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This Ricon service manual is for use by qualified service technicians, and is not intended for use by non-professionals (do-it-yourselfers). The manual provides essential instructions and reference information, which supports qualified technicians in the correct installation and maintenance of Ricon products.

Qualified service technicians have the training and knowledge to perform maintenance work properly and safely. For the location of a service technician in your area, call Ricon Product Support at 1-800-322-2884.

"DOT – Public Use Lift" verifies that this platform lift meets the public use lift requirements of FMVSS no. 403. This lift may be installed on all vehicles appropriate for the size and weight of the lift, but must be installed on buses, school buses, and multi-purpose passenger vehicles other than motor homes with a gross vehicle weight rating (GVWR) that exceeds 10,000 lbs (4,536 kgs).

Customer Name: Installing Dealer: Date Installed:	
Serial Number:	

REVISION RECORD

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32DBLE02.	1-2	Update to Warranty verbiage.	6663
C.1	2-3	Update to Section 2 verbiage.	0003
	4-1-4-27	Update to Spare Parts	
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I. INTRODUCTION

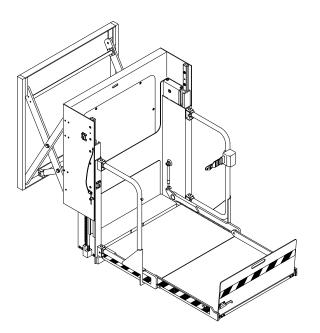
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he RICON BayLift[®] Public Use wheelchair lift is intended to provide wheelchair access to public vehicles including buses, school buses, large multi-purpose passenger vehicles, and is DOT compliant. For proper operation, it is imperative that the lift operator be thoroughly familiar with the major components of the unit, the controls and their functions, operation of the unit, and the safety and warning features.

This lift is for the physically challenged only and must be operated by trained personnel. The mechanical linkages provide smooth movement to the platform, which has a rated load capacity of 600 pounds (273 kilograms). Use of this lift for any other purpose is hazardous.

<u>NOTE</u>: The lift is not to be used for lifting cargo or freight. To do so might overload the mechanism, making the system unsafe for passengers, and will instantly void the warranty.

Five hydraulic cylinders are employed to move the lift components. Two cylinders are mounted within the scissors assembly to extend and retract the platform assembly. A third cylinder raises and lowers the inner barrier.



The remaining two cylinders raise and lower the platform assembly. The movement of these cylinders is multiplied by a chain lift connected between the intermediate frame (rear portion of platform assembly) and the platform itself. As the cylinders lift the intermediate frame the chain lift doubles the movement of the platform assembly.

The lift contains an electro-hydraulic pump with a built-in manual backup pump. If the lift loses electrical power, it can be raised or lowered manually. The cylinders are controlled by solenoid valves that are operated manually if there is an electrical failure.

Platform movement is controlled with buttons on the hand held pendant. By using the buttons, the lift is extracted from the vehicles storage compartment and lowered to the ground level. The passenger boards the large non-skid platform and the operator uses the buttons to raise the platform to vehicles floor level. After the passenger departs, the platform is raised and retracted back into the vehicle. A similar procedure is used to exit.

This manual contains installation instructions, maintenance and repair instructions; a troubleshooting guide, and parts and diagram lists. It is important to user safety that the lift is operated by trained personnel. Once the lift is installed, it is very important that

the lift be properly maintained by following the Ricon recommended maintenance and inspection instructions provided.

A. RICON PRODUCT SUPPORT

If you have questions about this manual, or additional copies are needed, please contact Ricon Product Support at one of the following locations:

Ricon Corporation	
1135 Aviation Place	
San Fernando, CA 91340	
Outside (818) Area Code	
Website	

Vapor Ricon Europe Ltd.	
Meadow Lane	
Loughborough, Leicestershire	0044 (9) 1509 635 920
LE 1HS United Kingdom	
Website	www.riconuk.com

B. RICON BAYLIFT LIMITED WARRANTY

RICON CORPORATION BAYLIFT[®] PUBLIC WHEELCHAIR LIFT TWO-YEAR LIMITED WARRANTY

Ricon Corporation (Ricon) warrants to the original purchaser of this product that Ricon will repair or replace, at its option, any part that fails due to defective material or workmanship as follows:

- Repair or replace parts for a period of two (2) years from the date of lift purchase.
- Labor costs for specified parts replaced under this warranty for a period of two (2) years from the date of lift purchase. A Ricon rate schedule determines parts covered and labor allowed.

If you need to return a product: Return this product to Ricon, following the Ricon RMA procedure. Please give as much advance notice as possible, and allow a reasonable amount of time for repair.

This warranty does not cover: Malfunction or damage to product parts caused by accident, misuse, lack of proper maintenance, neglect, improper adjustment, modification, alteration, the mechanical condition of the vehicle, road hazards, overloading, failure to follow operating instructions, or acts of nature (i.e., weather, light-ning, flood).

Note: Ricon recommends that this product be inspected by a Ricon dealer or qualified service technician at least once every six months, or sooner if necessary. Required maintenance should be performed at that time.

THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO EXACT SPECIFICATIONS. ANY MODIFICATION OF THIS PRODUCT IN ANY RESPECT CAN BE DANGEROUS.

This warranty is void if:

- The product has been installed or maintained by someone other than a Ricon dealer or qualified service technician.
- The product has been modified or altered in any respect from its original design without written authorization by Ricon.

Ricon disclaims liability for any personal injury or property damage that results from operation of a Ricon product that has been modified from the original Ricon design. No person or company is authorized to change the design of this Ricon product without written authorization by Ricon.

Ricon's obligation under this warranty is exclusively limited to the repair or exchange of parts that fail within the applicable warranty period and the authorized labor to accomplish said repair.

Ricon assumes no responsibility for expenses or damages, including incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply.

Important: The warranty registration card must be completed and returned to Ricon within 20 days after installation of this Ricon product for the warranty to be valid. The warranty is not transferable.

The warranty gives specific legal rights. There may be other rights that vary in each state.



C. SHIPMENT INFORMATION

- When the product is received, unpack the product and check for freight damage. Claims for damage should be made to the freight carrier immediately.
- Be sure the installation kit contains all items listed on the kit packing list. Please report any missing items immediately to Ricon Product Support.
- The warranty and owner registration cards must be completed and returned to Ricon within 20 days to validate the warranty.
- **NOTE:** The Sales or Service personnel must review the Warranty and this Operator Manual with the user to be certain that they understand how to safely operate the product and instruct the user to follow the operating instructions without exception.

D. GENERAL SAFETY PRECAUTIONS

The following general safety precautions must be followed during installation, operation, and maintenance:

- Under no circumstances should installation, maintenance, repair, and adjustments be attempted without the immediate presence of a person capable of rendering aid.
- An injury, no matter how slight, should always be attended. Always administer first aid or seek medical attention immediately.
- Protective eyeshields and appropriate clothing should be worn at all times.
- To avoid injury, always exercise caution when operating and be certain that hands, feet, legs, and clothing are not in the path of product movement.
- Batteries contain acid that can burn. If acid comes in contact with skin, flush affected area with water and wash with soap immediately.
- Always work in a properly ventilated area. Do not smoke or use an open flame near a battery.
- Do not lay anything metallic on top of a battery.
- Check under vehicle before drilling to avoid drilling into frame, subframe members, wiring, hydraulic lines, fuel lines, fuel tank, etc.
- Read and thoroughly understand the operating instructions before attempting to operate.
- Inspect the product before each use. If an unsafe condition is noted, such as unusual noises or movements, do not use lift until the problem is corrected.
- Never load or stand on the platform until installation is complete. Upon completion of installation, test load the lift to 100% of its rated load capacity.
- Stand clear of doors and platform and keep others clear during operation.
- The product requires regular periodic maintenance. Inspections are recommended at the intervals prescribed in chapter three. The product must be maintained at the highest level of performance.



E. MAJOR LIFT COMPONENTS

The references used throughout this manual are illustrated in **Figures 1-1, 1-2** and defined in the **Tables 1-1, 1-2**. Refer to **Chapter IV** "Parts Diagrams and Lists" for more details.

