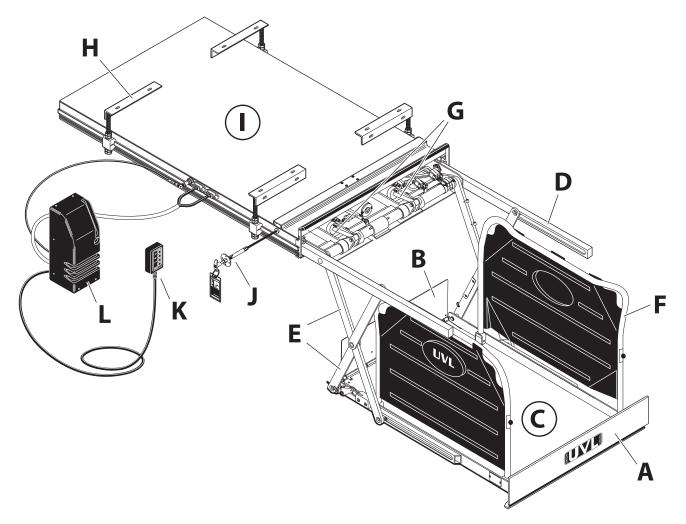


UVL855R UVL Series[™]

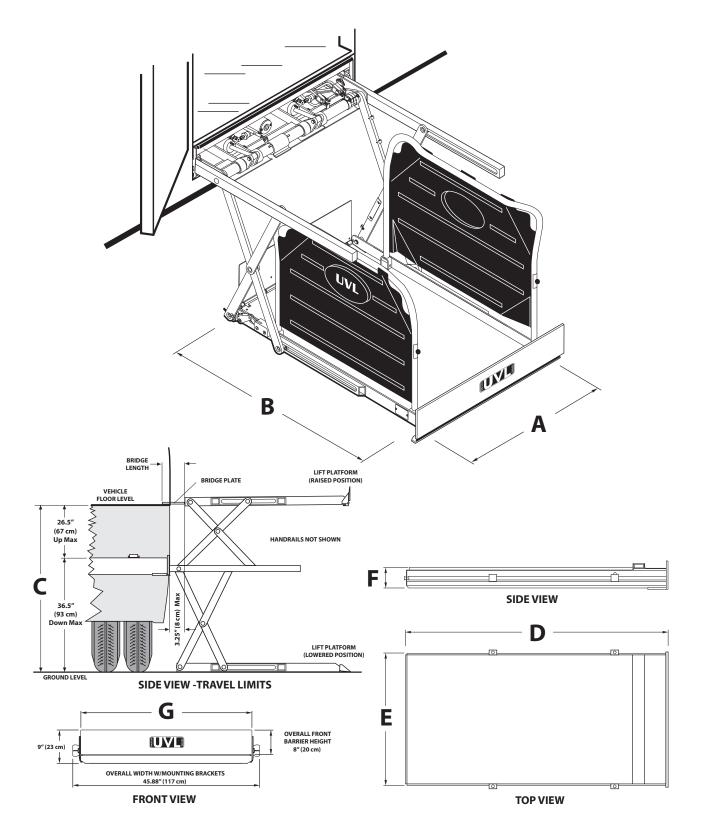


A - Automatic Outboard Barrier	G - Hydraulic Cylinder (2)
B - Inboard Barrier	H - Lift Mounting Brackets (6)
C - Platform	I - Lift Housing (Cassette)
D - Rolling Horizontal Arms (2)	J - Platform Cable-Activated Manual Release
E - Lifting Arms (4)	K - Hand-Held Conrol Box
F - Handrail (2)	L - Pump Module

UVL855R UVL Series[™] Specifications

General Function: Electrohydraulic, power up/gravity down operation, power in/out Operation: Hydraulic pump with two lifting cylinders Control: hand-held control Hydraulic: Pressure Max. 3,249 psi (224 bar), Fluid is Hydraulic/HFA Aviation, Oil reservoir is .25 gal (.95 L) Construction: Aluminum Housing with Steel inner structure with powder coat finish Lift Weight: 580 lbs (263 kg) Lifting Capacity: 750 lbs (340 kg) Operating Temperature: 19°F to 149°F (-7°C to 65°C) Power Supply: 12V DC (optional 24V DC) Current Consumption: Max. 120A (12V) - Max. 60A (24V)

UVL855R UVL Series[™] Dimensions



All dimensions are for reference only.

UVL855R UVL Serie	es		Α	В	С	D	E	F	G
Lift Model Number	User Oper	Attdt. ation	Clear Platform Width	Clear Platform Length	Max. Floor to Ground	Cassette Length	Cassette Width	Cassette Height	Min. Clear Door Opening Width
UVL855R		Х	30"(76cm)	53″(135cm)	63"(160cm)	72.25″(184cm)	43.5″(110cm)	5"(13cm)	43.5″(110cm)

UVL855R UVL Series[™] Features



- fully automatic lift, operated by an attendant
- mounts in a dedicated door application out of sight and out of the way, providing more flexibility in floor plan design
- aluminum housing is fully enclosed to be weather tight
- features a power pack remotely-mounted hydraulic pump with power up/ gravity down operation
- handheld 4-button pendant control operates all lift functions
- slip-resistant platform
- automatic outboard barrier engages before platform leaves ground
- mechanical inboard barrier / bridge plate
- lift will not stow with weight on the platform
- manual back-up system as standard feature
- rattle-free environment inside, providing a pleasant quiet ride
- diagnostic system for easy troubleshooting
- bearings are sealed or self-lubricating
- all functions operate from a digital logic board located inside the power pack
- durable high-gloss powder coated finish



www.braunmobility.com/international /SO 9001:2000

631 West 11th Street, Winamac, IN 46996, USA Phone: +1 574 946 6153 Fax: +1 574 946 4670





Under-Vehicle Lift®





Read manual before installing or servicing lift. Failure to do so may result in serious bodily injury and/or property damage.

Manual

35188 Rev. B August 2012

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 UVL 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. Geroun

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 protected in a clear envelope and attached to the lift protective shipping wrap. The sales representative must process one of the cards. The consumer must fill out the other card and mail it to The Braun Corporation. A detailed warranty section is provided in this manual. The warranty cards must be processed to activate the warranty.

Мо	del No.	Serial No.	
	01	VNER'S WARRANTY REGISTRATION	N
	*****	xx-xxxxx	
	PURCHASED FROM		
		OWNER	
	NAME		DATE INSTALLED
	ADDRESS		
	CITY		
	TELEPHONE	STATE	ZIP
	REGISTRATION C	TO VALIDATE WARRANTY ARDS MUST BE RETURNED TO THE BRAUN	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 left platform side plate (outboard end). A second I.D. tag is located inside of the pump module. 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	>	Serial No.
MFG DATE	▶	Date of Manufacture
CE		

Contents

Troubleshooting and Maintenance

Lift Terminology	2
Switch and Sensor Locations	3
Certification Checklist Diagnostic Procedures .	4
Adjustments and Calibration	5
LCD Diagnostic Codes	6
Floor Level and Inner Roll Stop Adjustments	
Lubrication Diagram	12
Maintenance and Lubrication Schedule	13-15
Troubleshooting Diagnosis Chart	16-18
Lift Wiring Schematic	19A, 20A
Contact Removal	19B

Hydraulics

Hydraulics Parts List2	0B
Hydraulics Diagram	21

Repair Parts

Pump Module

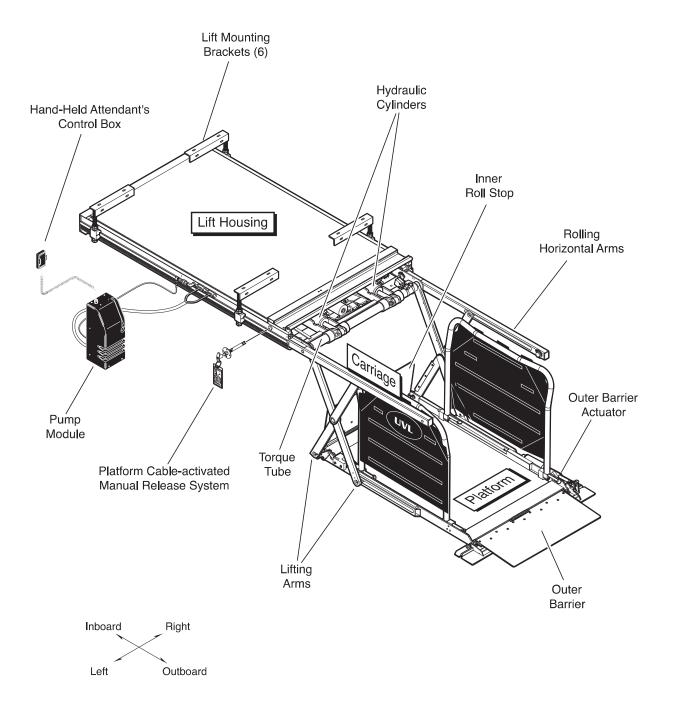
Pump Module Parts List2	22
Pump Module Diagram23A, 24	A

Lift Exploded Views

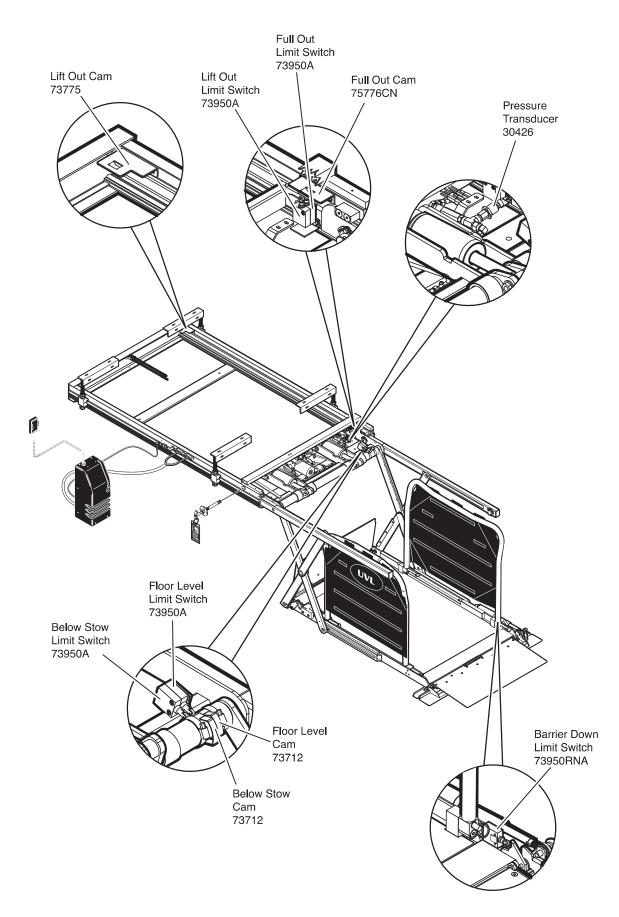
Complete Lift	23B, 24B
Repair Parts List	
Housing Detail	
Carriage Detail	
Platform Detail	

Warranty

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 lift stowed signal (pin 7) in the 9 conductor plug on the side of the pump module has a +12 volt signal.
 - 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) in the 9 conductor plug on the side of the pump module has a +12 volt signal.
 - 2. Refer to the interlock installation instructions.
- · The platform will not fold/stow when occupied.
 - Refer to Platform Sense Calibration.
- The inner roll stop will not raise if occupied.
 - Refer to Inner Roll Stop Occupied Sensor Adjustment
- The outer barrier will not raise if occupied.
 - Refer to Outer Barrier Occupied Calibration procedure
- Verify platform lighting when lift is deployed and pendant illumination when lift is powered.
 - 1. Replace bulb(s) in the light housing.
 - 2. Check inline fuse on wires going out to lights.
- A visual and audible warning will activate if the threshold area is occupied when the platform is at least 1" below floor level.
 - 1. Make sure connectors to threshold mat are properly connected.
 - 2. 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).
 - Check Barrier Down limit switch, wires and connector.
 - Diagnostic LCD should display a value of "1" for OBAR SW when outer barrier is deployed (up).

Adjustments and Calibration

Adjustment Procedures

Lift Out Switch: The Lift Out Switch stops inward travel of the carriage/platform during Stow function (activated by the housing-mounted Lift Out Cam). Move cam in to increase inward travel. Move cam out to decrease inward travel.

Full Out Switch: The Full Out Switch stops outward travel of the carriage/platform during Deploy (Up/Down) functions (activated by the housing-mounted Full Out Cam). Move cam in to decrease outward travel. Move cam out to increase outward travel. Carriage rollers must be inside housing a minimum 1/2". The platform will not raise or lower until this switch is activated.

Floor Level Switch: See page 7 for procedures.

Inner Roll Stop Occupied Sensor: See page 11 for procedures.

Stow Switch: The Stow Switch controls the height of the carriage/platform before it moves inward during the Stow function (activated by the torque tubemounted Stow Cam). Rotate the cam in to decrease platform height. Rotate the cam out to increase platform height. Adjust cam so lifting arms are aligned. View the platform position in the housing.

Barrier Down Switch: This platform-mounted switch prohibits the platform from raising unless the outer barrier is in the full up position. The Up function is prohibited if the outer barrier detent pin is not fully engaged also.

