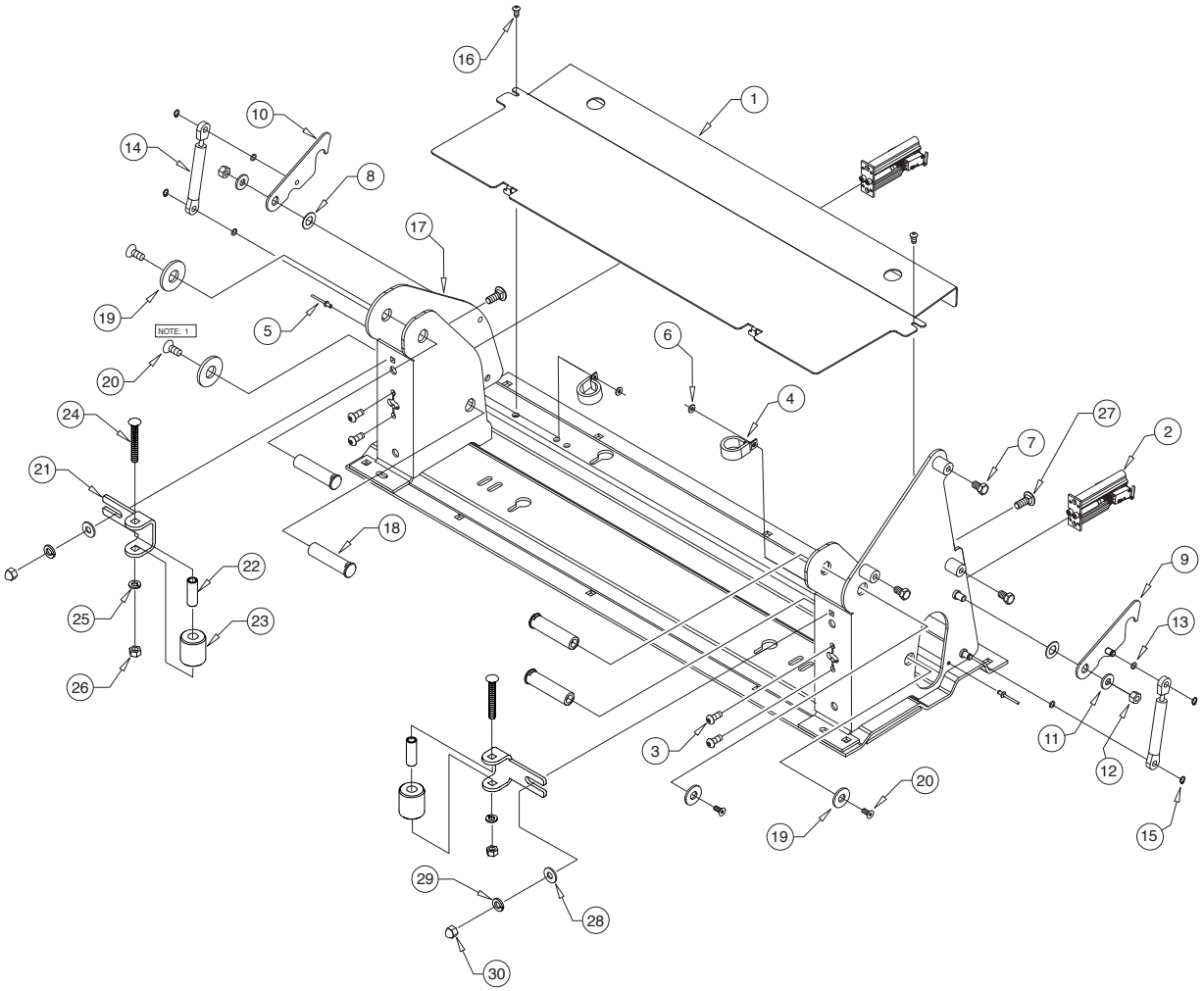
Remove power from pump module and any spark source before working with hydraulic fluid and components. Wear proper eye protection. Use protective gloves for prolonged contact with hydraulic fluid.

Exploded Views and Parts Lists

Base Plate Assembly

NOTICE

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

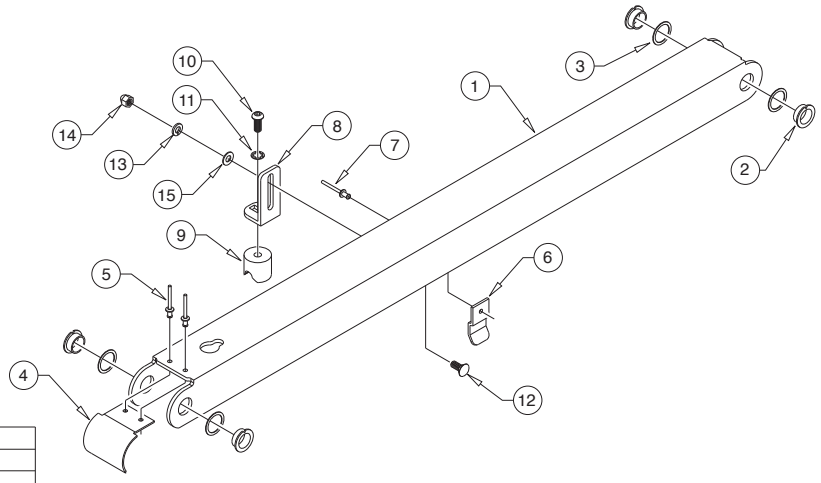


ITEM	QTY.	PART NO.	DESCRIPTION
15	4	24570	RING-5/16" EXT SNAP/ZINC PLATED
14	2	26963	SPRING-DAMP5.67 E/4.291 C,P1=3.37N-RET
13	4	26614	O-RING-5/16"ID X 1/16"
12	2	28339BK	NUT-3/8-16 UNC TOP LOCK/AUTO-BK
11	2	10063	WASHER-5/16" FLAT
10	1	27013RW	WMT-LATCH-LIFT-TITE REAR-RETRO
9	1	27013FW	WMT-LATCH-LIFT-TITE FRONT-RETRO
8	2	11913	WASHER-1/2" NYLON
7	3	29729	BOLT-3/8-16 X 1/2" w/NYLOCK PATCH
6	2	11541	WASHER-#10 FLAT/AUTO-BK
5	2	14993	RIV-POP-SD66BS-3/16"-.25"/.38"/AUTO-BK
4	2	29765	CLAMP-INSULATE 1 3/8"
3	4	24440	BOLT-5/16-18 X 3/4"-BHSC/AUTO-BK
2	2	975-4121A	MICRO SWITCH ASSY.
1	1	917-2149-30	BASE COVER EXTENSION-30"