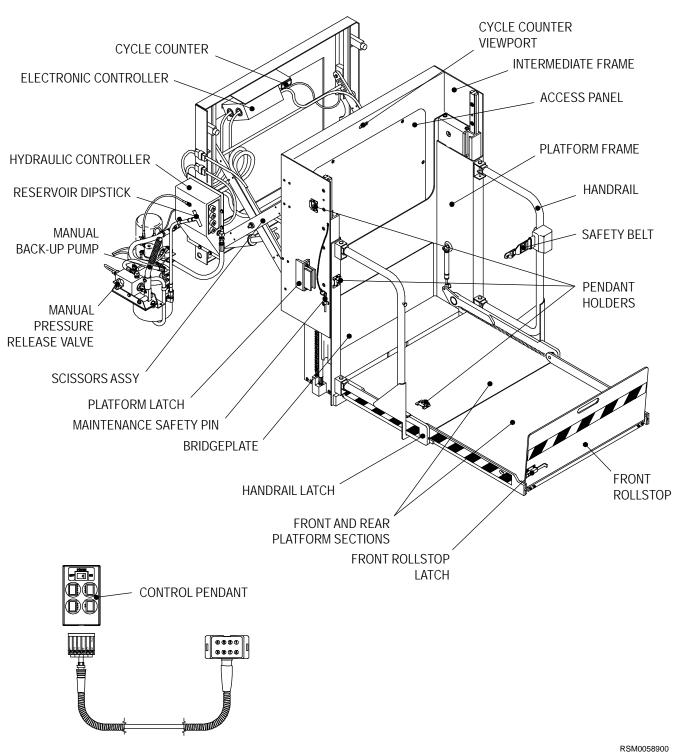


FIGURE 1-1: BAYLIFT PUBLIC USE WHEELCHAIR LIFT COMPONENTS



TABLE 1-1: BAYLIFT TERM DEFINITIONS		
TERM	DESCRIPTION	
Left, right, front, rear	Position references when installed lift is viewed from outside of vehicle.	
Access panel	Provides easy access to components located behind intermediate frame.	
Audible alarm	(not shown) Announces that something has passed through doorway threshold area and platform. Is 71" from vehicle floor level. Activated by threshold warning system (TWS). Refer to "Threshold Warning System" in Chapter II.	
Bridgeplate	Plate bridges gap between platform and vehicle floor when platform is at floor level. Acts as rear barrier during up and down platform motions to prevent wheelchair from rolling off of platform.	
Control pendant	Hand-held device controls platform motions.	
Cycle counter viewport	The counter can be seen here. It records number of times platform has moved from floor to ground and back to floor.	
Electronic controller	Receives input signals from pendant and lift sensors and sends control signals to pump motor and hydraulic controller.	
Front and rear platform sections	Lift components where wheelchair and occupant are situated during UP and DOWN platform motions. Folds and stows into platform frame.	
Front rollstop	Front barrier prevents the wheelchair from inadvertently rolling off platform during plat- form movement.	
Front rollstop latch	Manually operated latch locks front rollstop in stowed position. Rollstop is locked in upright position by dropping into slots.	
Handrail	(left and right) Provides a handhold for standing passenger (standee).	
Handrail latch	(left and right) Manually operated latch locks handrail in outward or inward position. Push handrail downward to release latch.	
Hydraulic controller	Electro-hydraulic, solenoid valve system controls distribution of hydraulic fluid to cylin- ders. Receives input signals from electronic controller.	
Hydraulic pump and reservoir	Hydraulic pump is driven by electric motor and produces pressure to extend and raise platform and to raise bridgeplate. Includes manual backup components.	
Intermediate frame	Rigid structure suspended on outer ends of scissor assembly. Platform frame is at- tached to front face.	
Maintenance safety pin	(left and right) Maintenance item that is employed to lock platform in position on inter- mediate frame. Must be removed for normal operation.	
Manual backup pump handle	Use to operate manual backup pump when electrical power is not available.	
Manual bypass knobs	Four knobs are employed during manual operation to control distribution of hydraulic fluid to preferred lift cylinders.	
Manual pressure release valve	Opening valve bleeds pressure from hydraulic system, allowing platform or bridgeplate to lower.	
Pendant holders	(up to three each, depending on application) Storage clips for pendant. One clip is at- tached to bottom of platform.	
Platform frame	Structure that platform and handrails attach to. Moves up and down on sliders fas- tened to intermediate frame.	
Platform latch	Magnetic catch that holds folded platform sections in upright position.	
Reservoir dipstick Use to determine fluid level in reservoir.		



TABLE 1-1: BAYLIFT TERM DEFINITIONS		
TERM DESCRIPTION		
Safety belt Safety restraint belt that spans between handrails to confine passenger.		
Scissors assembly (left and right) Telescoping components that support intermediate frame and platform, and allow horizontal movement.		
Visual alarm(not shown)Flashing red light makes it known that something has passed through door way threshold area. Activated by threshold warning system (TWS). Refer to "Threshold Warning System" in Chapter II.		
END OF TABLE		



BAYLIFT SERVICE MANUAL -

II. BAYLIFT PUBLIC USE DESCRIPTIONS

his chapter contains BayLift Public Use wheelchair lift four basic functions and positions, and control and indicator descriptions for the hand held, remote-control pendant.

A. BAYLIFT FUNCTIONS AND POSITIONS

Refer to **Table 2-1** for descriptions of the four basic motions. These functions are put into action by using the hand held, hard-wired remote-control pendant.

NOTE: The platform is an assembly comprised of the intermediate frame, platform frame, handrails, front and rear platform sections, bridgeplate, and front rollstop. Note that up and down motions operate only when platform is fully extended.

Refer to Figure 2-1 to see the lift at floor, ground and stow levels, and stowed position.

TABLE 2-1: PLATFORM MOTIONS			
MOTION		DESCRIPTION	
	DEPLOY	Platform moves outward from lift compartment	
DOWN Platform lowers towards ground level. Bridgeplate automatically rises when platform drops below floor level.			
UP Platform rises towards vehicle floor level. Bridgeplate automatically lowers when platform arrives at floor level.		Platform rises towards vehicle floor level. Bridgeplate automatically lowers when plat- form arrives at floor level.	
	STOW	Platform moves downwards towards stow level and then retracts into lift compartment. If platform is below stow level, it must first be raised above stow level.	
END OF TABLE			

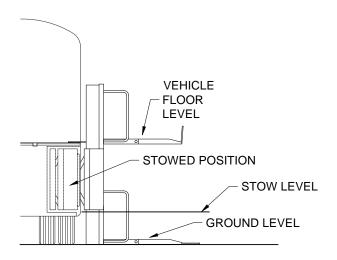


FIGURE 2-1: PLATFORM POSITIONS

CON:

The maintenance safety pins must be removed before attempting to raise or lower the platform. Severe damage to lift will occur if the pins are not removed. The pins are normally stored on the side and are for maintenance only. There is a pin on each side of the lift.

B. CONTROLS AND INDICATORS

THE LIFT IS ALLOWED TO OPERATE ONLY WHEN THE LIFT AND VEHICLE INTERLOCK CIRCUITRY REQUIREMENTS ARE MET. IF NECESSARY, REFER TO VEHICLES OPERATOR MANUAL FOR INTERLOCK INSTRUCTIONS. DO NOT ATTEMPT TO OPERATE LIFT WITH INTERLOCK BYPASSED.

1. CONTROL PENDANT

Refer to Figure 1-1 in Chapter 1 of Ricon document number 32DBLE03. There are 2 to 3 pendant storage clips (depending on application) located on the unit. The clip shown above is for use by the operator only when loading or assiting passangers. The pendant must be attached to the clip located on the bottom of the platform when the platform is stowed The pendant will be severly damaged by the bus doors if left stored on either of the other clips.

Refer to **Figure 2-2**. The lift is operated with a hand-held, hard-wired remote-control pendant. Turn on the POWER ENABLE switch and then press an appropriate button to control each lift motion.

The POWER ENABLE switch provides power to the pendant and thereby enables the lift. When turned on, the power switch and each button illuminate.

Pressing the DEPLOY button extends the platform from the storage compartment, and pressing the STOW buttons retracts the platform back into the storage compartment. Pressing the DOWN button lowers the platform towards the ground and pressing the UP button raises the platform towards the vehicle floor.

A button must be depressed until the motion is completed. Movement of the platform can be halted at any time by releasing the button.

NOTE: In addition to the four powered operations described above, there are several manual operations required to deploy, lower, and stow the platform. Refer to the BayLift operator manual (32DBLE03), "Normal Lift Operation" section.

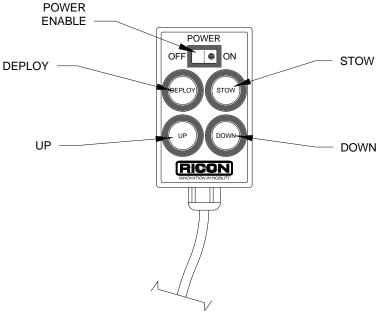


FIGURE 2-2: CONTROL PENDANT

2. CIRCUIT BREAKERS

• Main Circuit Breaker

Refer to **Figure 2-3**. The main circuit breaker is located in vehicle battery compartment and is used to interrupt electrical power to lift electrical system when a major short circuit occurs. In the event of such a short circuit, the circuit breaker reset tab will rotate CW (flip-down). Rotate tab CCW as shown to reset. If rotating reset tab CCW and releasing does not restore power, <u>do not</u> press and hold tab. Contact a Ricon dealer or qualified service technician for repair.

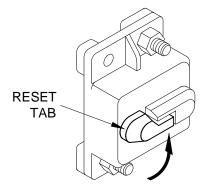


FIGURE 2-3: MAIN CIRCUIT BREAKER

Control System Circuit Breaker

The control system circuit breaker is located on the PCB assembly, which is inside the electronic controller. The control system includes essentially all electrical components except the motor that drives the hydraulic pump.

3. VEHICLE INTERLOCK SYSTEM

The purpose of the vehicle interlock system is to prevent lift operation if it is unsafe to do so. Typical requirements are that the vehicle transmission be in neutral, the parking brake be applied, and the passenger door be opened before power is supplied to the lift. Before the vehicle can depart, the lift must be stowed, and both the lift compartment door and passenger door must be closed.

4. BRIDGEPLATE LOAD SENSOR

A sensor switch is located in the hydraulic line connected to the bridgeplate hydraulic cylinder. When the sensor detects that an object is present on the bridgeplate it inhibits raising or lowering of the platform. This protects the passenger from possible injury when the cylinder raises the bridgeplate. It also protects the bridgeplate from damage, which could interfere later with proper operation of the lift.

5. LIFT CYCLE COUNTER

Refer to Figure 1-1 in Chapter I. The cycle counter (located near the electronic controller) is visible through a slot at the top center of the intermediate frame, just above the access panel. The counter advances each time the platform moves through a complete cycle, which consists of the platform moving from the vehicle floor to the ground and back to the floor. The number of cycles displayed is used to schedule maintenance operations.