Drive Chain Adjustment

In event the drive chain sags 13 mm (1/2") or more, adjust tension as detailed. Tighten to eliminate visible sag but do not overtighten.

- 1. Unlock and pull the manual release cable and lock in the released position.
- 2. Manually extend platform carriage 2/3 full out.
- 3. Remove adjustment bolt (tensioner) access cover.
- Use deep well socket (long key sleeve) to loosen outside jam nut. Tighten inside jam nut to eliminate visible chain sag but do not overtighten.
- 5. Lock jam nuts together. Unlock and push the manual cable in fully. Lock release cable. Move the platform in and out until platform chain release assembly engages chain.

Carriage Ride Height Adjustment

The carriage horizontal arms move (roll) in and out of the housing tracks on roller bearings. Following installation or extensive lift operation, clearance between horizontal arms and tracks may diminish. The eccentric shaft mounting plate allows height adjustment. Remove eccentric plate mounting screw. Using screwdriver or small rod, rotate the shaft clockwise to increase carriage height. Rotate the shaft counterclockwise to decrease carriage height. Reinstall mounting screw in nearest retainer hole. Adjust left and right side eccentric shafts (screw positions may vary from side to side). Adjust height such that horizontal arms do not contact top or bottom of tracks (align center).

Calibration Procedures

Platform Sense Calibration

- 1. Place 20 lbs. in the center of the platform.
- 2. Press UP button on the hand-held pendant to raise the platform a minimum of 3" above stow level.
- 3. Press and hold 50# CAL button on control board. While pressing the 50# CAL button, press and hold the STOW button on the hand-held pendant. The platform will lower to stow level, raise slightly, lower to stow level, and begin inward travel. Release the 50# CAL button when the platform begins moving inward. The platform sensing is now calibrated.
- 4. After calibration, the LCD screen should read "PF OCCUPIED" when 50 lbs., or more, are present on the platform. If 50 lbs. does not activate the "platform occupied" signal readout, recalibrate with less weight to lower the "occupied" setting or more weight to increase the "occupied" setting.

Ground Sense Calibration

- 1. Press hand-held pendant DOWN switch to lower platform fully to ground level.
- While continuing to press the pendant DOWN switch, press and then release the control board O_BAR/GROUND LVL button.
- 3. Release the pendant DOWN switch. Ground level sensing is now calibrated.
- After calibration, the outboard roll stop should not unfold (down) until the platform is fully on the ground.

Outer Barrier Occupied Calibration

- 1. Press hand-held pendant DOWN switch to lower platform fully to ground level.
- 2. Once outer barrier is fully unfolded (ramp position), release the pendant DOWN switch.
- Press and hold the control board O_BAR/ GROUND LVL button. While holding O_BAR/ GROUND LVL button, press hand-held pendant UP switch to raise the outer barrier. Be sure to release O_BAR/GROUND LVL button when outer barrier reaches approximately half full up (vertical) position.
- After calibration, the LCD screen should read "OUT-BAR OCCUPIED" whenever there is weight present on the outer barrier.

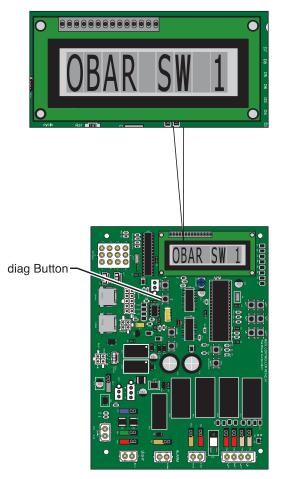
LCD Diagnostic Codes

To change the LCD display from cycle count to diagnostic mode, press the "diag" button on the control board (see illustration at right). When finished, press button again to return to cycle count mode. When all of the harnesses are correctly connected to the control board, the values shown in the chart below will display when the corresponding action is taken. "1" will appear to the right of the switch or sensor name on the LCD module when activated as shown. If any other value appears on the LCD screen during the specific diagnostic procedure, verify that the correct harness is properly connected to both the control board and the associated lift harness. Repeat the harness diagnostic procedure. If an incorrect value is still present after checking the harness and connections, contact The Braun Corporation Product Support Department.

All basic functions (UP, DOWN, STOW and DOOR) should show a value of 1 when activated via a controlled input (Hand-held Pendant, Magnetic, Remote Entry or 3rd Station Controls).



Hand-held Pendant



NUVL Control Board

LCD Display	Stowed	Moving Out Of Cassette	Moving Up From Stow	At Floor Level	Moving Down From Stow	Ground Level	Ground Level OB Out
✓STLV SW			1	1			
LOUT SW	1						
FOUT SW			1	1	1	1	1
FLV SW				1			
OBAR SW	1	1	1	1	1	1	
*GND LVL					1	1	
MAT SW	= 1	= 1 when mat is activated.					
IBAR SW	= 1	= 1 when inner roll stop is activated.					
DO SW	= 1 v	= 1 when door is full open or pin 3 and pin 4 are jumpered.					
*SBELT SW	= 1	when seat (ha	ndrail) belt is	latched.			

* (NUVL855RM24 only)

X (HRBELT SW for NUVL855RM24)

Floor Level and Inner Roll Stop Adjustments

Achieving proper floor level positioning of the platform and inner roll stop requires a combination of Floor Level switch adjustment and inner roll stop cam adjustment. Both are factory set, but floor level positioning must be inspected during installation procedures (will vary per vehicle application).

Floor Level Requirements: When the lift is positioned at floor level (raised fully), the bottom of the platform must be above floor level (threshold mat) and the inner roll stop must rest solidly on vehicle floor with 7° maximum angle (relative to the platform).

Ensure the lift is positioned and secured as specified on the Quick Reference Installation Sheet supplied with the lift.

Adjust the Floor Level switch first (detailed below). If the 7° requirement above is not met, adjust the inner roll stop cam as detailed in Cam Adjustment (adjust cam only if necessary).

ACAUTION

Do not adjust inner roll stop linkage rod. Linkage rod adjustment may result in lift damage.

Do not adjust the inner roll stop linkage rod (see Photo G on page 10). The linkage rod should be adjusted to increase usable platform length only (following all other procedures).

Floor Level Switch Adjustment

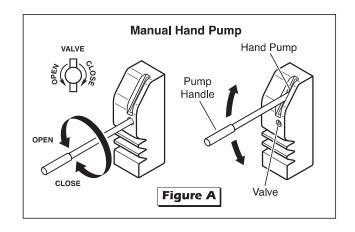
The Floor Level switch stops upward travel of the platform during the Up function (activated by the torque tube-mounted Floor Level cam).

- Position the bottom of the lift platform 1-1/2" above floor level (threshold mat) using the manual hand pump. See Figure A.
- 2. Loosen the clamp securing the torque tube-mounted Floor Level cam. See Photo A. Rotate the cam until the Floor Level switch is activated (cam depresses switch). Tighten the clamp securing the cam.

Hydraulic pressure may affect platform height slightly. Fine tuning adjustment (tweaking) of the Floor Level switch (cam) may be required.

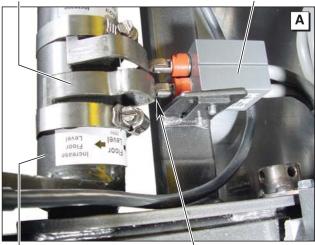
 Using the control pendant, check floor level position by lowering the platform to stow level and then pressing the UP button until the platform raises fully (stops).

If the inner roll stop rests solidly on vehicle floor with 7° maximum angle (relative to the platform), move to page 10 and check the usable platform length as outlined.



Floor Level Cam

Floor Level Switch



Torque Tube

Cam depressing switch.

Floor Level Switch Adjustment

- If the inner roll stop does not rest solidly on vehicle floor or the angle is more than 7°, open the hand pump valve (turn counterclockwise) to lower platform slightly (1/4" to 1/2"). Close valve. See Figure A.
- 5. Reset the floor level switch cam to this new position. See Photo A. Loosen the clamp securing the torque tube-mounted Floor Level cam. Rotate the torque tube-mounted Floor Level cam until the Floor Level switch is activated (cam depresses switch). Tighten the clamp securing the cam.
- 6. Using the control pendant, check floor level position by lowering the platform to stow level and then pressing the UP button until the platform raises fully (stops).

Floor Level Requirements: When the lift is positioned at floor level (raised fully), the bottom of the platform must be above floor level (threshold mat) and the inboard locator must rest solidly on vehicle floor with 7° maximum angle (relative to the platform).

If the inner roll stop rests solidly on vehicle floor with 7° maximum angle (relative to the platform), move to page 10 and check the usable platform length as outlined.

If the inner roll stop does not rest on the vehicle floor (hovers above floor) - adjust the cam as detailed in the following section.

Inner Roll Stop Cam Adjustment

Adjust the Floor Level switch first (detailed in previous section). If the above Floor Level Requirements are not met - adjust the inner roll stop cam as detailed in the following procedures.

Note: Adjustment of the inner roll stop cam affects the speed of inner roll stop deployment and torque tube/vehicle clearance.

- 1. Position the lift platform approximately 12" above stow level. See Photo B. Raising the platform will allow access to the cam securement screw and nut. See Photo C.
- Use an Allen wrench to prevent the cam locking screw from turning and loosen the 3/8" serrated flange nut securing the inner roll stop cam. See Photos C and D. Do not remove the screw or nut.
- 3. Using the control pendant, press the UP button until the platform raises fully (stops).
- 4. Turn the cam adjustment screw counterclockwise until the inner roll stop rests on the vehicle floor. See Photo D.



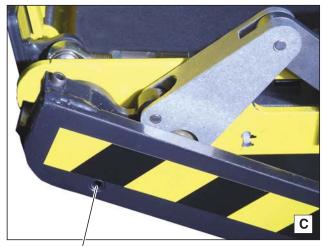
Inner Roll Stop Cam Adjustment

- Measure the angle of inner roll stop and verify the slope is a maximum of 7° (relative to the platform). If correct, tighten the 3/8" serrated flange nut and screw securing the cam. See Photos C and D. Move to page 10 and check the usable platform length as outlined.
- If the angle is more than 7°, open the hand pump valve (turn counterclockwise) to lower platform slightly (1/4" maximum). Close valve. See Figure A.
- Reset the floor level switch cam to this new position. Loosen the clamp securing the torque tube-mounted Floor Level cam. See Photo A. Rotate the torque tubemounted Floor Level cam until the Floor Level switch is activated (cam depresses switch). Tighten the clamp securing the cam.
- Using the control pendant, check floor level position by lowering the platform to stow level and then pressing the UP button until the platform raises fully (stops).
- If the inner roll stop rests solidly on the vehicle floor with 7° maximum angle (relative to platform), tighten the 3/8" serrated flange nut and screw securing the cam. See Photos C and D. Move to page 10 and check the usable platform length as outlined.

If the inner roll stop does not rest on the vehicle floor (hovers above floor), adjust the cam as detailed in Step 4.

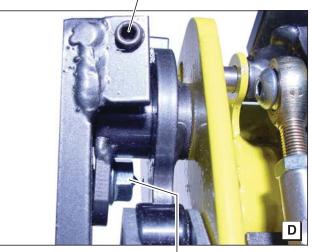
Note: It may be necessary to repeat Steps 6-9 to meet Floor Level Requirements (see page 8).

- Verify there is no gap between the inner roll stop and the roll stop catch. See Photo E. Turn the adjustment screw clockwise to bring the roll stop catch back in contact with the inner roll stop. Do not remove the gap by adjusting the linkage rod.
- 11. While holding the cam locking screw, tighten the 3/8" serrated flange nut securely.

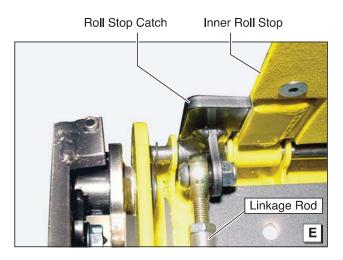


Cam Locking Screw

Cam Adjustment Screw



3/8" Serrated Flange Nut



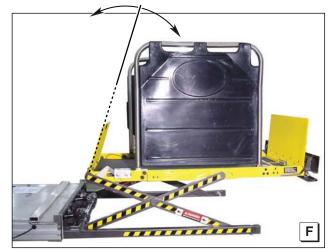
Usable Platform Length

ACAUTION

Improper inner roll stop linkage rod adjustment may result in lift damage. Do not adjust the inner roll stop linkage rod unless extra usable platform length is needed. See Photo F.

If the angle of the inner roll stop (when in the vertical position) restricts the usable platform length for the wheelchair passenger, adjustment of the linkage rod will change the angle.

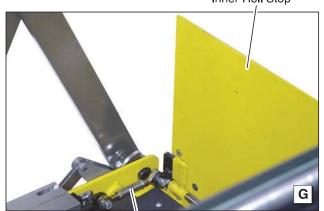
Adjust the inner roll stop as detailed in the previous procedures. Then, adjust the linkage rod as detailed (only if necessary). If the linkage rod is over adjusted (too long or too short), it will exceed the travel of the slider block resulting in damage to the cam follower bearing, the cam and/or other components. Linkage rod adjustment affects angle of inner roll stop (vertical position).