ITEM	QTY.	PART NO.	DESCRIPTION
30	2	30996BK	NUT-5/16-18 ACORN
29	2	10068	WASHER-5/16" LOCK / AUTO BLACK
28	2	10062	WASHER-1/4" FLAT / AUTO BLACK
27	2	15858BK	BOLT-CARRIAGE 5/16-18 X 3/4" / AUTO-BK
26	2	10058	NUT-5/16-18 HEX / AUTO BLACK
25	2	10068	WASHER-5/16" LOCK / AUTO BLACK
24	2	17519	BOLT-CARRIAGE 5/16-18 X 2 1/4" GR5 ZINC
23	2	35300	ROLLER-PLATFORM HALF STABILIZER
22	2	35298	AXLE-ROLLER-PLATFORM HALF STABILIZER
21	2	35419	BKT-ROLLER-PLATFORM HALF STABILIZER
20	4	25527	SCREW-5/16-18 X 3/4" FHS/AUTO-BK
19	4	25346	WASHER-1/2" FLAT/AUTO-BK
18	4	936-0403	PIN-PIVOT PARALLEL
17	1	991-2142RW30	WMT-BASE-REAR-26/FTG
16	2	15733	BOLT-1/4-20 X 1/2" BUT HD SOC/AUTO-BK

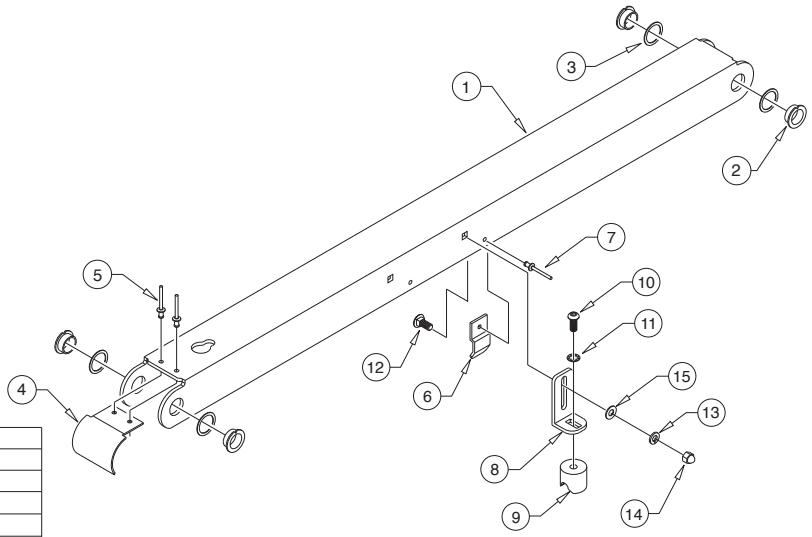
Exploded Views and Parts Lists

Top Parallel Arm Assembly - Front



ITEM	QTY.	PART NO.	DESCRIPTION
15	1	10062	WASHER-1/4" FLAT/AUTO-BK
14	1	30996BK	NUT-5/16-18 ACORN
13	1	10068	WASHER-5/16" LOCK/AUTO-BK
12	1	15858BK	BOLT-CARR 5/16-18 X 3/4/AUTO-BK
11	1	16368	WASHER-5/16" EXTERNAL TOOTH
10	1	24440	BOLT-5/16-18 X 3/4-BHSC/AUTO-BK
9	1	28593A	ASSY-BLOCK-GUIDE-PLATFORM-STOW
8	1	955-2392CLXT	BKT.-QUIET-RIDE MTG.-955
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	991-0401FA	ARM-PARALLEL/TOP-FRONT (Incl. Items 1-15)

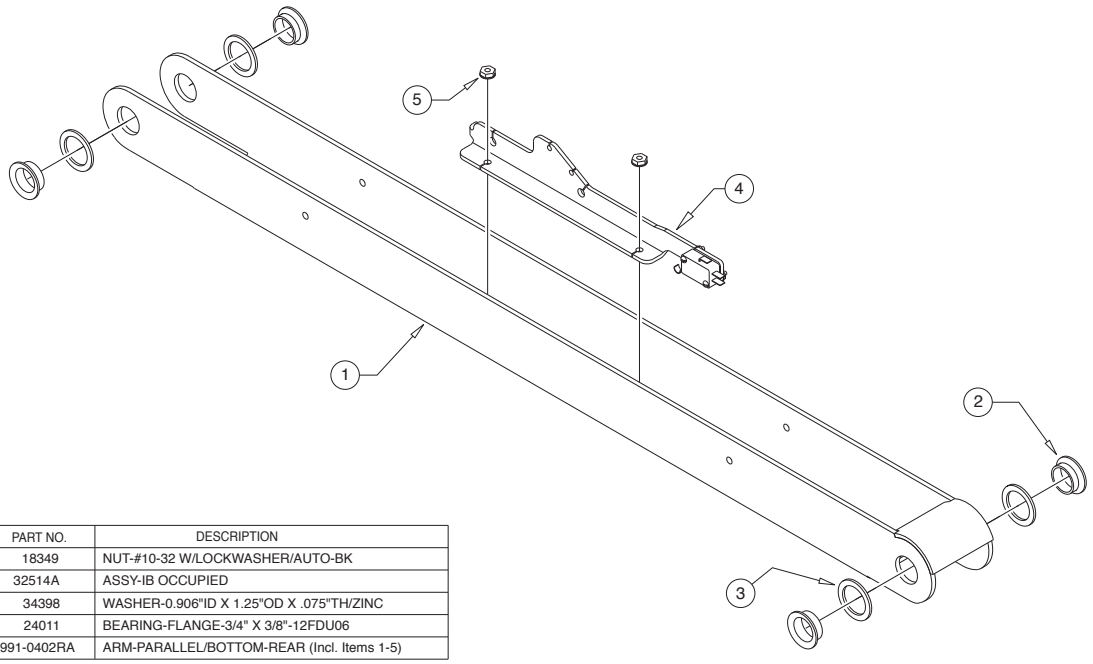
Top Parallel Arm Assembly - Rear



ITEM	QTY.	PART NO.	DESCRIPTION
15	1	10062	WASHER-1/4" FLAT/AUTO-BK
14	1	30996BK	NUT-5/16-18 ACORN
13	1	10068	WASHER-5/16" LOCK/AUTO-BK
12	1	15858BK	BOLT-CARR 5/16-18 X 3/4/AUTO-BK
11	1	16368	WASHER-5/16" EXTERNAL TOOTH
10	1	24440	BOLT-5/16-18 X 3/4-BHSC/AUTO-BK
9	1	28593A	ASSY-BLOCK-GUIDE-PLATFORM-STOW
8	1	955-2392CLXT	BKT.-QUIET-RIDE MTG.-955
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	991-0401RA	ARM-PARALLEL/TOP-REAR (Incl. Items 1-15)