6. THRESHOLD WARNING SYSTEM

Refer to **Figure 2-4.** The threshold warning system is installed at the top of the doorway above the lift compartment. The module is powered on when the lift is powered, and the status indicator light then turns on. The acoustic sensors are enabled when the door is open and the lift-to-vehicle interlock system requirements are met.

<u>NOTE</u>: Some installations provide a vehicle door closure signal to the module that will disable the sensors when the door is closed.

Acoustic sensors (transmitter and receiver) monitor the doorway threshold area for the presence of a passenger (or object, such as a wheelchair). If someone is detected in the threshold area when the platform is one inch, or more, below the floor an audible buzzer and flashing red light are actuated.

This system provides a margin of safety for lift passengers by warning them when the platform is below floor level. The platform <u>must be at floor level</u> when a passenger is boarding or exiting the platform.

NOTE: An optional installation method can disable the buzzer and flashing light when the door is closed. In this case, the status indicator flashes when a passenger presence is detected.



BAYLIFT SERVICE MANUAL STATUS INDICATOR BUZZER FLASHING LIGHT FLUENCE 2-4: THRESHOLD WARNING SYSTEM MODULE VIEWED FROM INTERIOR OF VEHICLE)

7. MANUAL BACK-UP PUMP

INSTALLATION

Refer to **Figure 2-5**. The manual backup pump system can operate the lift if electrical power is not functional. The controls for the system consist of a pump handle (not removable) and pressure release valve, which are used in conjunction with four bypass knobs to extend, raise, lower, and retract the platform.

The four bypass knobs shown on the front face of the hydraulic controller are connected to four solenoid valves located inside the enclosure. The open or closed position of each solenoid valve determines how fluid is distributed to the five hydraulic cylinders. The knobs provide the ability open and close the valves manually.

Instructions for operating the manual pump are provided in the Manual Operation section in this chapter.

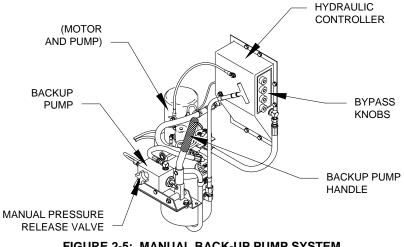


FIGURE 2-5: MANUAL BACK-UP PUMP SYSTEM



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III. BAYLIFT MAINTENANCE AND REPAIR

R egular maintenance of the Ricon BayLift Public Use Wheelchair lift is essential for optimum performance, and will reduce the need for repairs. During the Ricon warranty period, a Ricon dealer or qualified service technician must perform maintenance. Ricon recommends that a Ricon dealer or qualified service technician continue maintenance when the warranty expires.

🔥 WARNING

THIS RICON PRODUCT IS HIGHLY SPECIALIZED. MAINTENANCE AND REPAIRS MUST BE PERFORMED BY A RICON DEALER OR QUALIFIED SERVICE TECHNICIAN USING RICON REPLACEMENT PARTS. MODIFYING OR FAILING TO PROPERLY MAINTAIN THIS PRODUCT WILL VOID WARRANTY, AND MAY RESULT IN UNSAFE OPERATING CONDITIONS.

The BayLift requires a minimum amount of maintenance. Below are basic care and maintenance items.

A. VISUAL INSPECTION

Prior to operating the lift, and during repair procedures and during the vehicle's standard preventive maintenance schedule, the unit should be inspected. The operator and maintenance personnel should routinely inspect the following items.

1. ATTACHING HARDWARE

Periodically inspect for loose or missing attaching hardware. Tighten or replace as required

2. HYDRAULIC HOSES

For the hydraulics, flexible hose lines are used to provide routing ease, vibration absorption, sound deadening and the ability to accommodate movement of equipment. Hoses have a finite service life and should be inspected periodically.

If a hydraulic hose is found defective or is damaged, it must be replaced. DO NOT repair hydraulic hoses, replace as an assembly. Attempting to repair a hose can undermine design and operational parameters and create an unsafe condition for personnel and equipment. Hose assemblies are available from Ricon. Hoses must be made by a shop qualified to make high presure hydraulic hoses assemblies. Hose assemblies made by an outside vendor must meet or exceed the parameters of the original equipment.

If any of the following conditions exist, the hose assembly must be replaced:

- Leaks at fitting or in hose.
- Damaged, cut or abraded cover (reinforcement is exposed).
- Kinked, crushed, flattened, or twisted hose.
- Hard, stiff, heat cracked or charred hose.
- Blistered, soft, degraded, or loose cover material.
- Cracked, damaged, or badly corroded fittings.
- Fitting slippage on hose.

The following items must be tightened, repaired or replaced as required:

- Leaking port connections.
- Clamps, guards, shields.
- Remove excessive dirt buildup.
- System fluid level, fluid type, and any air entrapment.
- Contaminated (dirt, debris) or deteriorated fluid.

3. HYDRAULIC CYLINDERS

Inspect cylinders for leaks. A minor amount of oil on the piston shaft is acceptable. If leaks are detected, install new seal kit or replace cylinder as required.

4. POWER UNITS

Inspect for leaks, repair as required. Test the operation of the hand pump.



5. NON-SKID SURFACES

Check non-skid surfaces for excessive wear and loose edges. Repair or replace as required.

B. CHAIN LUBRICATION

A light coat of oil should be applied to the chain located inside the moving frames approximately every 12 months or whenever the chain is detached or handled for the maintenance/service. The amount of oil and service interval may vary depending on use and local environmental conditions.

C. HYDRAULIC RESERVOIR

The hydraulic reservoir fluid level should be checked, as well as during the vehicle's standard preventative maintenance schedule.

1. TO CHECK AND FILL:

• Lower platform to ground level. This is to collapse the cylinders.

CAUTION When the lift is completely lowered, the hydraulic cylinders are drained and the reservoir is at its fullest. Checking and filling the reservoir with the lift elevated will cause an overfill condition.

- Use the dipstick to measure the amount of oil in the reservoir.
- Using a long necked funnel, fill the reservoir through the dipstick tube or the breather cap. If filling through the dipstick tube, add oil then let the oil level stabilize before measuring. Repeat the procedure until the level is at the full mark on the dipstick.

2. FILTER INSPECTION:

- The intake tube is equipped with a screen filter. The filter should not require maintenance as long as the oil remains clean, however the filter should be inspected every 500 operating hours or anytime oil contamination is suspected. Refer to section E for disassembly and cleaning procedures.
- Change the hydraulic fluid every 500 hours or when inspecting the filter. Refer to section E for disassembly procedures.
- The reservoir holds approximately 6 quarts of hydraulic fluid. Amount may vary slightly because of the quantity of oil in the cylinders and hoses. Use Pentosin G002000 or hydraulic fluid.
- Whenever the system is opened and drained, it is necessary to bleed the system after filling. Refer to section E for procedures.

D. DIAGNOSES PROCEDURE OVERVIEW

1. VERIFY PROBLEM EXISTS

The first step in diagnosing any problem is to identify what the problem is. Mistaking or ignoring symptoms can lead to unnecessary work and/or part replacement. Spend time with the operator to determine what is wrong and what is working right. Eliminate operator error, (switches not turned on, gear not engaged etc.)

2. PERFORM PRELIMINARY DIAGNOSTICS

A combination of visual inspection and a review of recent work along with some basic inspection procedures are used to eliminate fundamental causes such as low battery voltage, etc.

3. REVIEW TECHNICAL SERVICE BULLETINS (TBS'S)

If a common issue occurs that may affect units in service, vendors and/or the factory may issue TBS's that explain the problem and subsequent solutions.

4. DIAGNOSE SYMPTOMS

Follow the step-by-step procedures in this section to analyze the problem and repair as required.

5. CONTROL CIRCUIT BOARD

The electronic control circuit board controls and push buttons coordinate the various functions of the lift. A series of LED indicators are used to indicate which function activity is being performed. These lights can be used to diagnose and troubleshoot the operation of the lift.



	TABLE 3-1: LED FUNCTIONS		
LED	FUNCTION	DESCRIPTION	
12	DEPLOY SOLENOID (EXTEND SCISSORS)	On when the DEPLOY function is activated. Indicates that function valve (SV1) and motor solenoid are energized when the DEPLOY button is being depressed. Lift must be at stow level and platform folded with the handrails locked in. This LED will come off when the lift is extended.	
13	DOWN SOLENOID	On when the DOWN function is activated. Indicates that power is applied to the pres- sure switch. If inner barrier is down, power applied to SV4 and motor solenoid to raise barrier. If inner barrier is up, power is applied to valve SV3 and drain valve SV6. Lift must be fully deployed with the outer barrier in the vertical and locked position.	
14	IN BAR UP	On when the inner barrier switch is activated to lower barrier. Indicates that function valve SV4 and SV6 are energized. Lift must be fully deployed with the outer barrier in the vertical and locked position.	
15	TWS	On when the lift is powered up. It indicates that the Threshold Warning System (TWS) is active. This LED will only come off when the lift is at vehicle floor level and the inner barrier is down. It will come back on after activating the DOWN function and the inner bar is rising.	
16	COUNTER On when it counts one cycle. A cycle starts when the lift is fully deployed and raised to vehicle floor level where the inner barrier is lowered then raised. The lift must then be lowered to floor level where the outer barrier is lowered then raised. The lift must then be raised to stow level and be stowed to be counted as one cycle.		
17	PUMP SOLENOIDOn when the DEPLOY, UP, or STOW functions are activated. Indicates that any of the function valves and the motor solenoid have been energized when any of these buttons are being depressed. When activating the UP function, the lift must be fully deployed with the outer barrier in the vertical and locked position. When activating the DEPLOY or STOW functions the platform must be folded with the handrails locked in. This LED will come off when the lift has been fully stowed, deployed or when the lift has reached vehicle floor height.		
18	UP SOLENOID On when the UP function is activated. Indicates that the function valve (SV3) and mo- tor solenoid is energized when the UP button is being depressed. Lift must be fully deployed with the outer barrier in the vertical and locked position.		
19	STOW SOLENOID (RETRACT SCISSORS)	On when the STOW function is activated. Indicates that function valve (SV2) and mo- tor solenoid is energized when the STOW button is being depressed. Lift must be at stow height and platform must be folded with the handrails locked in. This LED will come off when the lift is stowed.	
21	ABOVE STOW On when lift is above stow level. This LED will come off when the lift is below stow level.		
22	STOW LEVEL	On when lift is at stow level. This LED will come off when the lift is above stow level, or below stow level.	
23	FLOOR LEVEL	On when the lift reaches vehicle floor level. This LED will come off when the lift is lowered.	
24	SCISSOR EXTEND	On when the scissors are extended. This LED will come off when the scissors are retracted.	
25	PLATFORM STOW	On when the platform is folded with the handrails locked in. This LED will come off when the handrails are unlocked.	
26	OUT BAR UP	On when the lift is fully deployed and the outer bar is in the vertical and locked position. This LED will come off when the outer bar is lowered.	