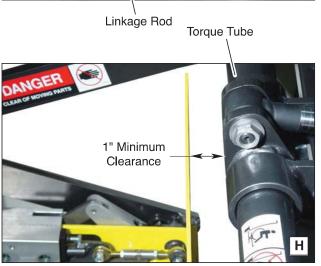


Inner Roll Stop

Linkage Rod Adjustment

- Position the lift platform below stow level using the manual hand pump (turn valve counterclockwise). Do not operate the lift with the electric pump during adjustment procedures.
- Loosen the jam nuts at each end of the linkage rod. Adjust rod length as needed. Minimize adjustment. Provide a minimum of 1" clearance between inner roll stop and torque tube (inner roll stop must clear cylinder mount). See Photo H.
- 3. Carefully check the inner roll stop angle and operation using the hand pump. Ensure the linkage rod has not been over adjusted resulting in pressure on components (damage will result).
- 4. Tighten the linkage rod jam nuts.





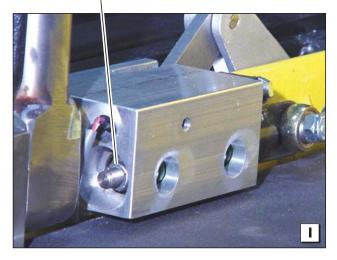
Inner Roll Stop Occupied Sensor Adjustment

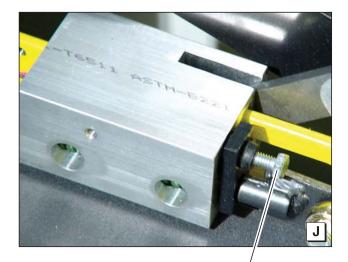
The optimum setting for the inner roll stop occupied sensor adjustment nut is to have just enough pressure to fold and unfold the inner roll stop without triggering the inner roll stop occupied sensor. This provides the most weight sensitive setting while allowing the unoccupied inner roll stop to function correctly.

The inner roll stop sensor activates an audible/visual alarm and stops lift motion if the inner roll stop is occupied (weight or pressure on roll stop). Do not adjust the inner roll stop occupied sensor unless lift does not function properly.

- 1. If the weight of the empty inner roll stop is triggering the sensor while it is folding, tighten the sensor nut 1/8 turn and cycle the lift several times to verify correct operation. See Photo I.
- If the lift is not reacting to weight (pressure) on the inner roll stop soon enough, loosen the pressure adjusting nut 1/8 turn and cycle the lift several times to verify correct operation.
- 3. If the inner roll stop occupied alarm continues to go off even when the inner roll stop is in the vertical position, turn the sensor activation bolt clockwise until alarm is not activated. See Photo J.

Adjustment Nut

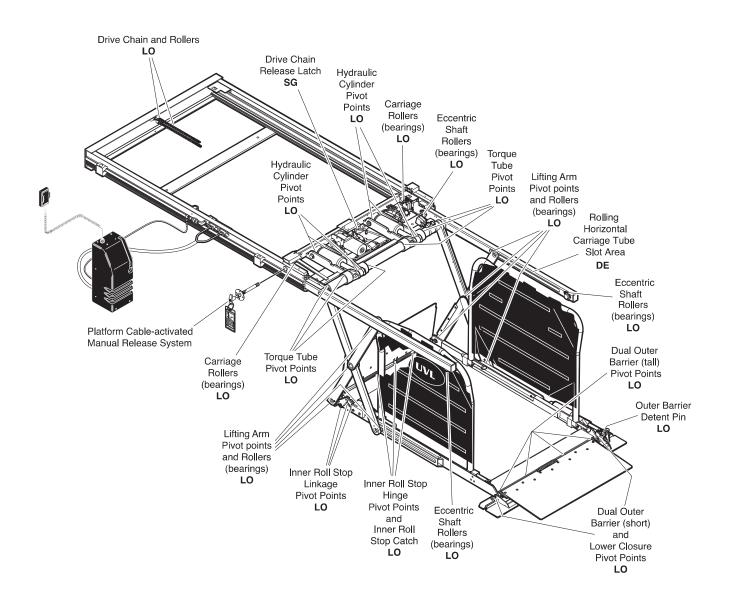




Sensor Activation Bolt

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 - Synthetic Greas	Se Synthetic Grease (Multipurpose)	Mobiltemp SHC32	12.5 oz. Tube	28598

Maintenance and Lubrication Schedule

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

The maintenance and lubrication procedures specified in the following schedule must be performed by a Braun authorized service representative at the scheduled intervals according to the number of cycles. NUVL Series lifts are equipped with a cycle counter (digital display built into the electronic control board).

NUVL Series lifts are equipped with hardened pins and self-lubricating bushings to decrease wear, provide smooth operation and extend the service life of the lift.

When servicing the lift at the recommended intervals, inspection and lubrication procedures specified in the previous sections should be repeated. Clean components and the surrounding area before applying lubricants. LPS2 General Purpose Penetrating Oil is recommended where Light Oil is called out. Use of improper lubricants can attract dirt or other contaminants which could result in wear or damage to the components. Platform components exposed to contaminants when lowered to the ground may require extra attention. Lift components requiring grease are lubricated during assembly procedures. When replacing these components, be sure to apply grease 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 guideline for scheduling maintenance procedures and will vary according to lift use and conditions. Lifts exposed to severe conditions (weather, environment, contamination, heavy usage, etc.) may require inspection and maintenance procedures to be performed more often than specified.

Maintenance and lubrication procedures must be performed as specified by an authorized service technician. Failure to do so may result in <u>serious bodily injury</u> and/or property damage.

Maintenance Indicator: The Lift Ready green LED mounted on top of the pump cover will change color to yellow after every 750 cycles. The yellow LED will not affect the functions of the lift, but is a reminder to complete necessary maintenance and lubrication.

Once the lift has been serviced, press the CYCLE button (located below LCD display on the control board) until the Lift Ready LED changes back to green. The CYCLE button also clears the lift cycle count (since last service) but not the lifetime cycle count.

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 and lower closure pivot points (2)	Apply Light Oil - See Lubrication Diagram	
	Outer barrier detent pin pivot points (2)	Apply Light Oil - See Lubrication Diagram	
	Inner roll stop hinge pivot points	Apply Light Oil - See Lubrication Diagram	
	Inner roll stop linkage pivot points	Apply Light Oil - See Lubrication Diagram	
750	Lifting arm pivot points and rollers (bear- ings)	Apply Light Oil - See Lubrication Diagram	
Cycles	Inspect outer barrier and lower closure for proper operation	Correct or replace damaged parts.	
	Inspect outer barrier seal and lower closure gasket	Resecure, replace or correct as needed	
	Inspect outer barrier detent pin hairpin cotter	Ensure hairpin cotter is present and can be removed and inserted easily. Resecure, replace or correct as needed.	
	Inspect lift for wear, damage or any abnormal condition	Correct as needed.	

Maintenance and Lubrication Schedule

r		
	Inspect lift for rattles Check drive chain tension.	Correct as needed. Pull out and lock manual release cable. Adjust chain tension as needed. See Drive Chain Adjustment.
	Inspect inner roll stop and linkage for: • Proper operation • Positive securement • Wear or damage • Proper adjustment	Resecure, replace or correct as needed. See Floor Level and Inner Roll Stop Adjustment Instructions.
750	Check carriage ride height in housing	Adjust as needed. See Carriage Ride Height Adjustment.
Cycles	Check stow height/lifting arm alignment	Lifting arms should be horizontal, aligned with each other and aligned with carriage. Adjust as needed. See Switch Adjustment (Stow Switch).
	Inspect wiring harnesses for securement, wear or other damage	Resecure, replace or correct as needed
	Check lower pan securement	Resecure, replace damaged parts or correct as needed.
	Torque tube pivot bearings (4 places)	Apply Light Oil - See Lubrication Diagram
	Verify FMVSS 403/404 Certification Checklist	See FMVSS 403/404 Certification Checklist

	Carriage rollers (bearings)	Apply Light Oil - See Lubrication Diagram
	Eccentric shaft rollers (bearings)	Apply Light Oil - See Lubrication Diagram
	Lifting arm slots in rolling horizontal carriage arm tubes	Apply Door-Ease - See Lubrication Diagram. Apply to the surface area around both slots and wipe off excess.
	Hydraulic cylinder pivot points (4 per cylinder)	Apply Light Oil - See Lubrication Diagram
	Drive chain and chain rollers	Apply Light Oil - See Lubrication Diagram
	Drive chain release latch mechanism	Apply Synthetic Grease - See Lubrication Diagram
1500 Cycles	Deploy lift, remove inboard and outboard lower pans and blow out housing. Blow off platform also.	Use compressor and nozzle to remove all debris from housing. Clean outboard lower pan slot and apply Antisieze to slot before reinstalling pan.
	Deploy lift, remove inboard and outboard lower pans and clean housing tracks	Use clean cloth and solvent to clean tracks. Clean outboard lower pan slot and apply Anti- sieze to slot before reinstalling pan.
	Check drive chain tensioner, jam nuts and con necting link for securement and/or misalignment.	Correct or replace damaged parts and/or relubri- cate. See Drive Chain Adjustment.
	Inspect drive chain release latch mechanism for proper operation, positive securement, wear or other damage	Correct or replace damaged parts and/or relu- bricate.

Maintenance and Lubrication Schedule

	Inspect platform cable-activated manual release system (T-handle/cable assembly and carriage movement) Inspect limit switches and cams for securement	Ensure T-handle release and cable assembly op- erate properly. Ensure carriage can be manually extended and retracted freely. Resecure, replace or adjust as needed. See
	and proper adjustment	Adjustments and Calibration.
	Inspect carriage, lifting arm and eccentric shaft rollers (bearings) for wear or damage, positive securement and proper operation	Correct, replace damaged parts and/or relubricate.
	Inspect external snap rings (e-clips): • Carriage roller bearings (4) • Lower lifting arm pins (4) • Eccentric shaft track roller bearing (1)	Resecure, replace or correct as needed.
1500 Cycles	Inspect lower lifting arm pins for wear or damage, positive securement and proper adjustment	Resecure, replace damaged parts, lubricate or correct as needed.
	Inspect eccentric shaft pins, bearing mounting screw, washers and securement hardware for wear or damage, positive securement and proper operation	Resecure, replace damaged parts, lubricate or correct as needed. See Carriage Ride Height Adjustment.
	Inspect torque tube cams for securement, wear or damage	Resecure, replace or correct as needed.
	Inspect housing cam brackets for securement, wear or damage	Resecure, replace or correct as needed.
	Inspect cylinder(s), hoses, fittings and hydraulic connections for wear, damage or leaks	Tighten, repair or replace if needed.
	Inspect power cable	Resecure, repair or replace if needed.

	-	
	Hydraulic Fluid (Pump) - Check level. Note: Fluid should be changed if there is visible contamina- tion. Inspect the hydraulic system (cylinder, hoses, fittings, seals, etc.) for leaks if fluid level is low.	Use Braun 87010R (5606 aviation fluid). 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 7/8" from the bot- tom of fill tube to locate fluid level.
4500 Cycles	Inspect lifting arm bushings and pivot pins for vis- ible wear or damage	Replace if needed.
cycles	Inspect outer barrier pivot pin mounting bolts (2)	Tighten 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. Re- place antiskid if worn or missing.

Consecutive	Repeat all previously listed inspection, lubrica-
Intervals	intervals.

Troubleshooting Diagnosis Chart

AWARNING

Troubleshooting and repair procedures must be performed as specified by authorized service personnel only. Failure to do so may result in <u>serious bodily</u> injury and/or property damage.

EUNICTION

If a problem occurs with your lift, discontinue operation immediately! Do not attempt repairs yourself. Contact your dealer or call The Braun Corporation. One of our national Product Support representatives will direct you to an authorized service repairman who will inspect your lift.

The cause of the problem can be determined by locating the lift function and related symptom in the Troubleshooting Diagnosis

POSSIBLE CALLSE

Charts. The specific cause and remedy can then be determined by process of elimination. A Wiring Diagram, Electrical Schematic, Hydraulic Diagram and Hydraulic Schematic are provided to aid in troubleshooting.

A Repair Parts section with exploded views and corresponding parts lists is also provided. Correct the problem if possible. If the problem continues, contact The Braun Corporation.

DEMEDV

FUNCTION	POSSIBLE CAUSE	KEWIEDY
	1.11 Low battery 1.12 Bad ground	Check vehicle battery Check for good ground between vehicle chassis and 3/8" bolt on back of power pack.
1.00 NO	1.13 Poor plug connections	Check all plugs for proper contact.
OPERATION	1.14 Blown fuse	Check fuses on P.C. board.
	1.15 Circuit Sentry	Manually reset Circuit Sentry (circuit breaker).
	1.16 Bad circuit breaker	Check self reset circuit breaker next to P.C. board
	1.17 Defective Interlock	Check for voltage on gray wire with red stripes in interlock plug connected to P.C. board.

2.00	2.11 Hydraulic valve open	Flush valve by operating manual override switches up and down at same time for 4 to 5 seconds several times.
PUMP RUNS BUT WILL	2.12 Pump mounted horizontal	Power pack must be mounted vertically.
NOT LIFT PLATFORM	2.13 No oil (low)	Use Braun 87010R (5606 aviation fluid). 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 (speci- fied on decal). Do not overfill. If fluid level decal is not present - measure 7/8" from the bottom of fill tube to locate fluid level.