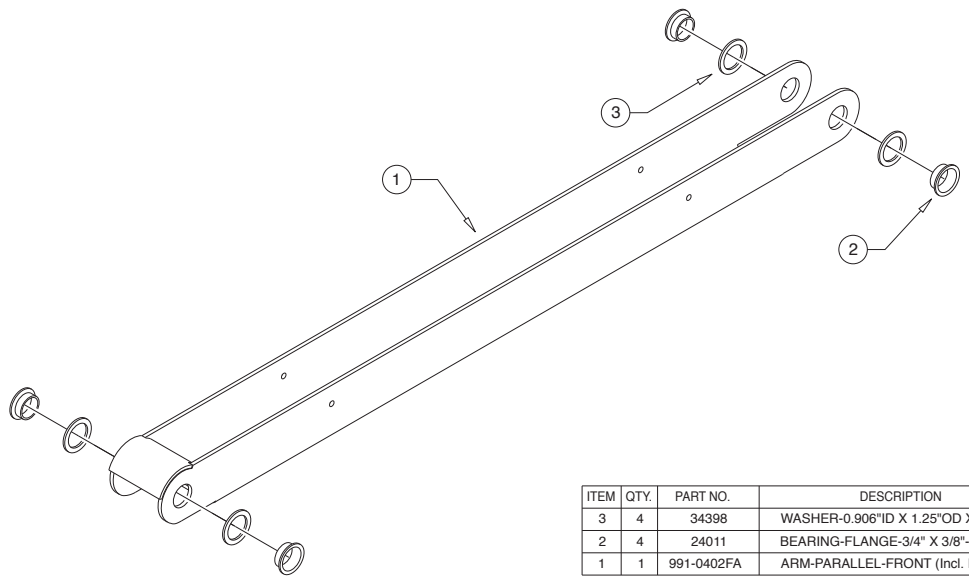
Exploded Views and Parts Lists

Bottom Parallel Arm Assembly - Pump Side



ITEM	QTY.	PART NO.	DESCRIPTION
5	2	18349	NUT-#10-32 W/LOCKWASHER/AUTO-BK
4	1	32514A	ASSY-IB OCCUPIED
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	991-0402RA	ARM-PARALLEL/BOTTOM-REAR (Incl. Items 1-5)

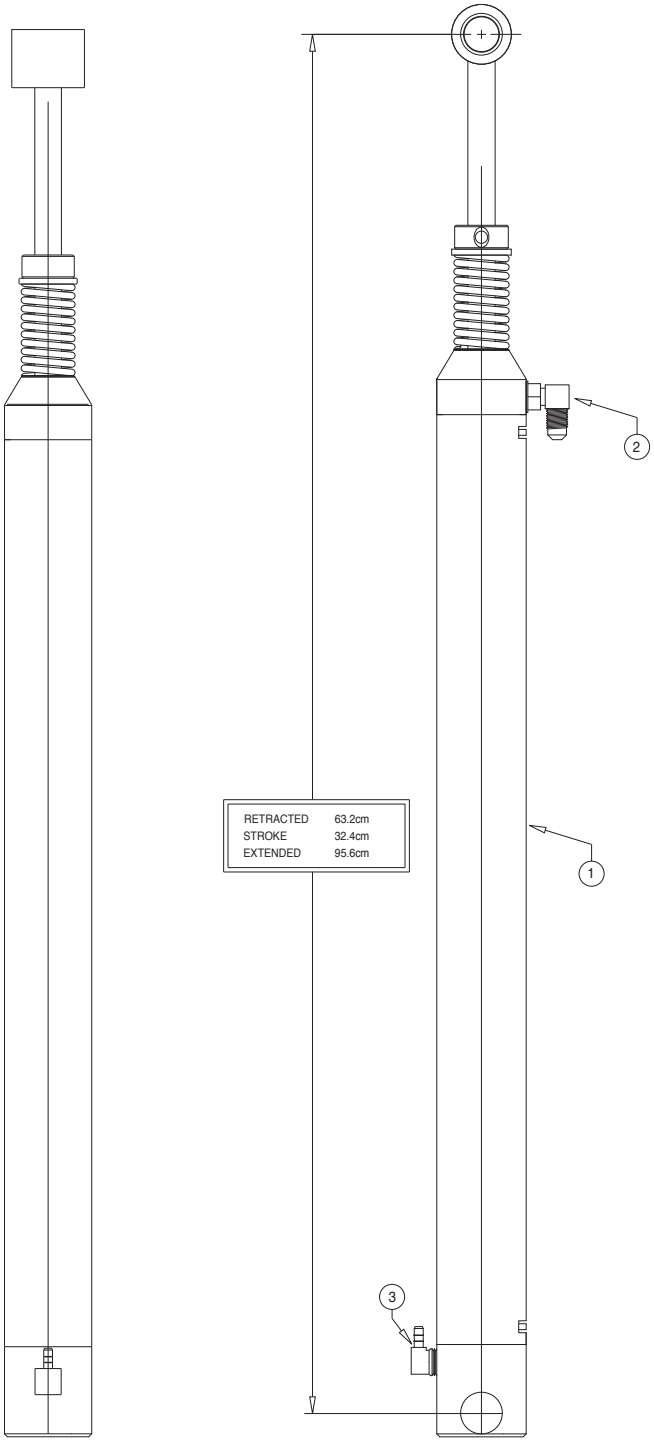
Bottom Parallel Arm Assembly - Opposite Pump Side



ITEM	QTY.	PART NO.	DESCRIPTION
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	991-0402FA	ARM-PARALLEL-FRONT (Incl. Items 1-3)

Exploded Views and Parts Lists

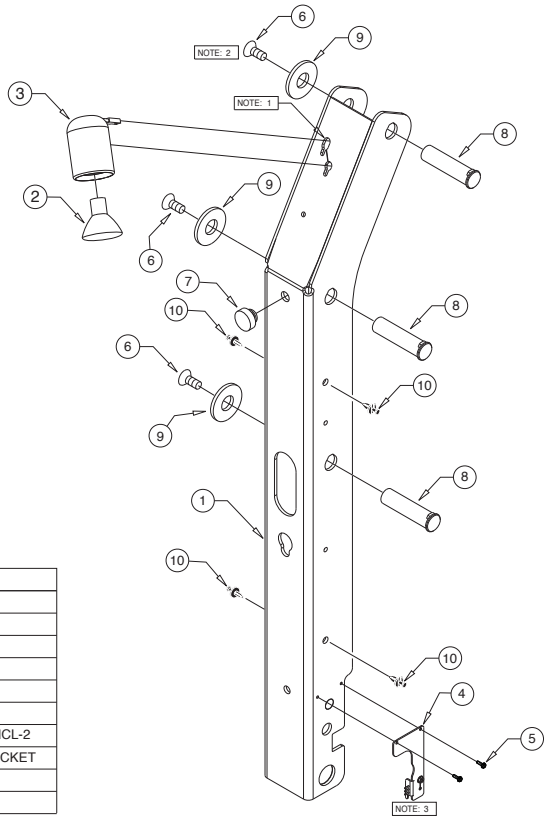
Hydraulic Cylinder Assembly



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	C1512.8-0408LT	CYLINDER-12.750"/24.883 RETRACTED