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TABLE 3-1: LED FUNCTIONS

TABLE 3-1: LED FUNCTIONS			
LED	LED FUNCTION DESCRIPTION		
27	27IN BAR UPOn when the inner barrier is in the vertical position. This LED will come off when the lift is at vehicle floor level and the inner bar has been lowered.		
43	43PRESSURE SWITCHOn when there is pressure on the inner barrier or when it is in the vertical position. This LED will come off when the lift is at vehicle floor level and the inner barrier is in the lowered position.		
44	44 PEND UP On when the UP function is activated.		
45	45 PEND DOWN On when the DOWN function is activated.		
46	46 PEND DEPLOY On when the DEPLOY function is activated.		
47	47 PEND STOW On when the STOW function is activated.		
49	49BELOW STOWOn when the lift is below stow height. This LED will come off when the lift is at stow height or above stow height.		
50	50 DOOR CLOSE On when the bus access door is closed.		
	END OF TABLE		

6. SPECIFIC CONDITION DIAGNOSTIC TABLES

TABLE 3-2: PRELIMINARY INSPECTIONS						
DP1	PRELIMINARY INSPECTION	RESULT	ΑCTION ΤΟ ΤΑΚΕ			
DP1-1	Standard maintenance					
	 Clean machine to prevent buildup of de- bris. 	ок	No fault found. Conditions are satisfactory.			
	 Inspect fluid levels and fill as required. Ensure that equipment has been correctly lubricated and maintained. 	Not OK	Conditions are not satisfactory – perform standard maintenance and retest problem.			
DP1-2	Insp	ect recent wo	rk done			
	Inspect recent work performed including re-	ОК	No fault found. Conditions are satisfactory.			
Α.	pairs or new installations (e.g. radio). En- sure that work has not corrupted or altered existing function configurations.	Not OK	Conditions are not satisfactory – correct condi- tion and retest problem.			
DP1-3	Inspect problem area					
	Visually inspect problem area for obvious	ОК	No fault found. Conditions are satisfactory.			
	obstructions, fluid leaks, disconnected or broken wires and hoses or other obvious conditions such as broken or misaligned components.	Not OK	If component or condition (e.g. fluid leak) is found, investigate and repair as required. Retest.			
DP1-4	Confirm electrical power to lift					
	Confirm that interlock conditions are set	ок	No fault found. Conditions are satisfactory.			
	• Transmission in NEUTRAL or PARK.					
	Parking brake ON.					
Α.	• Engine set on HIGH IDLE.		Correct as required. If problem persists – go to			
	Passenger door open.	Not OK				
	 Follow the interlock instructions provided by the vehicle manufacturer. 		DP1-4B.			
		OK	No fault found. Conditions are satisfactory.			
В.	Check that control power is ON		Check components (i.e. switches) and wiring be- tween vehicle battery and lift; check all ground circuits for lift; and, check circuit breaker on circuit board. Repair as required.			
D.	Check that control power is ON.	Not OK	 If LED is on and lift still does not operate – go to DP1-4C. 			
			 If LED is not on and power is present at "POWER IN" connection on circuit board, re- place circuit board. 			

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TABLE 3-3: PRELIMINARY INSPECTIONS (CONT)					
DP1	PRELIMINARY INSPECTION	RESULT	ACTION TO TAKE		
DP1-4	Confirm electrical power to lift (cont)				
	Check that power is on.	ОК	No fault found. Conditions are satisfactory.		
			Check the lift control circuit components and wiring between vehicle battery and lift. Repair as required.		
C.		Not OK	 If LED is ON and lift still does not operate- go to DP1-5. 		
			 If LED is NOT ON and power is present at "RLY8 ENABLE" on circuit board, replace circuit board. 		
DP1-5	Confirm operation of hydraulic system				
	Check function valve manual bypass set-	OK	No fault found. Conditions are satisfactory.		
Α.	tings. For normal operation, all valves (SV1, SV2, SV3, SV4 and drain valve) must be in the closed position.	RESULT ACTION TO T/ ACTION TO T/ ont) OK No fault found. Conditions a Check the lift control circuit of wiring between vehicle batte as required. Not OK If LED is ON and lift still of go to DP1-5. If LED is NOT ON and por "RLY8 ENABLE" on circu circuit board. stem Valves Not OK Reset valves and retest the for "RLY8 ENABLE" on circu circuit board. nanual ument OK Problem is electrical. Go to Problem is electrical. Go to Problem is mechanical/hydra ponents- Repair as required Not OK Problem is mechanical/hydra ponents- Repair as required. NO Go to DP1-6D. NO Go to DP1-6C. YES Go to DP1-6C. NO Fi power present, test cont between circuit board and as required. NO YES NO If power not present, boar Power present ground is good run – motor is bad – replace of paired by qualified repair shop No power out from motor soler bad – replace. NO YES NO No power out from motor soler bad – replace. NO If wiring OK – board is bad Coil is not energized. Check ti is not frozen open. Place a pre line between the pressure port line between	Reset valves and retest the functions.		
	Perform all functions using the manual	ОК	Problem is electrical. Go to DP1-6.		
В.	operation procedures section of document 32DBLE03.	Not OK	Problem is mechanical/hydraulic. Test components- Repair as required.		
DP1-6	Check operation of hydraulic power pack	(
A.	Does power at motor run when function	YES	Go to DP1-6D.		
	switch is activated.	RESULT ACTION TO TAKE nt) OK No fault found. Conditions are satt OK No fault found. Conditions are satt Not OK If LED is ON and lift still does n go to DP1-5. If LED is NOT ON and power is "RLY8 ENABLE" on circuit board circuit board. stem s set- valves valve) OK Not OK Reset valves and retest the function ponents- Repair as required. er pack ion YES Not OK Go to DP1-6D. NO Go to DP1-6D. Ion YES Go to DP1-6D. Ion YES Go to DP1-6D. Ion YES Go to DP1-6D. Ion YES Go to DP1-6D. Ion YES Go to DP1-6D. Ion YES Go to DP1-6D. Ion YES Ion YES Ion YES	Go to DP1-6B.		
		YES	Go to DP1-6C.		
В.	Confirm power at motor solenoid when function switch is activated.	NO	between circuit board and solenoid – repair		
		RESULTACTIONOKNo fault found. Contraving between vehas required.Not OKIf LED is ON and go to DP1-5.If LED is NOT OU "RLY8 ENABLE" circuit board.OKNo fault found. Contrave "RLY8 ENABLE" circuit board.OKNo fault found. Contrave "RLY8 ENABLE" circuit board.OKNo fault found. Contrave "Reset valves and reserve Problem is electricated.Not OKReset valves and reserve Problem is mechani ponents- Repair asVESGo to DP1-6D.NOGo to DP1-6B.YESGo to DP1-6C.NOIf power present paired by qualified reserve paired by qualified reserve paired by qualified reserve paired by qualified reserve No power out from reserve paired by qualified reserve No procedures and observe is not frozen open. Fine between the preserve the hydraulic manifold procedures and observe is present, drain valv If valve OK – go to S	• If power not present, board is bad – replace.		
C.	Test motor solenoid. When function switch is activated and	YES	Power present ground is good by motor does not run – motor is bad – replace or have motor re- paired by qualified repair shop.		
	power is present to coil, text power from coil is present at motor.	RESULT ACTION TO TAKE it) OK No fault found. Conditions are satisfa OK No fault found. Conditions are satisfa Not OK Check the lift control circuit componer wiring between vehicle battery and lift as required. Not OK If LED is ON and lift still does not o go to DP1-5. If LED is NOT ON and power is pre- "RLY8 ENABLE" on circuit board, r circuit board. tem	No power out from motor solenoid – solenoid is bad – replace.		
	Test drain valve coil.	YES	connections to drain valve coil. Repair as re-		
	Confirm that coil is NOT energized when		• If wiring OK – board is badreplace.		
D	the following functions are active: deploy, stow, up, in barrier up. Confirm that coil is energized when the following functions are active: down, stow (if not at stow height).	NO	Coil is not energized. Check that valve cartridge is not frozen open. Place a pressure guage in line between the pressure port of the pump and the hydraulic manifold. Use the manual operation procedures and observe pressure. If no pressure is present, drain valve is bad – replace.		
			If valve OK – go to Specific Condition Diagnostic.		
	E	ND OF TABLE			



	TABLE 3-4: DP2 CONDITION DIAGNOSTICS						
DP2	2 LIFT DOES NOT DEPLOY RESULT ACTION TO TAI						
DP2-1	1 Perform preliminary inspection						
Α.	Follow procedures listed under DP1.	ОК	No fault found. Conditions are satisfactory.				
		Not OK	Conditions are not satisfactory – correct condi- tion and retest.				
В.	Confirm location of lift.	YES	Problem is electrical. Go to DP1-6.				
	 Is lift at stow height? Or does lift raise/lower to stow height then stop? 	NO	Lift is above stow height and does not auto- matically lower to stow height – go to DP5.				
			 Lift is below stow height and does not auto- matically raise to stow height – go to DP6. 				