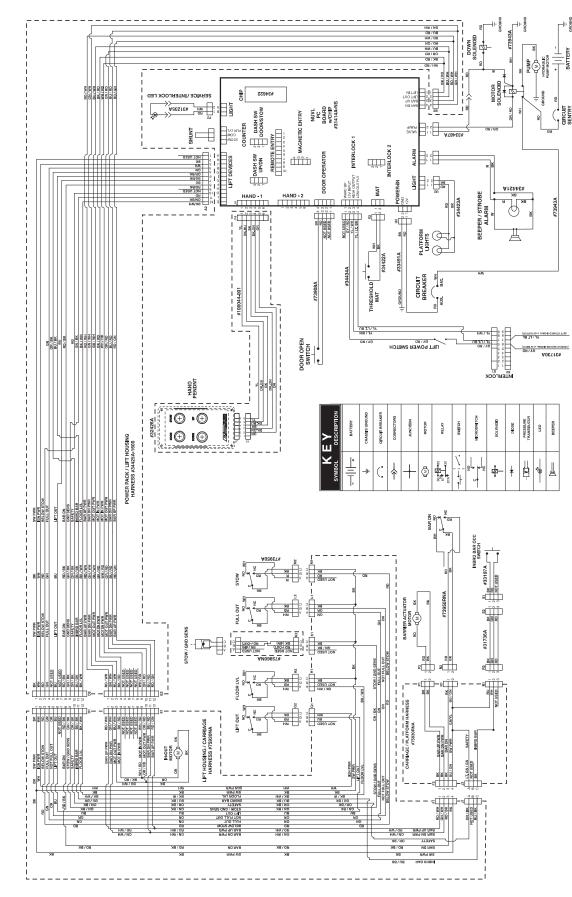
3.00 PUMP DOES NOT RUN WITH MAN- UAL OVER- RIDE OR HAND-HELD	3.11 Up Solenoid 3.12 Bad power and ground	Check for power on black wire going from solenoid to motor. See 1.00
HAND-HELD PENDANT		

Troubleshooting Diagnosis Chart

FUNCTION	POSSIBLE CAUSE	REMEDY
4.00 LIFT WILL GO UP WITH	4.11 Outer Barrier switch is not activated or defective.	Check diagnostic LCD for Outer Barrier switch sta- tus. Barrier is down or barrier release pin partially out. See Outer Barrier Occupied Calibration on page 5. Replace switch as necessary.
OVERRIDE SWITCH BUT NOT WITH HAND-HELD	4.12 Full Out switch is not acti- vated or defective.	Check diagnostic LCD for Full Out switch status. Adjust or replace switch as necessary.
PENDANT	4.13 Hand-held pendant not work- ing properly.	Check for hand-held pendant illumination and continuity of the switches. Verify Door Open switch is functioning correctly.
5.00 LIFT WILL NOT GO DOWN WITH	5.11 Hydraulic down valve bad	Check for power on red wire from P.C. board to Down solenoid when pushing override button or hand-held pendant button. Replace if necessary.
MANUAL OVERRIDE OR WITH HAND-HELD PENDANT OR GOES DOWN SLOWLY OR DRIFTS DOWN BY ITSELF	5.12 Dirty down valve (clogged)	Flush valve by operating Up & Down manual override buttons at same time for 4 to 5 seconds several times.
6.00 LIFT WILL GO	6.11 Full Out switch out of adjust-	Check diagnostic LCD for Full Out switch status.
DOWN WITH OVERRIDE BUT NOT WITH HAND-HELD PENDANT	ment or defective. 6.12 Door Full Close switch out of adjustment or defective.	Adjust or replace switch as necessary. Check switch for proper operation/adjustment. Adjust or replace switch as necessary.
7.00 LIFT WILL NOT GO OUT WITH	7.11 Missing shunt	Verify shunt (jumper) is located in the Door Opera- tor 4-conductor jack (jumper pins 3 & 4) on the control board when door operators are not used.
HAND-HELD PENDANT	7.12 Door Open switch out of adjust- ment or defective	Check switch for proper operation/adjustment. Adjust or replace switch as necessary.
8.00	8.11 Poor plug connections	Check harness connections A1, A2, B1 and B2
LIFT WILL NOT GO OUT WITH OVERRIDE OR	8.12 Bad in/out motor	Check power at motor. Replace motor if necessary.
HAND-HELD PENDANT	8.13 Bad power and ground	See 1.00
9.00 LIFT WILL NOT STOW WITH	9.11 Stow switch out of adjustment or defective.	Check diagnostic LCD for Stow switch status. Adjust or replace as necessary.
HAND-HELD PENDANT	9.12 Platform is occupied or out of calibration.	Remove weight from platform. See Platform Sense Calibration on page 5.

Troubleshooting Diagnosis Chart

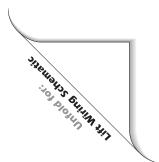
FUNCTION	POSSIBLE CAUSE	REMEDY
10.00 BARRIER WILL	10.11 Poor plug connections	Check harness connectors A1 and A2, E1, N1, N2, E1, F1 and F2.
NOT OPERATE UP OR DOWN WITH HAND- HELD PENDANT	10.12 Faulty barrier actuator motor or actuator out of adjustment	Check power at motor. Adjust or replace actuator if necessary.
OR OVERRIDE SWITCHES	10.13 Bad power and ground	See 1.00
11.00		
BARRIER OPERATES WITH OVERRIDE SWITCH BUT	11.11 Faulty Outer Barrier switch	Check diagnostic LCD for Outer Barrier Switch status. Adjust or replace switch as necessary.
WILL NOT GO UP WITH HAND- HELD PENDANT	11.12 Barrier occupied	Remove weight from barrier. See Outer Barrier Occupied Calibration on page 5.
12.00 BARRIER OPERATES	12.11 Faulty Pressure Transducer	Check Pressure Transducer. Adjust or replace as necessary. See Ground Sense Calibration on page 5.
WITH OVER- RIDE SWITCH BUT WILL NOT GO DOWN WITH	12.12 Stow switch out of adjust- ment or defective	Check diagnostic LCD for Stow switch status. Adjust or replace as necessary.
HAND-HELD PENDANT	12.13 Full Out switch out of adjustment or defective	Check diagnostic LCD for Full Out switch status. Adjust or replace as needed.
13.00	10.11. No nouver point to puitshop	
SWITCHES DO NOT	13.11 No power going to switches 13.12 Faulty wiring	Check power on connector A1, pins 1 and 2. Check continuity of wires from switches to connector
CHANGE STATE IN	13.12 Faulty winny	A2.
DIAGNOSTIC MODE	13.13 Faulty connections	Check for proper connections on each switch and on each connector on the harnesses. Replace con- tact if necessary. See diagram on following page.
14.00 DOORS DO NOT OPEN	14.11 Faulty wiring	Check for proper wiring to door openers.
15.00 DOORS DO NOT CLOSE	15.11 Lift Out switch out of adjustment or defective	Lift not stowed fully. Adjust lift out switch or replace.



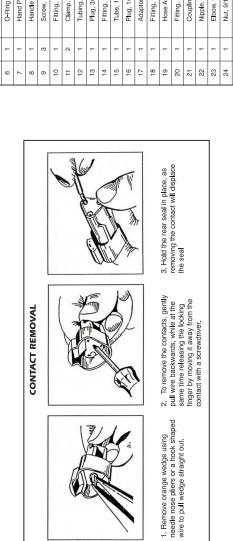
Wiring Schematic

Page 19A

Page 20A



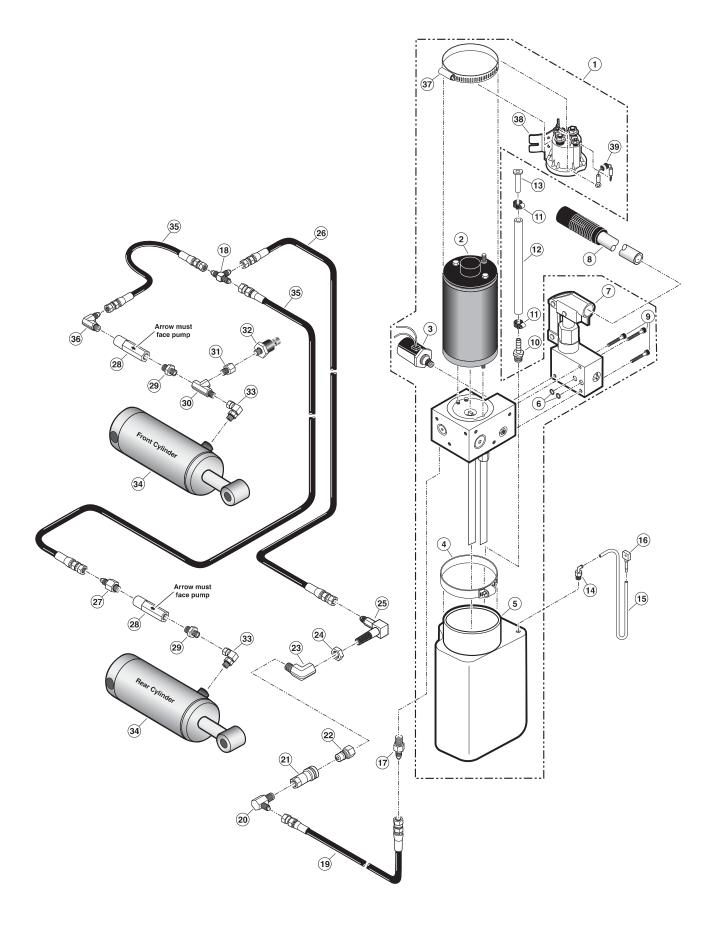
Hydraulic Parts List



⊢	Dumo Assambly (M950 with Besanvir)(with Beckaus aums)	87060
	ning resenting (weap wint reservoir wint back-up painp) Motor, Pump	14785-IS
	Valve, "Down" (with Solenoid)	14901
	Clamp, Reservoir - H-48	17069
	Reservoir Replacement Kit (Includes Item #10)	88188K
	O-Ring (only), Hand Pump Mounting	17351
	Hand Pump (Backup) with O-Rings (Includes Item #6)	87065
	Handle with Grip	17206A
	Screw, 1/4-20 x 1 3/4", Allen Head	17351
	Fitting, 3/8" Male NPT x 3/8" Barbed	87618
	Clamp, Hose - 5/8" O.D Worm Drive	84325
	Tubing, 3/8" x 5/8", Tygothane - Clear	82066R012
	Plug, 3/8" Plastic Hose	81580
	Fitting, 90°-1/8" Male Pipe x 1/8" Barbed	87563
I	Tube, 1/4" O.D. x 1/8" I.D Plastic	81557R014
	Plug, 1/8" Plastic Tube	81583
	Adapter, 1/4" Male NPT x 7/16-20 Male JIC 37°	10130
	Fitting, Tee, 7/16-20 Male JIC 37° x (3)	30793
	Hose Assembly, 1/4" - Female Swivel 7/16-20 JIC 37°	32785A-202
	Fitting, 90° - 7/16-20 Male JIC 37° x 1/4" Male NPT	87569
	Coupling, Hydraulic Quick Connect x 1/4" Female NPT	87614
	Nipple, Hydraulic Quick Connect x 1/4" Female NPT	87615
	Elbow, 90° - 1/4" NPT Street	10114
	Nut, 9/16-18, Hex Jam	83077
	Fitting Assembly, Bulk Head	73777A
	Hose Assembly, 3/16" - Female Swivel 7/16-20 JIC 37°	915-5603-080.5
	Fitting, 9/16" Male O-Ring x 7/16-20 Male JIC 37°	26787
	Valve, Flow Control	87053
	Fitting, Adaptor, 9/16" Male O-Ring x 1/4" Male NPT	31646
	Fitting, Tee - 1/4" Male NPT (1) x 1/4" Female NPT (2)	11340
	Adapter, 7/16-20 Female O-Ring to 1/4-18 Male NPT	29305
	Switch, Pressure Transducer	30426
	Fitting, 90° - 1/4" Female Swivel NPT x 7/16-20 Male JIC 37°	26789
	Cylinder, UVL Retracting	87055N
	Hose Assembly, 1/8" - Female Swivel 7/16-20 JIC 37°	16004A-020
	Fitting, 90°- 9/16" Male O-Ring x 7/16-20 JIC 37° Male	87622
	Clamp, Hose - Solenoid Mounting	29663
	Solenoid, Up - Trombetta	31129