Exploded Views and Parts Lists

Vertical Arm Assembly - Rear



NOTICE

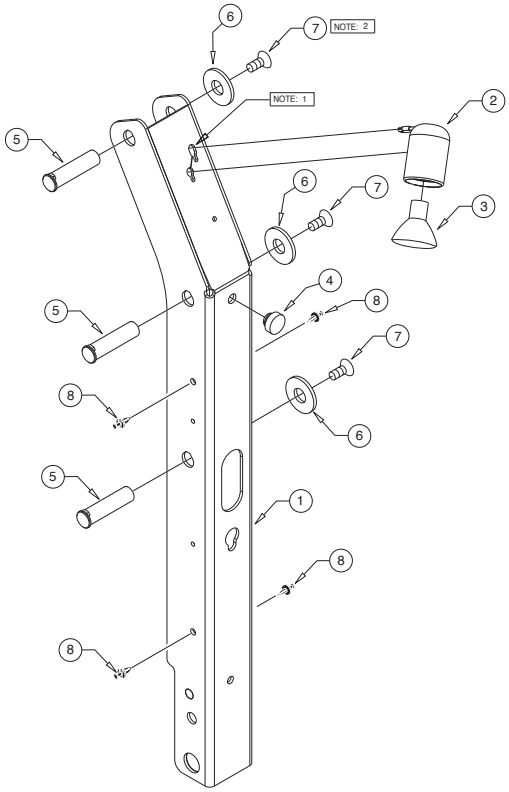
1) INSERT SOCKET OF LIGHT ASSY THRU TOP KEY WHILE INSTALLING LIGHT. TIGHTEN SCREWS.

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

3) HARNESS TO BE TUCKED INSIDE CHANNEL.

ITEM	QTY.	PART NO.	DESCRIPTION
10	4	30063	RIVET-PUSH IN-8MM
9	3	25346	WASHER-1/2" FLAT/AUTO-BK
8	3	936-0403	PIN-PIVOT PARALLEL
7	1	32408	RUBBER BUMPER-VERT CHAN.
6	3	25527	SCREW-5/16-18 X 3/4" FHS/AUTO-BK
5	2	37049	SCREW-#4-40 X 3/8"-THREAD FORM
4	1	33689A	ASSY-BRIDGE SWITCH W/HARNESS-NL/NCL-2
3	1	31062A	ASSY-LIGHT-VERT. CHANNEL/PHILIPS SOCKET
2	1	31060	BULB-LIGHT-20W-HALOGEN REFLECTOR
1	1	991-2442RW	WMT-VERTICAL CHANNEL-REAR-26"FTG

Vertical Arm Assembly - Front



NOTICE

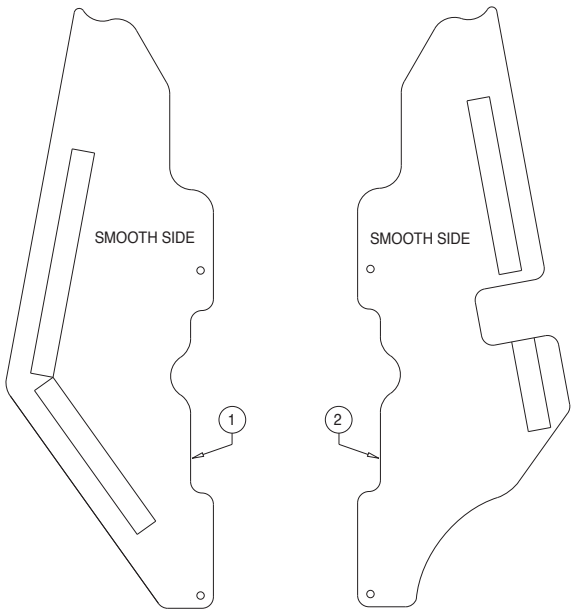
1) INSERT SOCKET OF LIGHT ASSY THRU TOP KEY WHILE INSTALLING LIGHT. TIGHTEN SCREWS.

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

ITEM	QTY.	PART NO.	DESCRIPTION
8	4	30063	RIVET-PUSH IN-8MM
7	3	25527	SCREW-5/16-18 X 3/4" FHS/AUTO-BK
6	3	25346	WASHER-1/2" FLAT/AUTO BK
5	3	936-0403	PIN-PIVOT PARALLEL ARM
4	1	32408	RUBBER BUMPER-VERT CHAN.
3	1	31060	BULB-LIGHT-20W-HALOGEN REFLECTOR
2	1	31062A	ASSY-LIGHT-VERTICAL CHANNEL w/BULB
1	1	991-2442FW	WMT-VERTICAL CHANNEL-FRONT-26"FTG

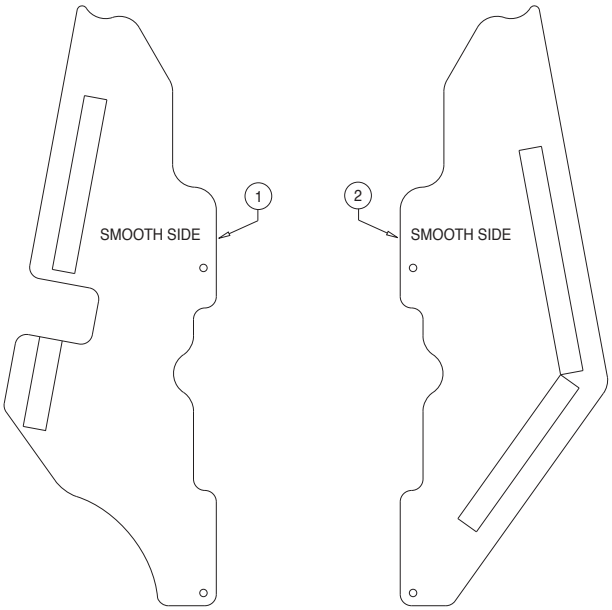
Exploded Views and Parts Lists

Front Arm Cover Assembly



ITEM	QTY.	PART NO.	DESCRIPTION
2	1	991-0701A	COVER-PLASTIC-PARALLEL ARM-INSIDE-FRONT
1	1	991-0704A	COVER-PLASTIC-PARALLEL ARM-OUTSIDE-FRONT

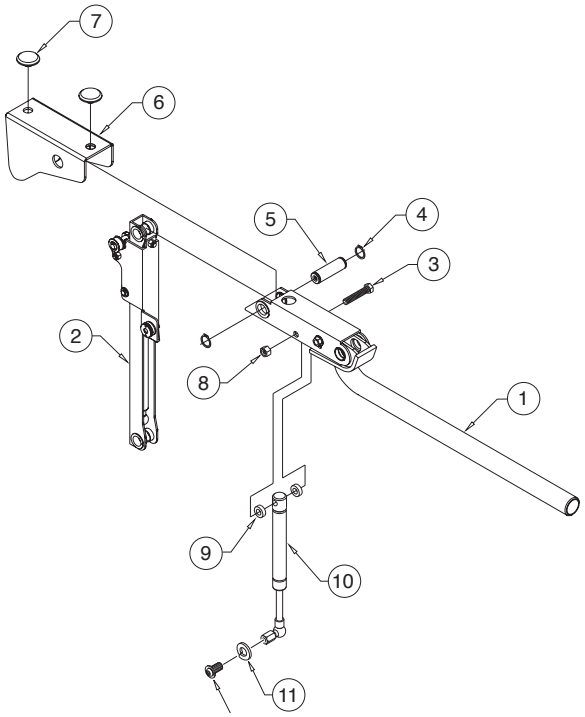
Rear Arm Cover Assembly



ITEM	QTY.	PART NO.	DESCRIPTION
2	1	991-0702A	COVER-PLASTIC-PARALLEL ARM-OUTSIDE-RR
1	1	991-0703A	COVER-PLASTIC-PARALLEL ARM-INSIDE-RR