TABLE 3-5: DP3 CONDITION DIAGNOSTICS							
DP3	LIFT DOES NOT STOW RESULT ACTION TO TAKE						
DP3-1	Perform preliminary inspection						
Α.	Follow procedures listed under DP1 OK No fault found. Conditions are satisfactory						
В.	Confirm location of lift.	Not OK	Conditions are not satisfactory - correct condi-				
	1. Lift must be fully deployed.		tion and retest.				
	2. Lift must be above stow height						
	3. Outer barrier is in the vertical position.						

TABLE 3-6: DP4 CONDITION DIAGNOSTICS							
DP4	LIFT DOES NOT RAISE RESULT ACTION TO TAKE						
DP4-1	Perform preliminary inspection	Perform preliminary inspection					
Α.	Follow procedures listed under DP1	ОК	No fault found. Conditions are satisfactory.				
В.	Confirm location of lift.	Not OK	Conditions are not satisfactory – correct condi-				
	1. Lift must be fully deployed.		tion and retest.				
	2. Lift must be above stow height						
	3. Outer barrier is in the vertical and locked position.						

TABLE 3-7: DP5 CONDITION DIAGNOSTICS							
DP5	LIFT DOES NOT LOWER RESULT ACTION TO TAKE						
DP5-1	Perform preliminary inspection						
Α.	Follow procedures listed under DP1.	ОК	No fault found. Conditions are satisfactory.				
В.	Confirm location of lift. 1. Lift must be fully deployed.	Not OK	Conditions are not satisfactory – correct condi- tion and retest.				
	2. Outer barrier is in the vertical and locked position.						

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TABLE 3-8: DP6 CONDITION DIAGNOSTICS							
DP6	INNER BARRIER DOES NOT LOWER RESULT ACTION TO TAKE						
DP6-1	Perform preliminary inspection	form preliminary inspection					
Α.	Follow procedures listed under DP1	OK	No fault found. Conditions are satisfactory.				
В.	Confirm location of lift.	Not OK	Conditions are not satisfactory - correct condi-				
	1. Lift must be fully deployed.		tion and retest.				
	Outer barrier is in the vertical and locked position.						

TABLE 3-9: DP7 CONDITION DIAGNOSTICS					
DP7	NON-STANDARD PERFORMANCE	ACTION TO TAKE			
NOTE: T	he following are conditions that may occur during normal opera	tion that indicate a performance concern.			
DP7-1	Lift continuously cycles UP and DOWN				
Α.	Vertical adjustment of SW4 and/or SW5 switches is incor- rect.	Refer to "Stow Switch Adjustment Procedure" in section G – repair as required.			
В.	Horizontal adjustment of SW4 switch is incorrect.				
C.	STOW LEVEL switch or harness is bad.				
DP7-2	Lift lowers to bottom when stow switch is pressed				
Α.	Adjustment of SW4 and/or SW5 switches is incorrect.	Refer to "Stow Switch Adjustment Procedure" in section G.			
DP7-3	Lift moves in a jerky fashion or responses are "spongy"				
Α.	Air is present in the system. NOTE: Foamy oil flowing out of the fill hole also indicates air in the system.	Refer to the bleeding procedures in section E.			
DP7-4	Pump does not operate in cold weather				
Α.	Water is in the reservoir. The water can freeze and cause pump not to work until the water thaws.	Drain hydraulic system and reservoir and fill with clean new hydraulic fluid.			
DP7-5	Cylinder does not extend				
Α.	Pump relief pressure is too low.Additional symptoms are:Motor RPM is faster than normal.	This occurs because the adjusting screw has moved or dirt is trapped between the seat and the ball or cone of the valve. To correct:			
	Excessive turbulence in the reservoir.	 Place a pressure gauge in line with the pressure line to the manifold. Loosen the jamb nut and turn the adjusting screw clockwise and watch the gauge; if the pres- sure rises, turn screw until the pressure reaches 2000 psi. Tighten jamb nut. 			
		• If the pressure does not increase, turn the adjusting screw counter clockwise all the way out; energize the pump to "flush" the dirt past the seat. After flushing, turn screw until the pressure reads 2000 psi. Tighten jamb nut.			
	END OF TABLE	·			



E. HYDRAULIC SYSTEMS REPAIRS

1. REPLACING THE BARRIER CYLINDER

The barrier cylinder is located beneath the rear platform. To remove:

- Lift platform to its maximum height.
- Lower the inner barrier. The cylinder and connecting pins are now accessible from below the platform.
- SLOWLY loosen and remove hose from cylinder. Plug open port and hose end.
- Remove cylinder from unit.
- Re-install new cylinder and connect hose.

2. BLEEDING THE BARRIER CYLINDER

When replacing the barrier cylinder or hose, it is necessary to bleed the system to remove air from the system.

- Inner barrier should be down.
- If hose is connected "crack" open hose fitting at cylinder. If hose is not installed, loosely hand tighten hose fitting onto cylinder.
- Using the manual bypass, open the barrier valve (SV4). Open the valve by screwing the knob clockwise.
- Observe the cylinder fitting while operating the hand pump. When air no longer escapes, tighten the fitting on the cylinder.
- Relieve the pressure by slowly opening the manual drain valve.
- Close the barrier valve (SV4) and the manual drain valve.
- Check and fill reservoir as required.

3. REPLACING THE DEPLOY/STOW CYLINDERS

- Manually extend lift and lower platform. Manual operation instructions can be found on page 7.
- Remove access panel in front frame.
- Relieve the system pressure by opening valves SV1, SV2 and the manual drain valve.
- SLOWLY loosen and remove hoses from cylinder. Plug all open ports and hoses.
- Remove cylinder from unit.
- Close all valves opened.
- Re-install new cylinder and connect hose.

4. BLEEDING THE DEPLOY/STOW CYLINDERS

- Fill pump reservoir, check and fill during this procedure.
- Deploy lift. Remove inspection cover.
- Disconnect cylinder shafts from scissor assembly.
- Turn valve SV2 to bypass.
- Refer to Figure 3-1, "B" stowed. Collapse both cylinders by slowly manually pumping.
- Refer to Figure 3-1, "B" stowed. Loosen hose fitting.
- Fasten shaft of cylinders so they do not extend.
- Turn valve SV1 to bypass; slowly manually pump until no air is in the line. Tighten fitting F1.
- Unfasten cylinders. Loosen fitting F2 ("B" stowed), manually pump until cylinders are fully extended. Turn valve SV1 to normal position. Tighten fitting F2.
- Fasten cylinder shaft ends so they do not retract. Loosen fitting F2 ("A" deployed). Turn SV2 to bypass and slowly manually pump until all the air is out of the line. Tighten fitting F2. Turn SV2 to normal position.
- Attach shaft ends to scissor assembly. Check fluid level and fill if needed.



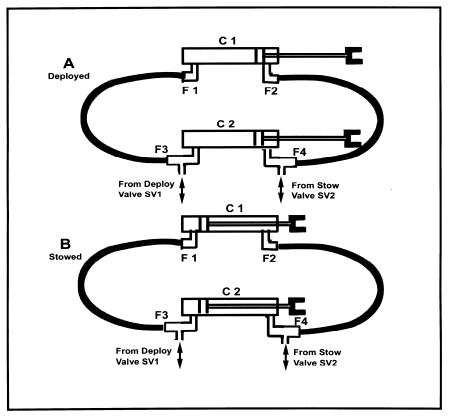


FIGURE 3-1: BLEEDING STOW/DEPLOY CYLINDERS

5. REPLACING THE LIFT CYLINDERS

To replace the lift cylinders, the procedure requires removal of the platform assembly. An overhead hoist or similar device is required for this operation.

- Disconnect the electrical power.
- Using the manual operations, extend the lift out of the vehicle.
- Place 4-inch blocks under the platform area. Use a quantity that will evenly support the platform assembly.
- Lower the platform down onto the blocks. Continue to lower until there is slack in the lift chain.
- Remove the chain guards.
- Disconnect the lift chain from both sides. Lift the chain off of the pulley and lay over the front frame.
- Disconnect the over the pulley cable for the barrier sensor and position out of way on the platform.
- Disconnect the over the pulley hose for the barrier cylinder. Plug open port and hose end. Position hose over front frame.
- Using the manual raise operation, lift the intermediate frame up until the slide channels on the intermediate frame clears the slide bars mounted on the inner side plates of the platform assembly.
- Move the platform assembly out of the way.
- Relieve the hydraulic pressure in the lift cylinders. Open the raise/lower valve (SV3) then slowly open the manual drain valve. The cylinders will lower to the collapsed position. It may be necessary to press down on the intermediate barrier. Close all the valves when the cylinders are collapsed. Use caution to not bind the lift chains or hose for the barrier cylinder.
- Disconnect the hose(s) from the lift cylinder(s) and plug the open ports and hose ends.
- Mark the location of the pulleys and remove cylinder from unit.
- To reinstall the cylinders and platform assembly proceed to section F.