Page 20B

Hydraulic Diagram

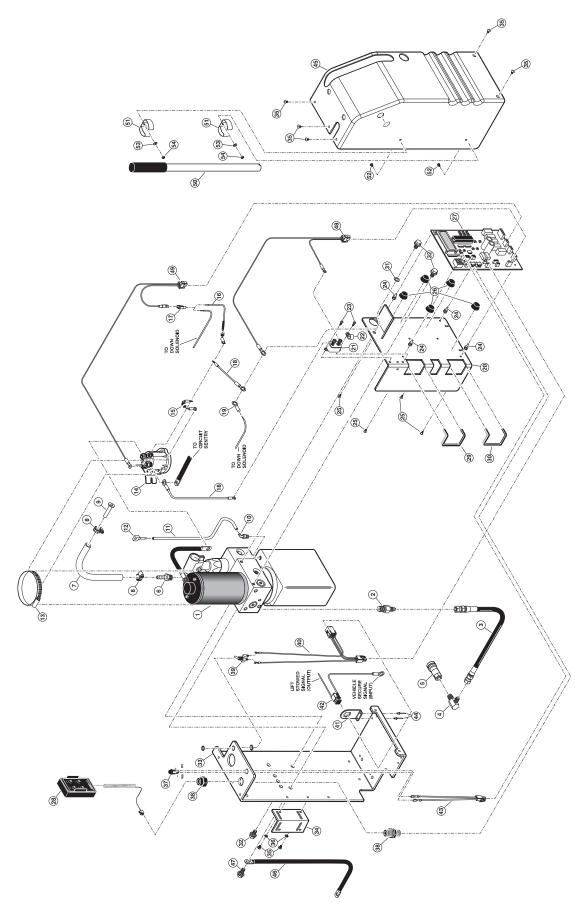


Pump Module Parts List

ltem	Qty.	Description	Part #
1	1	Pump Assembly, M259	87060
2	1	Adapter, 1/4" Male NPT x 7/16-20 Male JIC 37°	10130
3	1	Hose Assembly, 1/4"- F. Swivel 7/16-20 JIC 37°	32785A-202
4	1	Fitting, 90° - 7/16-20 Male JIC 37° x 1/4" Male NPT	87569
5	1	Coupling, Hydraulic Quick Connect x 1/4" Female NPT	87614
6	1	Fitting, 3/8" Male NPT x 3/8" Barbed	87618
7	1	Tubing, 3/8" x 5/8", Tygothane - Clear	82066R012
8	2	Clamp, Hose - 5/8" O.D Worm Drive	84325
9	1	Plug, 3/8" Plastic Tubing	81580
10	1	Fitting, 90°-1/8" Male Pipe x 1/8" Barbed	87563
11	1	Tube, 1/4" O.D. x 1/8" I.D Plastic	81557R014
12	1	Plug, 1/8" Plastic Tube	81583
13	1	Clamp, Hose	17069
14	1	Solenoid, Up - Trombetta	31129
15	1	Diode Assembly, Up Solenoid	73906A
16	1	Diode Assembly, Down Valve Solenoid	73907A
17	1	Terminal, 14/16 Gage Male Spade - 1/4" Fully Insulated	78036
18	2	Jumper Assembly, 12 Gage x 4"	73943A
19	1	Eyelet, 5/16" Insulated - Red	86267
20	1	Weldment, Bracket - PC Board Mounting	73824W
21	1	Circuit Breaker, 20 Amp - Self Reset	16453
22	1	Clip, Cable - 7/16" Plastic	15777
23	2	Screw, 10-32 x 3/8", Pan Head Philips, Thread Cutting	82755
24	4	Standoff, .25" PCB - Nylon	86739
25	4	Screw, #6 x 3/8". Self Tap, Flat Head	82764
26	5	Bumper, 1/2" Dia. x 1/4" Tall - Rubber	82064
27	1	Electrical Board Assembly w/Program Chip	31414A-NS
28	1	Hand Pendant Assembly, NHTSA NUVL X	32426A
29	1	Edge Liner, 1/8" x 6", Q-Trim	13910R006
30	1	Edge Liner, 1/8" x 4", Q-Trim	13910R004
31	1	Washer, .328" x .562" x .042"	83583
32	3	Screw, 5/16-18 x 1/2", Serrated Washer Head, Hex	82881
33	1	Plate, Power Pack Mounting	73822
34	1	Bracket, Power Pack Mounting X	73825
35	7	Screw, 1/4-20 x 3/8", Pan Head Phillips X	82769
36	2	Washer, Lock - 1/4" External Tooth X	83588
37	1	Lamp, Bicolored LED Panel	30728
38	1	Fitting, Strain Relief - Liquid Tight	30753
39	1	Switch, Toggle	12185
40	1	Harness, Interlock	34434A
41	1	Plate, Interlock Plug / Pump Cover Attachment	31345
42	1	Harness, Lift Interlock Connection	31730A
43	1	Harness, Service / Power Indicator	31730A 31235A
43		Rivet, Pop, 1/8" Dia, x ,188/,250"	84249
44	2	Cover, UVL Power Pack w/Decals X	
40	1		73820NA 68874
		Ground Cable, Black - 26"	
47	1	Screw, 5/16-18 x 3/4", Serrated Washer Head, Hex	32464
48	1	Harness, NUVL-2 to Power	33491A 33487A
49	1	Harness, NUVL-2 to Pump / Valve	
50	1	Handle, Back-up Pump X	170206A
51	2	Clamp, Spring - Pump Handle X	12350
52	2	Screw, #10-32 x 3/8", Flat Head - Phillips X	82767
53	2	Washer, #10 Flat X	11541
54	2	Nut, #10-32, Hex 🗶	11542

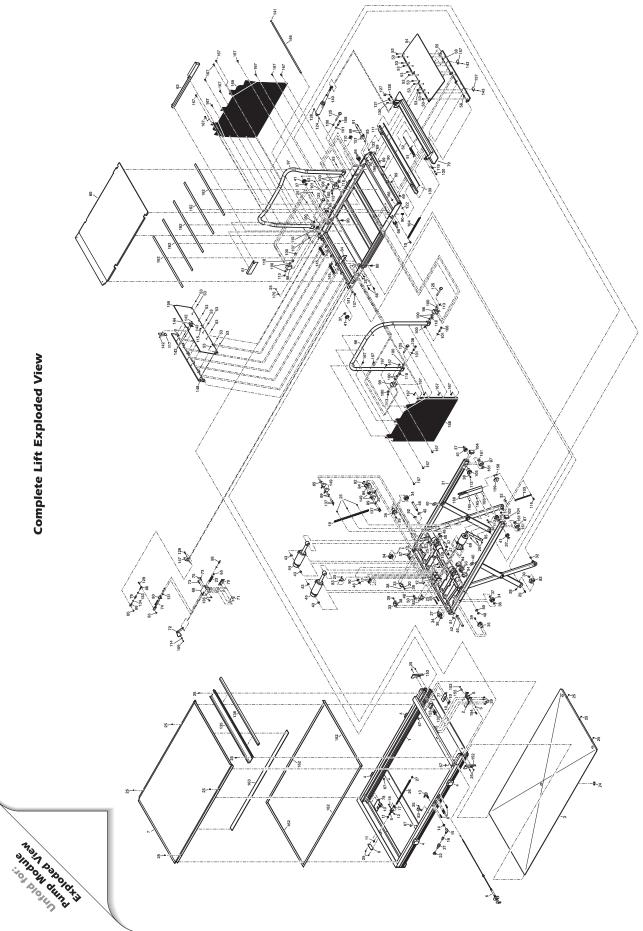
x Indicates items available for replacement part purposes only. These items are not included with replacement pump modules.