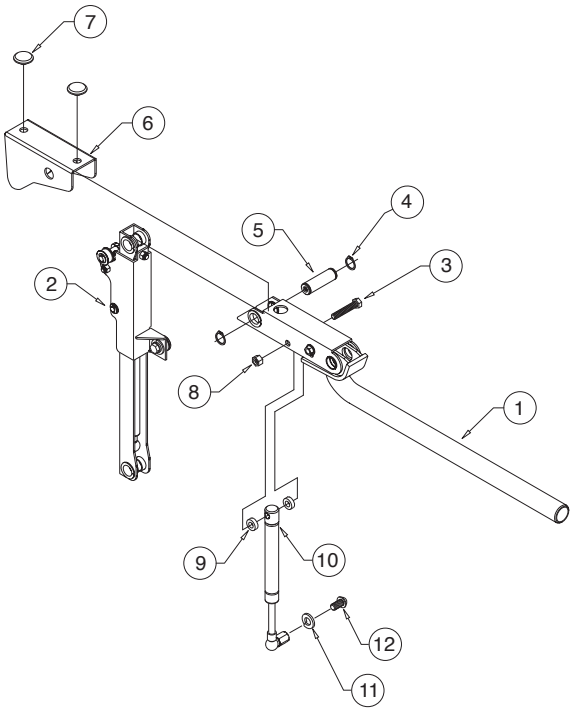
Exploded Views and Parts Lists

Front Handrail Assembly



ITEM	QTY.	PART NO.	DESCRIPTION
12	1	25171	BOLT-3/8-16 X 3/4" FLBHSCS-GD8
11	1	10069	WASHER-3/8" LOCK
10	1	29186A	GAS SPRING ASSY-14.468 EXT/8.956 COMP
9	2	30227	WASHER-UHMW 0.75" OD X 0.39" ID X 0.25"
8	1	13617	NUT-3/8-16 UNC HEX LOCK/AUTO-BK
7	2	205-1760	BEARING-UHMW FLAT/1226-THN-BLK
6	1	997-0606	SLIDE-PLATFORM ROTATE
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	991-0640FA	ASSY-FOLD ARM-26" FTG-FRONT
1	1	955-0618A	HANDRAIL ASSY

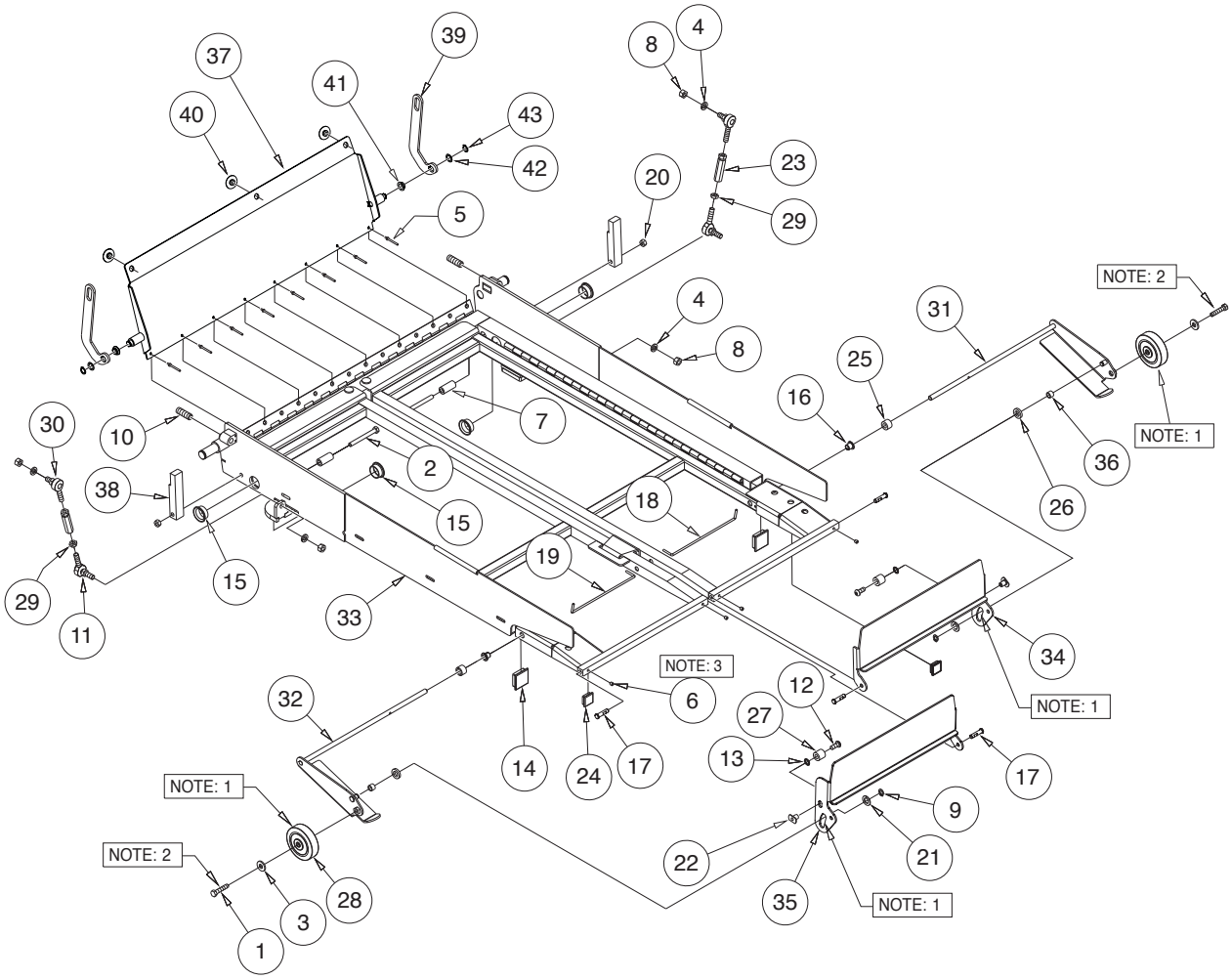
Rear Handrail Assembly



ITEM	QTY.	PART NO.	DESCRIPTION
12	1	25171	BOLT-3/8-16 X 3/4" FLBHSCS-GD8
11	1	10069	WASHER-3/8" LOCK
10	1	29186A	GAS SPRING ASSY-14.468 EXT/8.956 COMP
9	2	30227	WASHER-UHMW 0.75 OD X 0.39 ID X 0.25
8	1	13617	NUT-3/8-16 UNC HEX LOCK/AUTO-BLK
7	2	205-1760	BEARING-UHMW FLAT/1226-THN-BLK
6	1	997-0606	SLIDE-PLATFORM-ROTATE
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	991-0640RA	ASSY-FOLD ARM-26" FTG-REAR
1	1	955-0618A	HANDRAIL ASSY