6. SETTING THE RELIEF VALVE PRESSURE

- Place a pressure gauge in line with the retract port of the hydraulic manifold.
- Remove the cap from the relief valve.
- Position the platform in the stow height position.
- Manually operate the retract function while observing the gauge. When the lift is fully retracted, pressure should read 650 psi ± 20 psi.
- If pressure is not within limits, turn the adjustment screw with a 1/4 in. Allen wrench. Turning the screw clockwise increases the setting, turning the screw counter clockwise reduces the setting.
- When the correct pressure is established, replace the cap on the valve.
- Remove gauge.

7. HYDRAULIC PUMP AND RESERVOIR

The reservoir and filter may be serviced while the unit is mounted in the vehicle.

- Position the lift fully extended and down. This will collapse the cylinders.
- Disconnect vehicle battery. This will disconnect power to the lift.
- Manually open the function valves (SV1, SV2, SV3 and SV4) and the manual drain valve. This is to relieve pressure in the system.
- Disconnect the vacuum hose from the hand pump. Place the end of the hose in an appropriate container and drain the oil from the reservoir. Plug the open port and cap the hose end when the reservoir is drained.

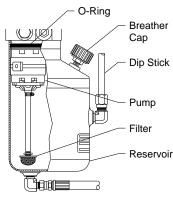
NOTE: Clean spills immediately.

- Remove dipstick assembly.
- Remove attaching hardware and remove reservoir from assembly. Use care to not damage the reservoir o-ring.
- Empty and clean reservoir. Set reservoir aside.
- Remove filter and clean or replace as required.
- Lightly lubricate o-ring and Install reservoir.
- Install dipstick assembly.
- Attach the vacuum hose.
- Fill the reservoir with Pentosin G002000. Capacity is approximately 6 quarts.
- Follow instructions in this section and bleed the system. Each hydraulic cylinder circuit must be done.
- Fill reservoir as required after bleeding system.

F. PLATFORM INSTALLATION

Steps 1 through 8 must be completed before attaching the chain.

- If not previously done, slide the intermediate frame into the front frame. This is done from the top of the front frame.
- Support the intermediate frame with jacks or an overhead lift.
- Attach fittings to cylinders. This must be done before the cylinders are installed.
- Attach the lift cylinders to the frames. The pulleys must be installed at this time.
- **NOTE:** The chain pulleys are the same. The metal pulley for the wire harness goes on the right side; the nylon pulley for the barrier cylinder hose goes on the left side. The two pulleys cannot be switched.
- Lower the intermediate frame until the cylinders are completely collapsed.
- Attach hose to fittings but do not tighten fitting completely. Leave the hose fitting "cracked open". This is to bleed the system.
- Clamp the frames together to prevent movement.
- Bleed the lift system by using the manual lift procedure: Open SV3 by screwing the knob clockwise then operate the hand pump until air no longer escapes from the cracked fitting. Tighten the hose fitting.



Suction Line Hand Pump

FIGURE 3-2: PUMP AND RESERVOIR



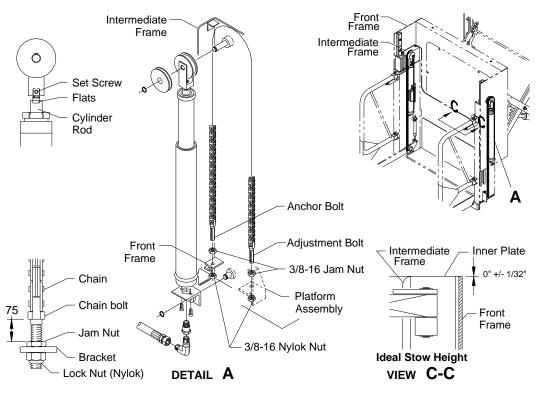


FIGURE 3-3: PLATFORM INSTALLATION

1. LIFT CHAIN INSTALLATION AND ADJUSTMENT

- Refer to **Figure 3-3.** If previously removed, place a jam nut onto the chain anchor bolt. Set the jam nut ³/₄" from the shoulder of the bolt.
- **NOTE:** The chain anchor bolt and chain adjustment bolt are identified by location. The anchor bolt attaches to the front frame, the adjustment bolt attaches to the inner side plates of the platform assembly.
 - Place the bolt into the bracket on the front frame. Coat threads with anti-seize compound then secure using a 3/8-16 Nylock nut. Torque nut to 20 ft-lb.
 - Position chain up and over back of front frame.
 - Using the manual lift procedure, raise the intermediate frame high enough to allow the platform assembly (with the inner side plates attached) to slide under the intermediate frame.
 - Close SV3 and open the drain valve to lower the intermediate frame onto the slides of the inner panels until the lift cylinders are completely collapsed. It may be necessary to physically press down on the intermediate frame. Close the drain valve when the frame is down.
 - Route the chains over the pulleys and down. Ensure that the chain does not twist or kink. It must hang straight.
 - Using an overhead crane or other suitable device, physically lift the platform assembly up until the chain adjustment bolt hangs below the brackets on the inner panels.
 - Place a jam nut on the bolt and run up to the shoulder on the bolt.
 - Place the bolt through the bracket and place a standard 3/8-16 nut onto the bolt.
 - Using the manual lift procedures, raise the platform until the platform hangs on the chains.

The following procedures should be followed on the right side first, and then repeated as necessary on the left side.

- Using the manual operation, raise the platform until the top of the front and intermediate frames are flush.
- Alternately tighten the standard nuts on the adjusting bolts until the top of the platform assembly is flush with the top of the front frame. This is identified as the absolute stow height.
- Ensure that chains are not twisted then tighten jam nut onto bracket.
- Raise and lower the platform 2 or 3 times and check that the platform assembly is flush when the intermediate and front frames are flush. Repeat steps 19 through 22 until the absolute stow height is repetitive.



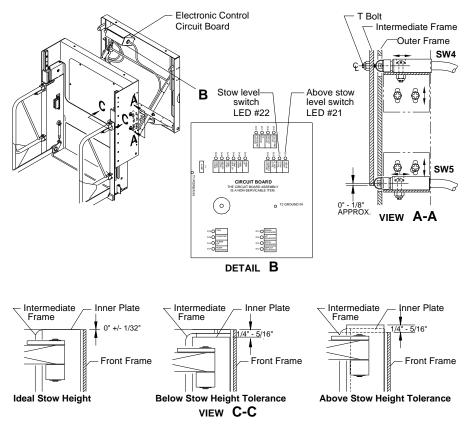
- Support the platform assembly and remove the standard nuts on the adjustment bolt. Coat threads with antiseize compound then secure using a 3/8-16 Nylock nut. Torque nut to 20 ft-lb.
- Route barrier hose over pulley and attach to block on inner side plate.
- Route the outer barrier sensor cable over pulley and attach connector.
- Install chain covers.
- Follow the procedures on page 9 to bleed the barrier cylinder.
- Connect electrical power.

G. STOW SWITCH ADJUSTMENT PROCEDURE (SW4 AND SW5)

WARNING

THIS PROCEDURE REQUIRES THAT POWER IS SUPPLIED TO THE CONTROLS AND ALLOWS THE LIFT TO OPERATE IF THE CONTROL PUSH BUTTONS ARE ACTIVATED. MOVING COMPONENTS CAN CAUSE SERIOUS INJURY. KEEP BODY PARTS AWAY FROM MOVING COMPONENTS.

Two roller plunger limit switches are used to determine when the platform is at the correct stow height. These are located on the right side on the back of the front frame. The upper switch (SW4) contacts a "T" bolt located on the intermediate frame to determine if the platform is at the correct stow height. The lower switch (SW5) is used to determine if the platform is above or below the correct stow height. For the below stow height condition, the switch contacts the intermediate frame. For the above stow height condition, the switch does not make contact.





1. ADJUSTMENT OF STOW HEIGHT SWITCHES (SW4 AND SW5)

- With the lift fully deployed, position the platform at the ideal stow height using the manual operation procedures described in 32DBLE03.
- The ideal stow height is when the top edges of the platform side plates, intermediate frame and front frame align. A tolerance of +/- 1/32" (.8mm) is acceptable.
- Remove the cover of the control circuit board. This is necessary to be able to monitor the LED indicators on the board.



- Loosen the screws holding the mounting bracket for the upper switch (SW4). Vertically align the SW4 switch with the "T" bolt located on the intermediate frame. Tighten attaching hardware.
- Loosen the screws holding the mounting bracket for the lower switch (SW5). Visually align the SW5 switch vertically within 1/8" (3mm) or less of the bottom edge of the intermediate frame.
- With power supplied to the lift controls, loosen the screws holding the SW4 switch and move switch until the roller makes contact with the "T" bolt. Continue to move the switch until LED #22 illuminates, then secure switch in this position.
- Disconnect the spade connectors for black and blue wires going to the lower switch (SW5). Connect a continuity tester to the black and blue leads of the switch. Move the switch against the intermediate frame. Then continue to adjust the switch in until the contacts are closed.
- Remove the tester and reconnect the spade connectors.
- Using the manual operation procedures, raise the lift 3"-4".
- With power on, slowly lower the lift while observing LED #22. Stop the lift when LED #22 illuminates.
- Measure the distance between the top of the inner frame and the top of the outer frame. The distance should be 1 /4" 5/16" (6.4mm 8mm).
- ◆ Using the manual operation procedures, lower the lift 3"-4" (75mm 100mm).
- With power on, slowly raise the lift while observing LED #22. Stop the lift when LED #22 illuminates.
- Measure the distance between the top of the inner side plate and the top of the front frame. The distance should be 1 /4" 5/16" (6.4mm 8mm).
- If the measurements are within range, continue with the next step. If measurements are not within range, adjust SW4 and retest until measurements are within range.