Pump Module Diagram



Page 23A

Page 24A

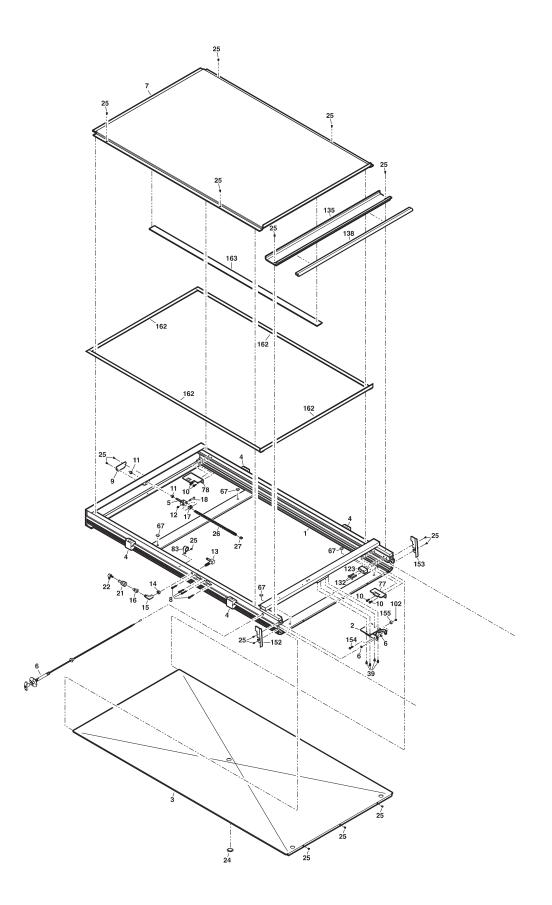


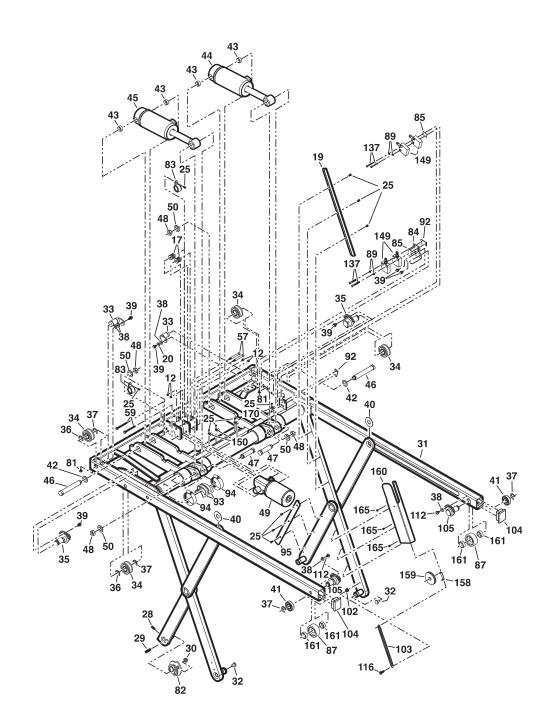
Page 24B

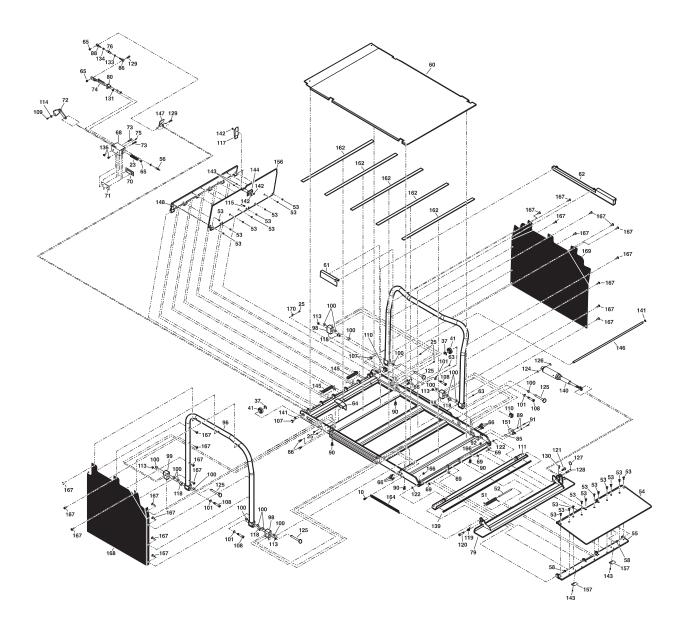
Page 23B

Repair Parts List

Nom Ory Description PartNo. 1 Hammang Madred 72018/W 2 Description 72024 2 A Corre, Loss 72024								
Jack Chara Relation Wethermet 221004 Bit A Count Class 3772 A Count Loss 77774400 6 6 9000000000000000000000000000000000000	Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.
3 Const. Lower 7278-2 4 Control. Movers 7278-2 5 A Control. Movers 7278-2 6 A Sectors. Linear 7278-2 7 Control. Sectors. Linear 7278-20 7278-20 8 Sectors. Linear 7278-20 7278-20 9 Sectors. Linear 7278-20 7278-20 9 Sectors. Linear 7278-20 7278-20 10 Sectors. Linear 7278-20 728 11 Sectors. Linear 7278-20 728 728 11 Sectors. Linear 728 728 728 728 728 728 728 728 728 728 728 728 728 728 728 72	1	1		75101RNW	87	2		75230A
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6 1 Manual Research Cale According to PUT201 99 9 Patter Solution Database 922714 9 1 Convert Chart Inscrete PUT201 Patter Solution Database 92274 93 Patter Solution Database 92274 93								
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6 4 Soren, Vic2y, 11 (2), Water Hed, Sel Dill 2011 1 0 Conce, Ulera Partone, Ulera Association, U		-						
0 1 Cover, Chain Tensoner 77764 0 6 Strand, Jacky LeV, Valenter Hand, Self Dill 24750 77764 10 6 Strand, Jacky LeV, Valenter Hand, Self Dill 24750 77764 11 6 Nuk, 14-20 Whotes, Full Size 247574 77774 11 6 Nuk, 14-20 Whotes, Full Size 247574 77774 12 6 Nuk, 14-20 Whotes, Full Size 24751 77774 13 6 Strand, Stra								
10 8 Boren, 16-20, AK, 24, 29 (above freed, above fr								
11 2 Nut. 1262 bits c. 141 2580								
13 1 Filing Assembly, Balt Head 7777A 14 1 New Johns, Mark Head 7777A 15 1 Cale Johns, Mark Head 7777A 16 1 Report, Mark Head 7777A 17 1 Filing Assembly, Balt Head 7777A 18 1 Court, Mark Head 7777A 19 1 Born, Mark Head 7777A 19 1 Born, Mark Head 7777A 10 1 Gene, Mark Head 7777A 10 1 Gene, Mark Head 7777A 10 1 Gene, Mark Head 7777A 10 1 Couples, Hydnack Cale Observation 77774 11 Couples, Hydnack Cale Observation 77774 11 Couples, Hydnack Cale Observation 77774 12 Filleng, Gene, Table X, Star Dele 77774 13 A. Gene, Mark Meal 77774 14 Couples, Hydnack Cale Observation 77774 15 Couples, Hydnack Cale Observation 77774 16 Couples, Hydnack Cale Observation 77774 17 Couples, Hydnack Cale Observation 77774 18 A. Mark Head 777774 19	11	2		83022	97	1	Weldment, Handrail Front, NUVL855R	75384CNW-MOD
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16 1. Nupple. Hydrand: Clark. Discover 87715 7 3 Role, Hilts, Work, Chass. 17216 17216 17216 17216 17216 17216 17216 17216 17216 17216 17216 17216 17216 17217								
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16 11 Chain, Nuclei Flaider, 253 Roller Bett HF124,75 112 2 Bott, 14-20 x 38* FL85C-SG0B 28282 25 1 Screw, 51+61 x 1/2, 36t 11568 114 Nut, 264-164 x, 1/2, 36t 3158 26 1 Screw, 51+61 x 1/2, 36t 11568 114 Nut, 264-164 x, 1/2, 36t 3158 27 1 Corringer Weldment 77201 RW-106 114 1 Stel, Rear Barrier 77402 28 2 Berning Tack-Ringer, 20mn x 52mm 77402 77402 77402 38 2 Stel, Eccentric Barring Wildment 773203W 115 800mm, 1/2 1 1/2 Stell CO. X 39T LOng 77402 38 2 Stel, Eccentric Barring Wildment 77323W 113 1 Stell Rearring Tack-Ringer, 20mn x 52mm 77402 39 10 Screw, 1/420 x 38* FL805 X-00 83711 1 Stell Rearring Tack-Ringer, 7500 X-374 Long 77375 30 2 Stell Rearring Tack-Ringer, 750 X-374 Cong 2015 1 100 X-100 X-305 Cong 2015 31 Cori	24	1	Plug, Poly Finish, Black, 1" Hole	81576	110	2		
1 1 Connector Link, #35 Folder Chain #337 28 1 Screw, 30 Fel 3 x17; Set 113 4 Nut, 39:-16 Fenses 85992 29 1 Screw, 30 Fel 3 x17; Set 2008 15 1 Water, 39:-16 Screw, 30:-16 Screw, 30:-16 Screw, 30:-16 Screw, 14:-19, 20:-16 Screw, 14:-20:-16 Screw, 14:-20:-20:-16 Screw, 14:-20:-20:-20:-17 Screw, 14:-20:-20:-20:-20:-20:-20:-20:-20:-20:-20								
28 1 Screw, S1-16 x 1/2", Get 11568 29 1 Screw, S3-16 x 1' Set 2000 30 1 Nut, 36-16 x 1/2", Get 2027 31 1 Carrier State 2027 31 2 State Service 2027 33 2 State Service 2027 34 2 State Service 2000 2027 35 2 State Service 2000 2027 35 3 State Service 2027 2000 2027 2000<								
[29] 1 Storew, 30-15 x 1* Set Widdment 2000 31 1 Au, 30-16. Strendte Plange 80006 31 1 Carriage Weddment 75201PMW-69 82766 32 2 Baering, Soldsor Am Pin 752040 75404 33 2 Shah Baaring Weddment 75203W 75404 34 2 Shah Baaring Weddment 75233W 35 2 Sink E. Exercine Baering Soldsor Am Pin 7533W 36 2 E-Gh, 34'W Store Groove 84377 37 6 E-Cdp, 34'W Store Groove 84377 38 5 Washer, 707 Store Store Groove 84376 39 10 Storev, 14-20 x 34'S, Sore atod, Hex 82761 31 14 Baering, 158'P Co. X 34' Lo. Ass? 83511 32 2 Washer, Ford Stossor Am 72748 34 4 Washer, Ford Stossor Am 727761 34 14 Baering, 158'P Co. Ass? 51150 44 14 Cyhinder Assemby, Ford								
10 Nut, 36-16, Serrated Flange 88065 11 11 Bolt, 14-20 X 34* Serrated Hex 82768 32 2 Statul Bearing, Vendement 755246 118 4 Bearing, Flange 1/D, X 58* OD, X 34* Long 202077 33 4 4 Bearing, Tarak Rolpe, Zamma X Sorma 84305 118 4 Bearing, Tarak Rolpe, Zamma X Sorma 84305 34 4 Bearing, Tarak Rolpe, Zamma X Sorma 84305 118 4 Bearing, Tarak Rolpe, Zamma X Sorma 73335 35 Weaker, 23h* 10: X A52* OD X A55* 98511 128 11 Book, Carring Stap 9007.0 77911N 39 10 Screw, 14-20 X 34*, Serrand, Hex 82711 125 4 Pin, Detern, 12* X Grop, 138.5.S. 319301 14 4 Bearing, Tristo, X A5* OD X, 34* LD, X 00 2511 118 Ring, Rotang Sta* 1111 Star 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111								
11 1 Carriage Weldment 75201FNW-08 22 2 Starting Sciego Arm Prin 75201FNW-08 32027 33 2 Starting Sciego Arm Prin 75201FNW-08 32027 34 4 Berning Chains (200m x 50m m) 4560 32027 35 2 Starting Control								
12 2 Bearing, Scissor Am Pin. 75246 31 2 Shuth Bearing Weidement. 73230W 34 4 Bearing, Track Roler, 20mm x Szmm 64005 35 2 Schuth, Ecoertic Bearing Writt. 73233W 36 2 F-Chip, 344 Boxed X, 380 Groove 64377 37 4 Macher, 2005 Goorden Maxis, 280 Coll. 2437 Science 23385 38 2 F-Chip, 344 Boxed X, 380 Groove 64377 39 10 Screw, 174 24 X 367, Science Acade X, 380 Groove 64377 39 10 Screw, 174 24 X 367, Science Acade X, 380 Groove 633611 39 10 Screw, 174 24 X 367, Science Acade X, 380 Groove 633611 41 Bearing, Flastor, X1450 C.D. X 347 I.D. 40404 112 118 Groove, 174 X 37 Groo, 18.8 S.S. 31180 42 Weahar, 7581 C.D. X, 347 I.D. 40404 112 12 118 Groove, 174 X 37								
38 2 Shaft Bearing Yuek Default 73230W 34 4 Bearing Yuek Abler, Zohm X 2007 74305 35 2 Schaft, Escentric Bearing Wint, 73233W 35 2 Schaft, Schaft Host X 30°C 32337 36 2 Schaft, Schaft Host X 30°C 32337 37 6 E-Cip, 34°E Beard, Schaft Host X 30°C 32357 38 5 Wahner, Ziel ID X, 2007 3437 3355 3357 38 6 Wahner, Ziel ID X, 2007 3437 3557 357								
44 4 Bearing Track Roler, 20mm x 52mm 94005 52 25 Matt, Econtric Bearing Wint. 73233W 76 E-Cills, 344 * Staff, Coorth Bearing Wint. 73233W 76 E-Cills, 344 * Staff, Societ Head x 38-16 28281 78 F. Colls, 344 * Staff, Societ Head x 38-16 28281 78 F. Colls, 344 * Staff, Societ Head x 38-16 28281 78 F. Colls, 344 * Staff, Societ Head x 38-16 28385 78 F. Colls, 344 * Staff, Societ Head x 38-16 28385 78 F. Colls, 344 * Staff, Societ Head x 38-16 28385 78 F. Colls, 344 * Staff, Societ Head x 38-16 28385 78 F. Colls, 344 * Staff, Foot Societ Head x 38-16 28385 78 F. Colls, 344 * Staff, Foot Societ Head x 38-16 28385 78 F. Colls, 344 * Staff, Foot Societ Head x 38-16 28381 78 F. Societ Head x 38-16 28381 78								
15 2 Shaft, Ecoremic Bearing Writt. 72233W 16 2 E-Cilp, 3/4" Sever. Need: SeV Core 94377 17 6 E-Cilp, 3/4" Sever. Need: SeV Core 94377 18 5 Washer, 281" Sov. R28" And Total Sever. 114-20 x 38"; Berrated, Hex 9271 10 Screw. 114-20 x 38"; Berrated, Hex 82761 12 1 Screw. 112-X 31" Core, 12X X3" Corp. 18.8 S.S. 31180 12 1 Screw. 112-X X3" Corp. 18.8 S.S. 31190 12 1 Screw. 112-X X3" Corp. 18.8 S.S. 31190 13 13 13 14 14 4 16.95(1-9-44-X) 17.95(1-0-10-20-20-20-20-20-20-20-20-20-20-20-20-20								
186 2 E-Clp, 3/4* Soft Groove 84377 76 E-Clp, 3/4* Soft Groove 84376 78 E-Clp, 3/4* Soft Groove 8351 78 E-Clp, 3/4* Soft Groove 84169 78 E-Clp, 3/4* Soft Groove 84172 78 E-Clp, 3/4* Soft Groove 84172 78 E-Clp, 3/4* Soft Groove 84376 78 E-Clp, 3/4* Soft Groove 84376 78 E-Clp, 3/4* Soft Groove								
17 6 E-Clp, 34* x, 867 'Grove 84376 18 5 Washer, 2a+1' 0x, 625* 'O. 505*' 83511 19 10 Screw, 114-20 x, 36*', Scratol, Hox 82761 12 1 Block, Carrage Stop, 27*', D. x, 85*', O. 0. 87661 12 1 Block, Targe Stop, 17*', D. X, 85*', O. 0. 87661 12 1 Block, Targe Stop, 17*', D. X, 85*', O. 0. 87761 12 1 Block, Targe Stop, 17*', D. X, 85*', O. 0. 87711 13 1 Clp, Flagter, 5781, D. S. 85*', O. 0. 87711-2 14 1 Cylinder Assembr - Floot 75801, FINA. 130 1 Clp, Flagter, 5716 Ploaks and 1893 84382 14 1 Cylinder Assembr - Floot 73760 N 133 1 Nut, 571-54 K 516*', Stap 540, Stap 500 FINA. 133 1 Nut, 571-54 K 516*', Stap 540, Stap 500 FINA. 133 1 Nut, 571-54 K 516*', Stap 540, Stap 500 FINA. 133 1 Nut, 571-54 K 516*', Stap 540,						2		
10 Seres, 14-20 x 38°, Serrated, Hex 82761 10 2 Washer, Front Scisor Arm 73748 14 4 Bearing, 156°, O.D. x 34° I.D. 84004 12 It Washer, Front Scisor Arm 73748 14 4 Washer, Front Scisor Arm 73741 14 4 Bearing, 75° I.D. x 32° I.Ong 25515 14 1 Cylinder Assemby, Front 75801CFNN 15 1 Cylinder Assemby, Front 75801CFNN 16 2 Pin, Cylinder Mouning, Long, Black 75701N 18 4 Nut, 176°14 S 15° Stairless Jam 31137 18 4 Washer, VIC. Olifoder Rod Pin 31137 19 1 Motor, Electric, In/Out 73740A 15 1 Rod, Barrier Minge 2121 10 Barrier, Outboard 75401RN-140 12 Screw, 14-20 x 38° Fis Scal UND 23117 13 10 Upper Edge Seal 75746RN 13 10 Nut, Fir6-24 L.Fir Scal UND 2	37	6		84376	123	1	Block, Carriage Stop	75781N