Exploded Views and Parts Lists

Platform Assembly



NOTICE

1) APPLY GREASE B.C.# 28598 TO SLOTS ON INDICATED ROLL STOP FLANGES AND WHEEL BUSHINGS
2) USE LOCTITE® THREADLOCKER BLUE 242® OR EQUIVALENT ON SCREWS (B.C. #10014)
3) USE LOCTITE® THREADLOCKER RED 271™ OR EQUIVALENT ON SET SCREWS (B.C. #11563)

ITEM	QTY	PART NUMBER	DESCRIPTION
22	2	30047	NUT-WELD-5/16-18 x 3/8" PLAIN SLAB BASE
21	2	29371	WASHER-THRUST-.875 OD/.50 ID/.0585T
20	2	28324BK	NUT-5/16-18 TOP LOCK/AUTO-BK
19	1	28132R	ROD-5/32"-TORSION SPRING BAR-RR
18	1	28132F	ROD-5/32"-TORSION SPRING BAR-FR
17	4	37667	PIN-CLEVIS-5/16"
16	2	28128	BEARING-FLANGE-10MM X 12MM-BB1012DU
15	4	28031	BEARING-FLANGE-1 X 1/2-16FDU08
14	2	27843	PLUG-END CAP-1.5" SQUARE TUBE
13	2	25844	WASHER-3/8" EXTERNAL STAR
12	2	24440	BOLT-5/16-18 X 3/4-BHSC/AUTO-BK
11	2	18842	ROD END W/STUD-3/8"-24 UNF RH
10	2	18663	SCREW-1/2-20 X 1.5 SET-LOCK/AUTO-BK
9	2	13889	RING-1/2 EXT SELF LOCK SNAP/AUTO-BK
8	4	11980	NUT-3/8-24 HEX
7	2	1173R001.38	TUBING-5/8 X .120W X .385 ID/DOM 1020 X 1.38
6	4	11563	SCREW-1/4-20 X 1/4 SET CUP PT
5	8	11513	RIV-POP-SD64BS-3/16"-.13/.25/AUTO-BK
4	4	10069BK	WASHER-3/8" LOCK/AUTO-BK
3	2	10063	WASHER-5/16 FLAT
2	2	10017	BOLT-5/16-18 X 3" HEX HD. CAP
1	2	10014	BOLT-5/16-18 X 1 1/2" HEX HD. CAP

ITEM	QTY	PART NUMBER	DESCRIPTION
43	2	13273	RING-1/2 EXT SELF LOCK SNAP/AUTO-BK
42	2	25336	WASHER-.516ID X .75OD X .0250/AUTO-BK
41	2	24442	BEARING-FLANGE-1/2" X 1/4"-08FDU04
40	3	916-5406	BEARING-UHMW FLAT-THIN-BLK
39	2	997-0404	LEVER-INBOARD BARRIER
38	2	998-0311	STOP-PLATFORM
37	1	997-0727IBW30Y	WMT-BRIDGE PLATE-VL997/30" (997-0727IBA30Y INCL. ITEMS # 37, 39-43)
36	2	994-0336	BEARING-ROLL STOP
35	1	994-0312R-30Y	ROLL STOP - REAR
34	1	994-0312F-30Y	ROLL STOP - FRONT
33	1	994-03042IBW	WMT-PLATFORM-30" x 42"
32	1	994-0204RW30	LATCH FOOT/REAR/WMT
31	1	994-0204FW30	LATCH FOOT/FRONT/WMT
30	2	89092-000	ROD END W/STUD/SHORT - 3/8-24 LH
29	2	83074	NUT-3/8-24 HEX JAM
28	2	51260	WHEEL-3" w/HUB-FRT SEAT-ENTRV
27	2	36345	BLOCK-QUIET RIDE-ROLL STOP-VL996
26	2	36341	SPACER-ROLL STOP
25	2	36339	SPACER-UHMW 0.75 OD x 0.406 ID x 0.50
24	2	35187	CAPLUG-1" SQUARE x 0.120 WALL-BLACK
23	2	32184	LINKAGE-HEX 3/8-24 LH/RH 2 3/8"

Decals and Antiskid

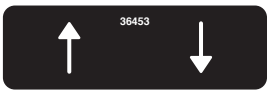
Notice: Clean surfaces with isopropyl alcohol before decal or antiskid application. Use a clean cloth or paper towels. Do not use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.

Antiskid

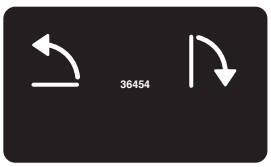
Antiskid		
Size	**Color**	**Part No.**
51 mm x 305 mm (2" x 12")	Black	24172-BK
76 mm x 305 mm (3" x 12")	Black	24173-BK
152 mm x 305 mm (6" x 12")	Black	24174-BK
152 mm x 203 mm (6" x 8")	Black	28311-BK
152 mm x 254 mm (6" x 10")	Black	32038-BK
152 mm x 305 mm (6" x 12")	Black	24174-BK
19 mm x 610 mm (.75" x 24")	Yellow	26548-24
19 mm x 711 mm (.75" x 28")	Yellow	26548-28

Decals

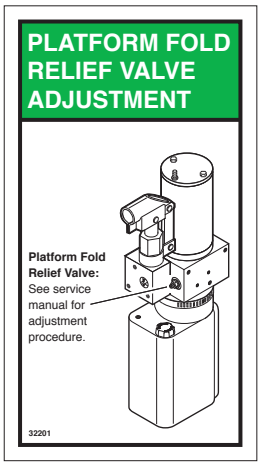
37591
Decal, Warn, Instl/Serv &
QC Insp, Intl, CE
(70 mm x 92 mm - 2.75" x 3.613")



36453
Decal, Up/Down Pendant Rocker
(35 mm x 11 mm - 1.375" x .8125")



36454
Decal, Fold/Unfold Pendant Rocker
(35 mm x 11 mm - 1.375" x .8125")



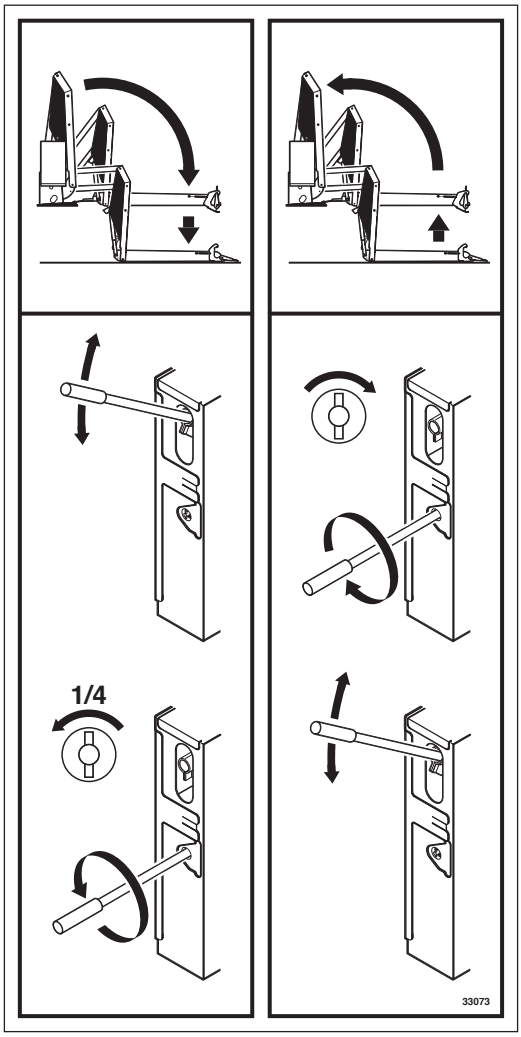
32201
Decal, Dual Relief Adjustment
(44 mm x 80 mm - 2" x 3")