NOTE: Moving the switch toward the "T" bolt will reduce the distance measured in steps 8 and 11. Moving the switch away from the "T" bolt will increase the measurements in steps 8 and 11.

- Tighten attaching hardware for SW4 and SW5 switches.
- Slowly retract lift while observing LED #24. Stop the lift when LED #24 goes out.
- Using the manual operation procedures, lower the lift 3"-4" (75mm 100mm).
- Using the pendant control, activate the DEPLOY push button. The platform should rise to the stow height, and then deploy. If the lift does not perform correctly, refer to the troubleshooting section.

If the lift does not stop at the stow height, do not allow the lift to continue to rise. Serious damage can occur to the lift and vehicle.

- Slowly retract lift while observing LED #24. Stop the lift when LED #24 goes out.
- Using the manual operation procedures, raise the lift 3"-4" (75mm 100mm).
- Using the pendant control, activate the DEPLOY push button. The platform should lower to the stow height, and then deploy. If the lift does not perform correctly, refer to the troubleshooting section.

If the lift does not stop at the stow height, do not allow the lift to continue to lower. Serious damage can occur to the lift and vehicle.

2. COMMON SWITCH MISALIGNMENT PROBLEMS

If SW4 and/or SW5 switches are misaligned, the following problems can occur when the DEPLOY switch is activated:

- Lift lowers and raises in a continuous cycle:
 - SW5 switch is cycling between "above stow height" and "below stow height" before lift reaches stow height.
 - Vertical adjustment of SW4 and/or SW5 switches is incorrect.
 - SW4 switch is not being activated at stow height.
 - Horizontal adjustment of SW4 switch is incorrect.
 - Switch is bad.
 - Lift lowers to bottom:
- SW4 and SW5 switches are both out of alignment.



H. ELECTRICAL DIAGRAMS

1. DIAGRAM LABELS

POWER DISTRIBUTION

24VDC - Power supply for the Wheelchair Lift Controller and Pump Motor. +24VDC - Power from Wheelchair Lift Controller to Control Panel, Indicator Switches and TWS. GROUND - Electrical ground.

*Power lift protected by 5 Amp Circuit Breaker on Printed Circuit Board.

REQUEST SIGNALS

<u>DOWN ATTEMPT</u> - Signal from Control Panel to Wheelchair Lift Controller requesting lower function. <u>DEPLOY ATTEMPT</u> - Signal from Control Panel to Wheelchair Lift Controller requesting deploy function. <u>STOW ATTEMPT</u> - Signal from Control Panel to Wheelchair Lift Controller requesting stow function. UP ATTEMPT - Signal from Control Panel to Wheelchair Lift Controller requesting raise function.

STATUS SIGNALS

SCISSORS EXTENDED INDICATOR SW1 - Normally open. Switch is activated when the scissors are extended.

<u>OUTER BARRIER INDICATOR SW2</u> - Normally open. Switch is activated when the outer barrier is in the vertical and locked position. Platform must be fully deployed with outer barrier in the vertical and locked position for the up and down functions to work.

PRESSURE SW3 - Normally open. Switch is activated when there is pressure on the inner barrier or when the inner bar is in the vertical position.

STOW LEVEL INDICATOR SW4 - Normally open. Switch is activated when the lift is at stow level. ABOVE/BELOW STOW LEVEL INDICATOR SW5 - Normally open when the lift is below stow level. It is normally closed when the lift is above stow level.

INNER BARRIER UP INDICATOR SW6 - Normally open. Switch is activated when the inner barrier is in the vertical position.

PLATFORM STOWED INDICATOR SW7 - Normally open. Switch is activated when the platform is folded and the handrails locked.

FLOOR LEVEL INDICATOR SW8 - Normally open. Switch is activated when the lift is at vehicle floor level.

DRIVING SIGNALS

COUNTER OUT - COUNTER is pulsed to 24V to register one cycle count.

<u>DEPLOY</u> - Signal from Wheelchiar Lift Controller to extend solenoid valve (DEPLOY SV1). <u>DEPLOY SV1</u> - Electrically operated hydraulic valve which controls the extend movement of the scissors. Wheelchair lift scissors extend when the solenoid is energized. Platform must be folded and handrails locked.

STOW - Signal from Wheelchair Lift Controller to retract solenoid valve (STOW SV2).

<u>STOW SV2</u> - Electrically operated hydraulic valve which controls the retraction movement of the scissors. Wheelchair lift scissors retract when the solenoid is energized. Platform must be folded and handrails locked.

UP - Signal from Wheelchair Lift Controller to the raise solenoid valve (UP SV3).

UP SV3 - Electrically operated hydraulic valve which controls the raise movement of the lift.

Platfrom must be fully deployed with the outer barrier in the vertical and locked position.

<u>DOWN</u> - Signal from the Wheelchair Lift Controller to inner bar (SV4) if inner barrier is down or raise solenoid valve (SV3) and pump drain solenoid valve (SV6) if inner barrier is up.

<u>INNER BAR SV4</u> - Electrically operated hydraulic valve which controls the raise movement of the inner barrier.

PUMP DRAIN SV6 - Electrically operated hydraulic valve which drains.

DEVICES

<u>TWS</u> - Threshold Warning System. <u>M</u> - Hydraulic Pump Motor. Produces hydraulic pressure to raise wheelchair lift. COUNTER - Registers cycle count.

FIGURE 3-5: DIAGRAM LABELS

2. WIRING DIAGRAM

The baylift private use wheelchair lift electrical schematic is divided across the following pages. An internal schematic for the controller is not shown because this part is serviced by the factory.



ELECTRICAL SYMBOLS LEGEND								
	PRESSURE SWITCH				SWITCH CONTACTS - CLOSED			
	SPDT RELAY	-0 SPDT SWITCH		INDICATOR LIGHT	 NORMALLY CLOSED NORMALLY OPEN 	NOT CONNECTED CONNECTED		

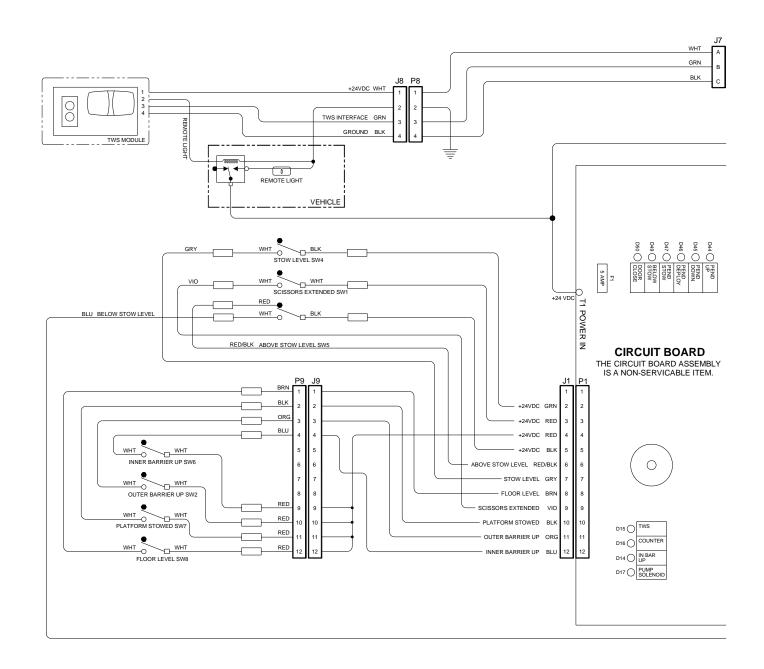


FIGURE 3-6: ELECTRICAL SCHEMATIC PAGE 1



WIRE COLOR CODES						
BRN-	BROWN	RED-	RED	GRY-	GRAY	
BLK-	BLACK	PUR-	PURPLE	VIO-	VIOLET	
ORG-	ORANGE	WHT-	WHITE	YEL-	YELLOW	
BLU-	BLUE	GRN-	GREEN			