40 2 Waster, Front Scisor Arm 73748 41 4 Bearing, 156" (20. x) 34" ID. 84004 42 2 Waster, 758 ID. x 1/24 OD. x 36" ID. 84004 43 4 Bearing, 757 ID. x 1/24 OD. x 36" ID. 84004 44 1 Cylinder Assembly. Front 758017FNA 45 1 Cylinder Mounting, Itack 75701N 46 2 Pin. Cylinder Mounting, Itack 75701N 47 2 Pin. Cylinder Mounting, Itack 75701N 48 4 Nut, 517-62 At Hex Jam 2P 83075 49 1 Motor. Electric. In-Ut 73740A 50 4 Waster, UVL Cylinder Rod Pin 31137 51 1. Spring, Torsion 85101EVO 52 1. Rode, Barner Hinge 3211 53 20. Screw, 14-20 x 38" FL SOC CAP HD 32141 53 1. Barner Infinge 3219 54 1. Barner Infinge 75308INWI 55 1. Barner Infinge 82111 56	38	5	Washer, .281" ID x .625" OD x .055"	83511		1		
14 4 Bearing, 156" O.D. X 34" I.D. 6404 2 Washer, 758 I.D. X, 1245 O.D. X 0.60 25141 14 4 Washer, 758 I.D. X, 1245 O.D. X 0.60 25141 14 1 Cyfinder Assemby, Front 75801CFN.V 16 1 Cyfinder Assemby, Front 75801CFN.V 17 1 Pin, Cylinder Mouning, Lang, Black 75701N 18 4 Nut, 11761-85 X1716* Startless Jam 3113 19 1 Motor, Electric, In/Out 73760A 10 4 Washer, VIX- Unider Rod Mounting, Black 73701N 13 1 Nut, 516-24 LH Hex Jam ZP 83076 14 Motor, Electric, In/Out 73760A 133 1 Nut, 516-24 LH Hex Jam ZP 83076 15 1 Rod, Barrier Hinge 23117 7364 11 841 Nut, 176-24 LH Hex Jam ZP 83076 13 1 Nut, 516-24 LH Hex Jam ZP 83076 11 841 Nut, 516-24 LH Hex Jam ZP 83076 11 Spring, Torsion								
142 2 Washer, 758 LD. x 1.24 S O.D. x .06 25141 143 4 Bearing, 757 LD. x 1.24 S O.D. x .062 25915 144 1 Cyhnder Assembly - Font 75801FFNA 151 Cyhnder Assembly - Font 75801FFNA 162 Pin, Cyinder Mounting, Long, Black 75700N 172 Pin, Cyinder Mounting, Black 75701N 182 2 Screw, 30-16 x 13 S 14 8, 134 S 164, FHSC 30385 184 Nut, 5/16-24 Hex Jam ZP 83076 184 Motor, Electric, In/Out 73780A 133 1 Nut, 5/16-24 Hex Jam ZP 83076 151 Spring, Torsion 85101 EVO 136 1 Lp, Upper Edge Seal 7574FRN 152 Screw, 1/4-20, X38* TL SOC CAP HD 2311 138 Weldment, Hinge 82071R 82071R 152 North, Link pe Platic X3196 1 Spring, Torsion 82071R 820376 132 Screw, 1/4-20, X38* TL SOC CAP HD 23117 138 Weldment, Hinge Platic 74340-3 140	-							
4 Bearing, 72°: LD, x. 62°: Long 29515 44 1. Cyhladr Assembly -Font 75801CFNA 130 1 Clip, 34°: Shaft 82348 45 1 Cyhladr Assembly -Fear 75801CFNA 131 1 E-Cip, 34°: Shaft 84383 46 2 Pin, Cyhladr Mouling, LBack 7570N 131 1 1 516 J ASsembly -Fear 84383 47 2 Pin, Cyhladr Mouling, LBack 7570N 133 1 Nut, 516-24 Hex, Jam ZP 83076 48 4 Nut, 916-18 X-167 Strips, Jam ZP 83076 30375 49 1 Motor, Electric, In/Out 7370A 135 1 U.pu pare Edge Seal 75746RN 50 4 Washer, VL-D X30°; FL SOC CAP HD 23471 138 1 Wealtheartry, INF SXT CAP ZP 82718 51 1 Spring, Torsion 8216 7401RN-137L 139<1								
1 Cylinder Assembly - Font 75801 CFNA 45 1 Cylinder Assembly - Rear 75801 FFNA 74 2 Pin, Cylinder Mounting, Long, Black 75701N 74 2 Pin, Cylinder Mounting, Elack 75701N 74 4 Nut, 5/16-24 Mounting, Black 75701N 74 4 Motor, Electric, In/Out 7370A 74 4 Motor, Electric, In/Out 73780A 75 1 Spring, Torsion 85101 EVO 75 1 Rod, Barrier Hinge 32121 75 20 Sorew, 1/4-20, 38/P E SOC CAP HD 23141 75 1 Barrier, Outboard 7540RNW 75 1 Barrier, Push Buton, PS1 NC Mountain 10P 72420RNW 141 2 75 Sorew, Ji-42, 20 343* Sorew, Ji-42, 20 34* Sorew, Ji-42, 20 34* 73 20 Sorew, Ji-42, 20 34* Sorew, Ji-42, 20 34* Sorew, Ji-42, 20 34* 74 1 Barrier, Julia All All Skilk, Paar Barrier Soregaling All All All <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
46 1 Cylinder Assembj. Pear 7801FFNA 46 2 Pin. Cylinder Mounting, Dag Blok 75701N 47 2 Pin. Cylinder Rod Mounting, Block 75701N 48 4 Nut, 9116-18, S1676 Stainless Jam 31176 49 1 Motor, Electric, In/Out 73760A 50 4 Washer, UVL, Opinder Rod Pin 31137 51 1 Spring, Torsion 85101EVO 52 1 Ped, Barrier Minge 3117 53 20 Screw, 14-20 x 30° TL SOC CAP HD 22471 54 1 Barrier, Orboard 75401FN-137U 55 1 Wolkment, Hinge Plate 75401FN-137U 56 1 Wolkment, Hinge Plate 75401FN-137U 56 1 Serew, 14-20 x 30° T. Soc - 43-43, Serrated, Hex 82789 56 1 Wolkment, Hinge Plate 75306NY 57 2 Screw, 14-20 x 30° T. Soc - 43-43, Serrated Hex 826306 57 3 Screw, 14-20 x 30° T. Serated Hex 82630								
146 2 Pin. Cylinder Mounting, Long, Black 75700N 47 2 Pin. Cylinder Rod Mounting, Black 75701N 48 4 Nut., 916-18, 5/16" Stainless Jam 31176 49 1 Motor, Electric, In/Out 73780A 50 4 Washer, U/L Cylinder Rod Pin 31137 51 1 Spring, Torsion 85101EVO 52 1 Rod, Barrier Hinge 32121 53 2 Screw, 114-20 x 3/8" FL SOC CAP HD 23471 54 1 Barrier, Culboard 75401RN-13YL 55 1 Weldment, Hinge Plate 75420RNW 56 1 Weldment, Hinge Plate 75420RNW 56 2 Screw, 164.23 Screw, 164.23 Nut., Flore Rearbard 57 2 Screw, 164.23 Screw, 164.23 Screw, 164.23 Screw, 164.23 Screw, 164.23 Screw, 164.23 Screw, 164.24 Screw, 164.23 Screw, 164.23 Screw, 164.24 Screw, 164.24 Screw, 164.24 Screw, 164.24 Screw, 164.24 Screw								
47 2 Prin, Cylinder Rod Mounting, Black 75701N 48 4 Nut, 916-18 x 51/6* Stanies Jam 31176 49 1 Motor, Electric, In/Out 73780A 50 4 Washer, UVL, Qinder Rod Pin 31137 51 1 Spring, Torsian 85101EVO 52 20 Sorrew, 14-20 x 38° FL SOC CAP HD 23211 53 10 Barrier Fuinge 32121 54 1 Barrier Quitoard 75401RN-13YL 55 1 Weidment, Hunge Plate 753208 56 1 Weidment, Hunge Plate 84383 56 1 Weidment, Hunge Plate 84383 56 1 Weidment, Hunge Plate 820879-036 57 2 Screw, 1/4-20 X 2 3/4°, Serrated, Hex 82716 58 2 Pin, Outboard Barrier 3218 142 3 Nut, #10-32 Serrated Plange ZP 83080 58 2 Screw, 1/4-20 X 2 3/4°, Serrated, Hex 82753 8144 Screw, 1/4-20 X 13/4								
44 4 Nut, 5/16-24 k 5/16* Stainless Jam 31176 49 1 Nutor, Electric, In/Out 73780A 50 4 Washer, UVL Cylinder Rod Pin 31137 51 1 Spring, Trission 851015VO 52 1 Rod, Barrier Allede Rod Pin 31137 53 20 Screw, 1/4-20 x 38* FL SOC CAP HD 23471 54 1 Barrier, Outboard 7540FNN 55 1 Weldment, Hinge Plate 75420FNNU 56 1 Weldment, Hinge Plate 75420FNNU 56 2 Screw, 71-6-32 Sarade Flange ZP 83008 56 2 Fm, Outboard Barrier 23186 56 2 Fm, Outboard Barrier 7530ERNQ 56 1 Cover, Platform Wring Harness 75736FNV 57346FNV 57346FNV 144 1 Skid, Raer Barrier 75420CNW 52 Screw, 71-6-22 Sarade Flange ZP 83060 75414C 38011 50 2 Cover, Platform Wring Harness								
49 1 Motor, Electric, In/Out 73780A 50 4 Washer, UVL Cylinder Rod Pin 31137 51 1 Spring, Torsion 85101EVO 52 1 Rod, Barrier Hinge 23121 53 20 Screw, 1/4-20 x 3/8" FL SOC CAP HD 23471 54 1 Barrier, Outboard 75401RN-13YL 55 1 Weldment, Hinge Plate 75401RN-13YL 56 1 Sutch, Push Buton, SPST NC Mountain 10PA12 33196 57 2 Screw, J1-64 2x 0 x 3/4", Senatudy, FL SOC CAP HD 23198 58 1 Weldment, Hinge Plate 75401RN-13YL 140 1 Barrier, Actuator Assembly 74340-3 58 2 Pin, Outboard Barrier 32198 142 2 Nut, 410-322 Serrated Flange ZP 83000 59 2 Screw, J1-64 2x 0 x 3/4", Senatudy, Law 82759 143 4 Screw, J1-64 2x 1 1/2", Flat Head with Patch 75414C 60 1 Plate, Platform Hinge Hamess 75320EBNY 144 S								
51 1 Spring, Torsion 85101EVO 52 1 Rod, Barrier Hinge 32121 53 20 Screw, 11/420 x 3/8" FL SOC CAP HD 23121 54 1 Barrier, Outboard 75401RN-13YL 138 1 Weatment, Hinge Plate 82063R036 55 1 Weatment, Hinge Plate 75401RN-13YL 140 1 Barrier, Actuator Assembly 74340-3 56 1 Switch, Push Button, SPST NC Mountain 10PA12 33196 141 2 E-CLip, 3/8" Shatt 84383 56 2 Pin, Outboard Barrier 32198 142 3 Nut, #10-32 Serrated Flange ZP 83080 57 2 Screw, 1/1-62 x 12," Flat Head with Patch 17192P 83080 58 2 Pin, Outboard Barrier 75306IBNGMG 142 Screw, 1/1-62 x 12", Flat Head with Patch 75414C 58 3 Nut, 5/16-24, Nyton, Plated 83079 145 1 Shatt, Barrier Hinge/RR 75414C 58 3 Nut, 5/16-24, Nyton, Plated 83079 <td>49</td> <td>1</td> <td></td> <td>73780A</td> <td>135</td> <td>1</td> <td>Lip, Upper Edge Seal</td> <td>75746RN</td>	49	1		73780A	135	1	Lip, Upper Edge Seal	75746RN
52 1 Rod. Barrier Hinge 32121 53 20 Scraw, 14-20 x 3/8" FLSOC CAP HD 23471 54 1 Barrier, Outboard 75401RN-13YL 55 1 Wedment, Hinge Plate 75401RN-13YL 56 1 Switch, Push Button, SPS INC Mountain 10PA12 33196 57 2 Screw, 14-20 x 3/8" FLSOC Addition 10PA12 33196 57 2 Screw, 14-20 x 2/34", Serrated, Hex 82759 58 2 Pin, Outboard Barrier 22198 54 1 Cover, Platorm Wring Hamess 75738RNY 56 1 Cover, Platorm Wring Hamess 75738RNY 56 2 Screw, #0-32 x 1/4", PAN HD PHL 23512 56 3 Nut, 5r16-24, Nyon, Plated 83079 56 1 Bearing, UHMW Flat PS1006 57 1 Bearing, UHMW Flat PS1006 57 1 Bearing, UHMW Flat PS1006 56 1 Bock, Nyon Silder - Outside 74408	50	4	Washer, UVL Cylinder Rod Pin	31137	136	2		31526
53 20 Screw, 1/4-20 x 3/8" FL SOC CAP HD 23471 54 1 Barrier, Outband 7540 IRN-13YL 55 1 Weldment, Hinge Plate 7540 IRN-13YL 56 1 Switch, Push Button, SPST NC Mountain 10PA12 33196 57 2 Screw, 5/16* x2" Shoulder, Soc. Hd., 1/4-20 82758 58 2 Pin, Outboard Barrier 32198 59 2 Screw, 1/4-20 x 2 3/4", Serrated, Hex 82759 50 1 Cover, Platform Wiring Hamess 75738/BNY 61 1 Cover, Platform Wiring Hamess 75738/BNY 62 1 Cover, Platform Wiring Hamess 75738/BNY 63 1 Boh, 3/8-16 x 3/4" GRB Hex, Auto Black 12463 64 1 Weldment, Hear Barrier 7540CNW 65 3 Nut, 5/16-24, Nyton, Plated 83079 66 11 Boh, 3/8-6 K, Pae Barrier Slider 74408CN 71 Block, Non Slider - Outside 74409 71 Block, Nyton Slider - Outside 74409 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
54 1 Barrier, Outboard 75401RN-13YL 55 1 Weldment, Hinge Plate 75402RNW 56 1 Switch, Push Button, SPST NC Mountain 10PA12 33196 57 2 Screw, 516* x.2* Shoulder, Soc. Hd., 1/4-20 82758 58 2 Pin, Outboard Barrier 32198 61 1 Cover, Platform Wiring Hamess 75738BNY 62 1 Cover, Platform Wiring Hamess 75738BNY 63 2 Screw, #0.422, X 1/47* PAN HD PHL 22512 64 1 Weldment, Cover Platform Wiring Hamess 75738BNY 65 3 Nut, 5/16-24, Nybo, Plated 83079 65 3 Nut, 5/16-24, Nybo, Plated 83079 66 11 Bolt, 3/8-16 x 3/4* GR5 Hex, Auto Black 12463 67 4 Bearing, Platic Flange, 3/8 LD, x 1/4* 24028 67 1 Block, Neon Silder - Outside 74409 73 2 Burk, Silder Silder 75407CNW 74 Bearing, UHMW Flat PS10CN </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