(2 Sizes Available)

24369-10
Decal, Stripes, Yellow & Black Lexan
(38 mm x 254 mm - 1.5" x 10")

24369-12
Decal, Stripes, Yellow & Black Lexan
(38 mm x 305 mm - 1.5" x 12")

Decals and Antiskid



33073
Decal, Manual OP-INTL Public DPA-Pictoral
(90 mm x 181 mm - 3.563" x 7.125")

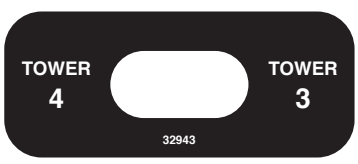
37588
Decal, Authorized Rep, Autoadapt,
Intl, CE
(51 mm x 80 mm - 2" x 3.15")

32094
Decal, Reflector/Light Kit
(54 mm x 89 mm - 2.125" x 3.5")

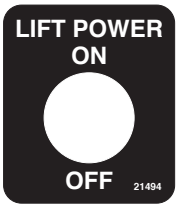
36512
Decal, Hazard, Hot Lights,
DPA, Intl, Pictoral
(38 mm x 34 mm - 1.5" x 1.34")

36514
Decal, Hazard, Stay Clear,
Intl, Pictoral
(41 mm Dia. - 1.625" Dia)

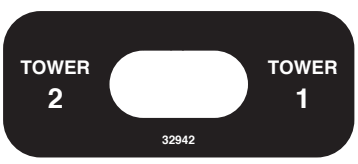
36513
Decal, Hazard, Electrical Shock,
Intl, Pictoral
(38 mm x 34 mm - 1.5" x 1.34")



32943
Switch Label -
Tower 4 and Tower 3
(54 mm x 89 mm - 2.125" x 3.5")

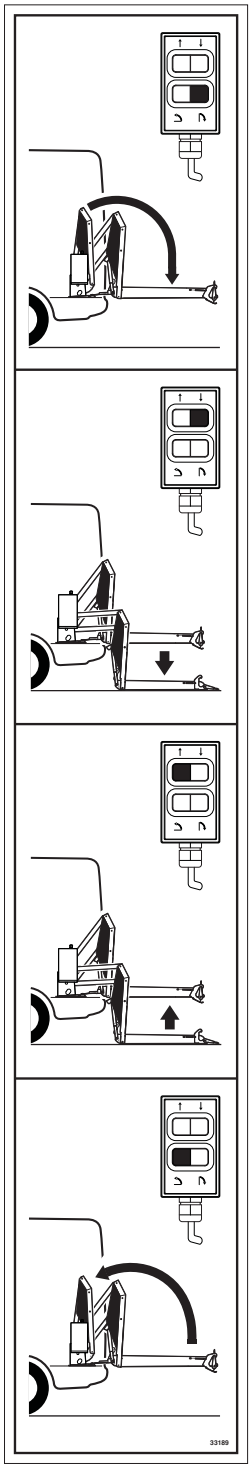


21494
Lift Power On/Off
(30 mm x 35 mm - 1.188" x 1.375")



32942
Switch Label -
Tower 2 and Tower 1
(54 mm x 89 mm - 2.125" x 3.5")

Decals and Antiskid



33189
Decal, Lift OP-Intl
Public DPA-Pictoral
(64 mm x 381 mm - 2.5" x 15")

36515
Decal, Label, Emergency Stop,
Intl, CE
(70 mm Dia. - 2.75" Dia.)

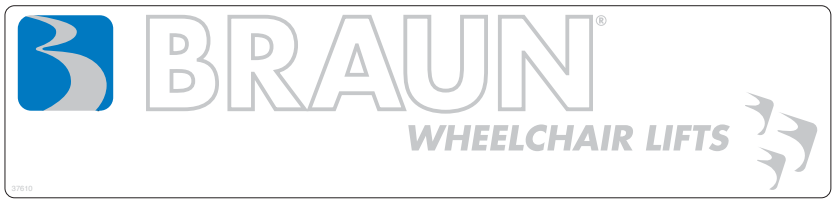
30236R
Tape, Vinyl, Yellow
(25 mm - 1" Wide)

37609
Decal, Logo,
Vista, Autoadapt
(56 mm x 235 mm - 2.188" x 9.25")

Fuse No.	Voltage	Amperage	SC I/R	Type	Size
F1	32 VDC	5 Ampere	1000A @ 32VDC	FF	0.75"L x 0.2"W x 0.488"H
F2	32 VDC	15 Ampere	1000A @ 32VDC	FF	0.75"L x 0.2"W x 0.488"H

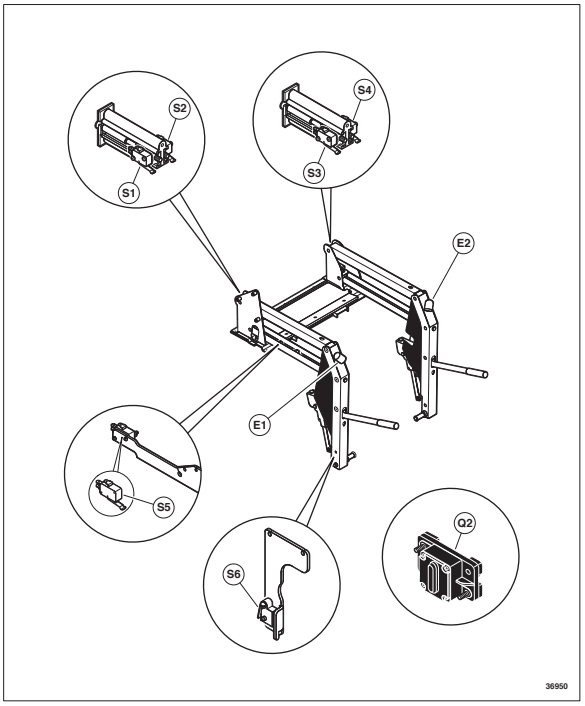
36645

36645
Decal, Fuse Specifications, Intl,
DPA Public
(152 mm x 22 mm - 6" x .875")



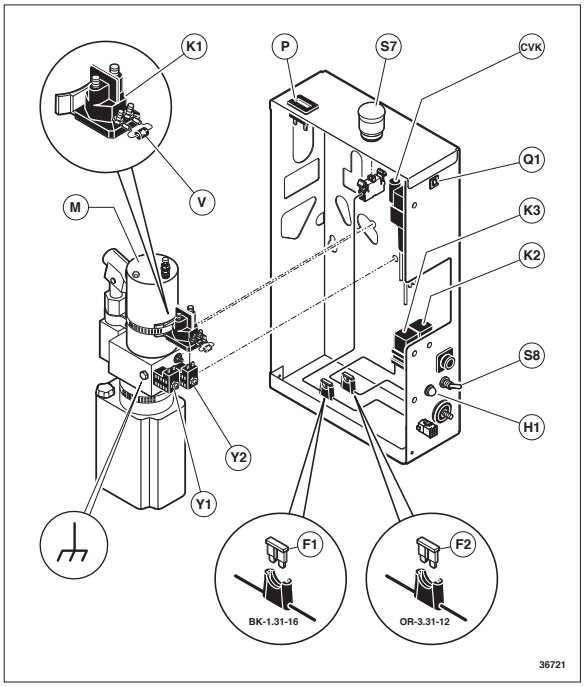
37610
Decal, Logo, Side Plate, 2.5" Tall, Autoadapt
(64 mm x 260 mm - 10.75" x 2.5")