55 1 Weldment, Hinge Plate 75420RNW 56 1 Switch, Push Button, SPST NC Mountal 10PA12 33196 57 2 Screw, K16* X2* Shoulder, Soc. Hd., 1/4-20 82758 58 2 Pin, Outboard Barrier 32198 58 2 Screw, 1/4-20 x 2 3/4*, Serrated, Hex 82759 50 1 Plate, Platform Floor 75306IBNQMG 61 1 Cover, Platform Wiring Harness 75738RW 62 1 Cover, Platform Wiring Harness 75738RW 63 2 Screw, 4/6-32 x 1/4*, PAN HD PHL 23512 64 1 Weldment, Rear Barrier 75400EN 65 3 Nut, 5/16-24, Nylon, Plated 83079 66 11 Bolt, 3/6-16 ks, 3/4* GR5 Hex, Auto Black 12463 66 11 Bolt, 5/6-24, Nylon, Plated 83079 66 11 Bolt, S/6-42 ks 1/2*, FHex, TCAP 24028 70 Block, Nylon Silder - Outside 74408CN 71 Block, Nylon Silder - Outside 74408CN								
56 1 Switch, Push Button, SPST NC Mountain 10PA12 33196 57 2 Screw, <i>51</i> /6* x 2* Shoulder, Soc. Hd., 1/4-20 82758 58 2 Pin, Outboard Barrier 32198 59 2 Screw, <i>11</i> /20 x 3/4*, Serrated, Hex 82759 60 1 Plate, Platform Floor 75306IBNGMG 61 1 Cover, Platform Wiring Harness 75738BNY 62 1 Cover, Platform Wiring Harness 75738BNY 63 2 Screw, <i>16</i> -24, Nyton, Plated 83079 64 Weldment Cover Platform Wiring Harness 75317RNWY 65 3 Nut, <i>5</i> /1-62 x J1/4* PAN HD PHL 23512 14 4 Limit Switch Assembly, UVL 73950A 66 11 Bold, <i>3</i> /8-16 x 3/4* GR5 Hex, Auto Black 12463 67 4 Bearing, UHMW Flat PS1006 68 1 Block, Nyon Silder - Outside 74406CN 74 Bearing, UHMW Flat PS1006 73 2 Bolt, <i>5</i> /16-24 x 1 1/2* THSYT CAP 2760<								
57 2 Screw, 5/16" x 2" Shoulder, Soc. Hd., 1/4-20 82758 58 2 Pin, Outboard Barrier 32198 59 2 Screw, 1/4-20 x 2 3/4", Serrated, Hex 82759 60 1 Plate, Platform Floor 7530EIBNGMGY 61 1 Cover, Platform Wring Harness 75738IBNY 62 1 Cover, Platform Wring Harness 75738IBNY 63 2 Screw, 1/4" PAN HD PHL 23512 64 1 Weldment Cover Platform Wring Harness 75317RNWY 65 3 Nut, 5/16-24, Nylon, Plated 83079 66 11 Bolt, 3/8-16 x 3/4" GR5 Hex, Auto Black 12463 76 4 Bearing, UHIWW Flat P51006 76 4 Bearing, UHIWW Flat P51006 70 1 Block, Nylon Silder - Outside 74400 71 1 Block, Nylon Silder - Outside 74409 72 1 Link, Rocker Assembly, U.B., UVL 754074 78 1 Bracket, Pulley Spring Tensioner								
58 2 Pin, Outboard Barrier 32198 59 2 Screw, 1/4-20 x 2 3/4", Serrated, Hex 82759 60 1 Plate, Platform Floor 75306/BNGMG 61 1 Cover, Platform Wiring Harness 75738/BNY 62 1 Cover, Platform Wiring Harness 75738/BNY 63 2 Screw, #8-32 x 1/4" PAN HD PHL 23512 64 1 Weldment Cover Platform Wiring Harness 75317/RNWY 65 3 Nut, 5/16-24, Nyon, Plated 83079 66 11 Bolt, 3/8-16 x 3/4" GR5 Hex, Auto Black 12463 67 4 Bearing, UHMW Flat P51006 68 1 Block, Nyon Silder - Inside 744400 70 1 Block, Nyon Silder - Outside 74409 74 Bearing, 1/10x/Nio Silder - Outside 74409 75 1 Screw, #1-20 x 1" SER HX 2P 82760 70 1 Block, Nyon Silder - Outside 74409 71 1 Block, Nyon Silder - Outside 74440								
59 2 Screw, 1/4-20 x 2 3/4", Serrated, Hex 82759 60 1 Plate, Platform Floor 75306IBNGMG 61 1 Cover, Platform Wring Harness 75336IBN 63 2 Screw, #A-32 X 1/4" PAN HD PHL 2351 64 1 Weldment Cover Platform Wring Harness 75337BNV 65 3 Nut, 5/15-24, Nylon, Plated 83079 66 11 Bolt, 38-65 Hex, Auto Black 12463 67 4 Bearing, UHMW Flat P51006 68 1 Block, Rear Barrier Slider 75430 70 1 Block, Nylon Slider - Inside 74410 71 1 Block, Nylon Slider - Outside 744100 72 1 Link, Rocker Assembly, I.B., UVL 75431CNA 75 1 Screw, #10-32 x 1/2" FMST CAP 27603 75 1 Screw, #10-32 x 1/2" Set 26613 76 1 Block, Nylon Slider - Outside 75407CNW 75 1 Screw, #10-32 x 1/2" Set 26613								
60 1 Plate, Platform Kloor 75306/BNGMG 61 1 Cover, Platform Wiring Harness 75736RNY 62 1 Cover, Platform Wiring Harness 75736RNY 63 2 Screw, #3-32 x1/4" PAN HD PHL 23512 64 1 Weldment Cover Platform Wiring Harness 75336RNY 65 3 Nut, 5/16-24, Nylon, Plated 83079 66 11 Boh, 3/8-16 x 3/4" GR5 Hex, Auto Black 12463 67 4 Bearing, Plastic Flange, 3/8 I,D, x1/4" PS1006 68 1 Block, Rear Barrier Slider 74408CN 69 4 Bearing, Plastic Flange, 3/8 I,D, x1/4" 24028 70 1 Block, Nylon Slider - Inside 74410 71 1 Block, Nylon Slider - Outside 74409 72 1 Link, Rocker Assemby, I.B., UVL 754317CNW 75 1 Screw, #10-32 x 1/2" Set 26613 73 2 Boh, 5/1-62-4 x 1 1/2" Strew 2760 75 1 Bracket, Cam, Lift O						2		
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68 1 Block, Rear Barrier Slider 74408CN 69 4 Bearing, Plastic Flange, 3/8 LD. x 1/4" 24082 70 1 Block, Nylon Slider - Inside 74410 71 1 Block, Nylon Slider - Outside 74409 72 1 Link, Rocker Assembly, I.B., UVL 75431CNA 73 2 Bolt, 5/16-24 x 11/2" FHSKT CAP 27803 74 1 Weldment, Slide Block Rod 75407CNW 75 1 Screw, #10-32 x 1/2" Set 26613 76 1 Tie Rod, Rear Barrier 75407CN-2 77 1 Bracket, Cam, Lift Out 7577CN-2 78 1 Bracket, Cam, Lift Out 73775 79 1 Weldment Barrier 75321RNW 80 1 Assembly Switch Actuator NUVL 33201A 82 1 Cam, Rear Barrier Weldment 75408NW 83 3 Clamp, Insulate, 11/8" 20535 84 1 Bracket, Switch In/Out Mounting 73747								
69 4 Bearing, Plastic Flange, 3/8 I.D. x 1/4" 24028 70 1 Block, Nylon Slider - Inside 7440 71 1 Block, Nylon Slider - Inside 7440 71 1 Block, Nylon Slider - Outside 7440 72 1 Link, Rocker Assembly, I.B., UVL 75431CNA 73 2 Bolt, 5/16-24 x 1 1/2" FHSKT CAP 27803 74 1 Weldment, Slide Block Rod 75407CNW 75 1 Screw, #10-32 x 1/2" Set 2661 76 1 Flacket, Cam, Full Out 757407CN-2 77 1 Bracket, Cam, Full Out 75776CN 78 1 Bracket, Cam, Lift Out 73775 79 1 Weldment Barrier 75231RNW 80 1 Assembly Switch Actuator NUVL 33201A 81 2 Screw, 1/4-20 x 1/4", Pan Head, Nylon 82773 82 1 Cam, Rear Barrier Weldment 75408WW 83 Clamp, Insulate, 1 1/8" 20535 84								
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71 1 Block, Nylon Slider - Outside 74409 71 1 Link, Rocker Assembly, I.B., UVL 75407 73 2 Bolt, 5/16-24 x 11/2" FHSKT CAP 27803 74 1 Weldment, Slide Block Rod 75407 75 1 Screw, #10-32 x 1/2" Set 26613 76 1 Tie Rod, Rear Barrier 75407 77 1 Bracket, Cam, Lill Out 75776 78 1 Bracket, Cam, Lilt Out 73775 79 1 Weldment Barrier 75321RNW 80 1 Assembly Switch Actuator NUVL 33217 82 1 Cam, Rear Barrier Weldment 75321RNW 81 2 Screw, 1/4-20 x 1/4", Pan Head, Nylon 82773 82 1 Cam, Rear Barrier Weldment 75408NW 83 3 Clamp, Insulate, 1 1/8" 20535 84 1 Bracket, Switch In/Out Mounting 73719 85 3 Tape, Limit Switch Mounting Pad 73747								
72 1 Link, Rocker Assembly, I.B., UVL 75431CNA 73 2 Bolt, 5/16-24 x 1 1/2' FHSKT CAP 27803 74 1 Weldment, Slide Block Rod 75407CNW 75 1 Screw, #10-32 x 1/2'' Set 26613 76 1 Tie Rod, Rear Barrier 75407CNW 77 1 Bracket, Cam, Lift Out 7577CN-2 78 1 Bracket, Cam, Lift Out 73775 79 1 Weldment Barrier 75321RNW 80 1 Assembly Switch Actuator NUVL 33201A 81 2 Screw, #14-20 x 14", Pan Head, Nylon 82773 82 1 Cam, Rear Barrier Weldment 75408NW 83 3 Clamp, Insulate, 1 1/8" 20555 84 1 Bracket, Switch In/Out Mounting 73747 71 2 Clamp, Jsylack (Not Shown) 910-000								
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75 1 Screw, #10-32 x 1/2" Set 26613 76 1 Tie Rod, Rear Barrier 75407CN-2 161 4 Spacer, Bearing 75231 77 1 Bracket, Cam, Lift Out 7577CN-2 162 1 Tape, 1/16" x 3/4" x 108" DBL Face 82033R312 78 1 Bracket, Cam, Lift Out 73775 164 1 Tape, 1/16" x 3/4" x 108" DBL Face 82034R312 79 1 Weldment Barrier 75321RNW 164 1 Spring, 1/2 x 5 x.075 EXT L 7.6" 25717 79 1 Weldment Barrier 75321RNW 165 2 Screw, #10-32 x 5/8" Flat Head Hex Socket 26058 80 1 Assembly Switch Actuator NUVL 33201A 166 2 Nut, 3/8-16 UNC Hex Lock-Jamb 20926 81 2 Screw, 1/4-20 x 1/4", Pan Head, Nylon 82773 167 22 Rivet, Push In, 8MM 30063 82 1 Cam, Rear Barrier Weldment 75408NW 168 1 Shield, Plastic, Cover Guard, Handrail 75385-04-MOD <	73		Bolt, 5/16-24 x 1 1/2" FHSKT CAP	27803	159		Pulley, Spring Tensioner	75749N
76 1 Tie Rod, Rear Barrier 75407CN-2 77 1 Bracket, Cam, Full Out 75776CN 78 1 Bracket, Cam, Full Out 75776CN 79 1 Weldment Barrier 75321RNW 80 1 Assembly Switch Actuator NUVL 33201A 81 2 Screw, 1/4-20 x 1/4", Pan Head, Nylon 82773 82 1 Cam, Rear Barrier Weldment 75408NW 83 3 Clamp, Insulate, 1 1/8" 20535 84 1 Bracket, Switch In/Out Mounting Pad 73719 70 1 Bracket, Switch In/Out Mounting Pad 73747								
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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 . 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. The cost of labor for any repair or replacement in the second and third year of warranty coverage is the sole responsibility of the owner. This warranty does not cover labor costs in the second or third year of coverage.

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, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS, IS LIMITED IN DURATION TO THE TERMS OF THIS LIMITED WARRANTY AND IS LIM-ITED 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 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 SURVIVE ANY DETERMINATION THAT THIS LIMITED WARRANTY OR ANY IMPLIED WARRANTY HAS FAILED OF ITS ESSENTIAL PURPOSE.

Braun® Limited Warranty

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 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 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.

Braun[®] 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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Service Manual for:



Public Use Wheelchair Lifts

Under-Vehicle Lift®

Series 03

Patent #5,305,486