Decals and Antiskid



36950
Decal, Electrical Components,
Lift, Rear, CE, 26 FTG, Intl, Public
(152 mm x 184 mm - 6" x 7.25")

37589
Decal, Warn, Hydraulic
Press Adj, Intl, CE
(50 mm x 53 mm - 1.96" x 2.08")



36721
Decal, Electrical Components,
Module, Rear, CE, VL & CL, Public
(127 mm x 149 mm - 5" x 5.875")

THE BRAUN CORPORATION®

EC Declaration of Conformity With Council Directive 2006/42/EC CE	
Date of Issue:	4 January 2012
Directive:	Machinery Directive on machinery safety, 2006/42/EC
Conforming Machinery:	Dual Parallel Arm Hydraulic Lift System Century -2, Millennium -2, Vista -2, GL Series 04 and newer, GCL and GVL Series 05 and newer Lifts
Manufacturer:	Braun Corporation 631 West 11th Street Winamac, IN 46996 USA
Authorized Representative:	Braun Corporation Authorized Representative AUTOADAPT AB Åkerivägen 7 S-443 61 Stenkullen SWEDEN Telephone: +46 (0) 302 254 00 E-mail: contact@autoadapt.se AUTOADAPT UK LTD Unit 1, Windsor Industrial Estate, Rupert Street Aston, Birmingham B7 4PR, UK Phone: +44 (0) 121 33 35 170 E-mail: contact@autoadapt.co.uk
Harmonized Standards Referenced or Applied:	BS EN 13857:2008, BS EN ISO 13850:2008, EN ISO 14121-1:2007, BS EN 349:1993+A1:2008, BS EN 953:1997+A1:2009, BS EN 1037:1995+A1:2008, BS EN 982:1996+A1:2008, BS EN 614-1:2006+A1:2009, EN 60204-1:2006, BS EN 1756-2:2004+A1:2009
Specifications with which Conformity is Declared:	Essential Health and Safety Requirements of Annex 1 of the Machinery Directive
We hereby certify that the machinery described above conforms with the essential health and safety requirements of Council Directive 2006/42/EC on the approximation of the laws of the Member States relating to the safety of machinery.	
Technical File Reference Number	SF10933A1.BC

Notes on Declared Standards referenced in the Declaration.

BS EN 13857:2008	Safety of machinery. Safety distances to prevent hazard zones being reached by upper and lower limbs.
BS EN ISO 13850:2008	Safety of machinery - Emergency stop - Principles for design.
EN ISO 14121-1:2007	Safety of machinery - Risk assessment - Part 1: Principles.
BS EN 349:1993+A1:2008	Safety of machinery. Minimum gaps to avoid crushing of parts of the human body.
BS EN 953:1997+A1:2009	Safety of machinery. Guards. General requirements for the design and construction of fixed and moveable parts.
BS EN 1037:1995+A1:2008	Safety of machinery. Prevention of unexpected start-up.
BS EN 982:1996+A1:2008	Safety of machinery. Safety requirements for fluid power systems and their components. Hydraulics.
BS EN 614-1:2006+A1:2009	Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles.
EN 60204-1:2006	Safety of machinery. Electrical equipment of machines. General requirements.
BS EN 1756-2:2004+A1:2009	Tail Lifts-Platform lifts for mounting on wheeled vehicles-Safety Requirements-Part 2: Tail lifts for passengers.

Declaration of Noise Emission

The Braun Corporation Vista -2 International Series System Sound Pressure Levels per EN ISO 11202 as based on testing on similar models are as follows:

	Operating	Idle
L_{pAm} (Operator Position)	75 dB (A)	68 dB (A)
L_{pAm} (Bystander Position)	73 dB (A)	69 dB (A)

Ambient Correction Factor K3A calculated according to EN ISO 11204 Appendix A. 4 dB (A)

Measurements were made at a height of 1.5 m and 1 m from the Operator Position and Bystander positions.

The difference between the extraneous noise level and the sound intensity level at each measuring point is: $L_{pAm}\ \Delta$ = 6 dB (A)

The figures quoted are emission levels and are not necessarily safe working levels. While there is a correlation between the emission and exposure levels this cannot be used reliably to determine whether or not further precautions are required.

Factors that influence the actual level of exposure of the workforce include characteristics of the work room, the other sources of noise, etc. such as the number of machines and other adjacent processes. Also, the permissible level of exposure can vary from country to country.

This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

Braun Corporation
631 W. 11th Street
Winamac, IN 46996
USA

CE

THE BRAUN CORPORATION®

Declaration of Conformity With Directive 2004/108/EC	CE
Date of Issue:	4 January 2012
Directive:	Radio Interference of Vehicles 2004/108/EC
Conforming Machinery:	Dual Parallel Arm Hydraulic Lift System Century -2, Millennium -2, Vista -2, VL998, GL Series 04 and newer, GCL and GVL Series 05 and newer Lifts
Manufacturer:	Braun Corporation 631 West 11th Street Winamac, IN 46996 USA
Authorized Representative:	Braun Corporation Authorized Representative AUTOADAPT AB Åkerivägen 7 S-443 61 Stenkullen SWEDEN Telephone: +46 (0) 302 254 00 E-mail: contact@autoadapt.se AUTOADAPT UK LTD Unit 1, Windsor Industrial Estate, Rupert Street Aston, Birmingham B7 4PR, UK Phone: +44 (0) 121 33 35 170 E-mail: contact@autoadapt.co.uk
Harmonized Standards Referenced or Applied:	EN50498:2010
We hereby certify that the machinery described above conforms with Directive 2004/108/EC	
Technical File Reference Number	SF10933A1.BC

NOTES

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Service Manual

International

Vista 2

Split Platform

Public Use

Wheelchair Lifts

Series AB

26" FTG

Braun Limited Warranty

Consult your local Braun dealer regarding warranty policy.

www.braunability.com/international

Patent #5,261,779
Patent #6,238,169
Patent #6,464,447
Patent #6,599,079
Patent #6,692,217
Patent #7,306,422
Patent #7,422,408

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www.braunability.com/international ISO 9001:2008

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37839
December
2012