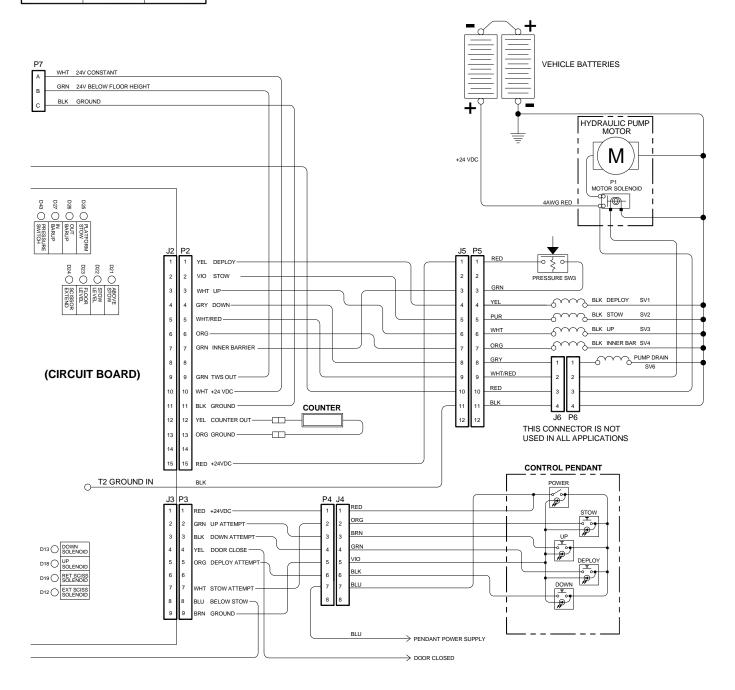


FIGURE 3-7: ELECTRICAL SCHEMATIC PAGE 2

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I. HYDRAULIC DIAGRAM

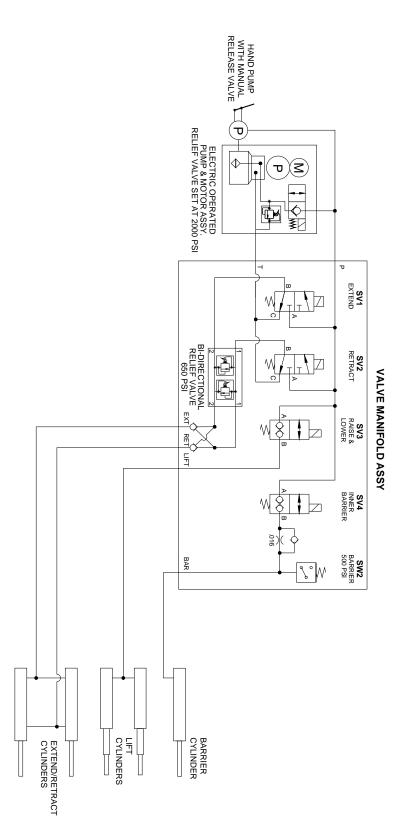


FIGURE 3-8: HYDRAULIC DIAGRAM



IV. SPARE PARTS

his chapter contains parts illustrations and lists for the Ricon BayLift Public use wheelchair lift. Each exploded view of a major lift assembly shows smaller assemblies, components, and kits referenced with numbers. The exploded view is followed by an associated parts list that contains the reference numbers, part descriptions, quantities required for the major assembly shown, and Ricon part numbers.

- **NOTE:** Locate the part or assembly on an exploded view, and note its reference number. Find this number on the associated parts list (following page), and order the Ricon part number in the far right column.
- **NOTE:** Most items that are described as "kits" contain a single part (plus hardware). Therefore, you may need to order more than one kit if the part is used more than once on the assembly shown.
- **NOTE:** Small, inexpensive hardware items are supplied in a minimum quantity of ten, and are packaged in a bag. A single bag may provide more parts than you need, or you may need multiple bags when working on a complex assembly. The QTY/ASSY column indicates how many individual parts are used on the assembly shown; you will need to determine the number of bags required for your task.
- **NOTE:** Most kits contain a single part (plus hardware). Therefore, you may need to order more than one kit if the part is used more than once on a major assembly.

BAYLIFT MODEL AND KIT NUMBERS

PRODUCT NUMBER	S5510-XXXXXXX (first model in number sequence)
DOCUMENTATION KIT NUMBER	44277

PARTS DIAGR	RAM	PAGE
FIGURE 4-1	BAYLIFT PUBLIC USE DECALS	4-2
FIGURE 4-2	BAYLIFT MANIFOLD ASSEMBLY (SSBF3761-1)	4-4
FIGURE 4-3	BAYLIFT PUMP ASSEMBLY (SSBF3761-1)	4-6
FIGURE 4-4	BAYLIFT MANIFOLD & PUMP ASEMBLIES	4-8
FIGURE 4-5	BAYLIFT ELECTRICAL COMPONENTS	4-10
FIGURE 4-6	BAYLIFT PENDANT ASSEMBLY	4-12
FIGURE 4-7	BAYLIFT PLATFORM ASSEMBLY SHEET 1	4-14
FIGURE 4-8	BAYLIFT PLATFORM ASSEMBLY SHEET 2	4-16
FIGURE 4-9	BAYLIFT EXTEND/LIFT MECHANISM ASSEMBLY	4-18
FIGURE 4-10	BAYLIFT HYDRAULIC ASSEMBLY	4-20
FIGURE 4-11	BAYLIFT PUBLIC USE HANDRAILS ASSEMBLY	
APPENDIX	BAYLIFT SPECIFICATIONS	4-28

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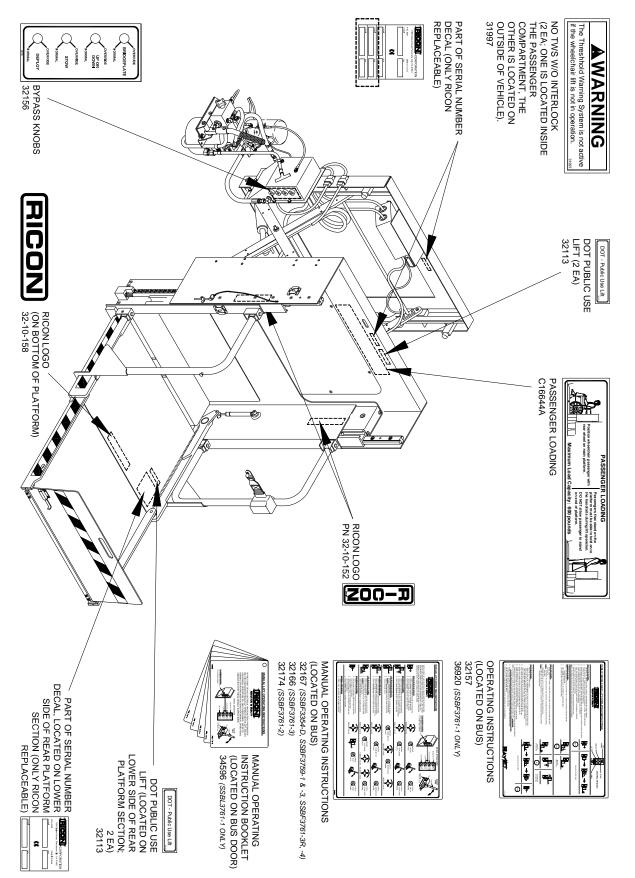


FIGURE 4-1: BAYLIFT PUBLIC USE LIFT DECAL LOCATIONS

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	FIGURE 4-1: PUBLIC USE DECALS					
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.		
1	DECAL, "RICON", HORIZ, 10.5 X 2.75 BLK	1		32-10-158		
2	DECAL, "RICON", VERT, 2.5 X 8.5,SLVR	2		32-10-152		
3	DECAL, DOT, PUBLIC USE LIFT	2		32113		
4	DECAL, PASSENGER LOADING, FRONT FRAME	1		C16644A		
5	DECAL, FUNCTION VALVE	1		32156		
6	DECAL, SERIAL#, "CE" UNIVERSAL	1		32-10-166		

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.



- MARCH 2014

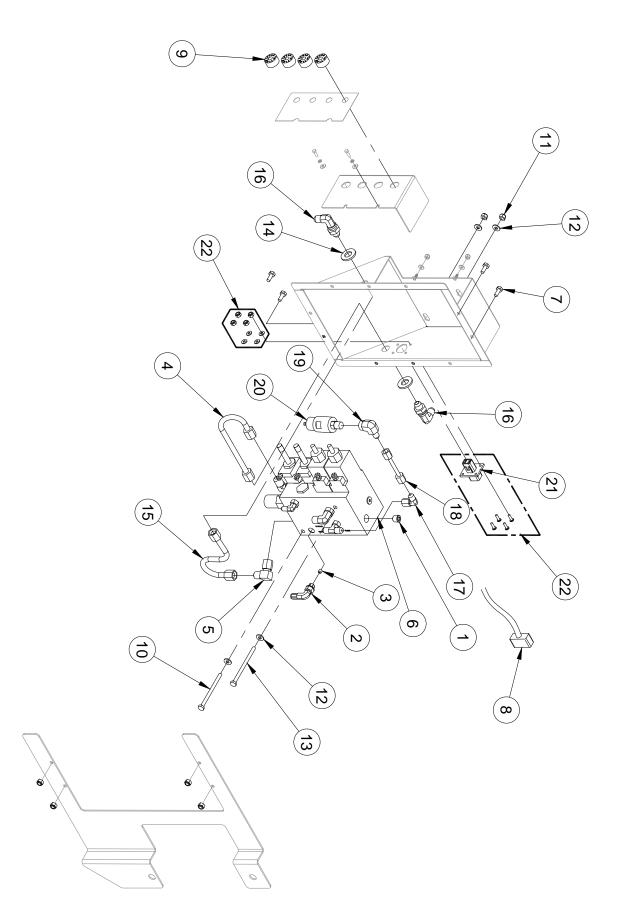


FIGURE 4-2: MANIFOLD ASSEMBLY (SSBF3761-1)



FIGURE 4-2: BAYLIFT MANIFOLD ASSEMBLY				
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1	PLUG, 1/4 HEX PIPE	1		31242
2	FITTING, ADAPTOR, 90, WITH 1/4-20 THREAD	1		31239
3	SCREW, HSS, 1/4-20 X 1/4 WITH .04 HOLE	1		31240
4	TUBE, PRESSURE CONTROL BOX ASSEMBLY	1		B16667B
5	FITTING, ADAPTOR, 90, SAE	1		31681
6	MANIFOLD WITH INT REL	1		C16643B
7	SCREW, HEX, 1/4-20 X 5/8 SST (BAG OF 10)	4		13306
8	HARNESS, PUMP CONTROL	1		B16691A
9	KNOB F/OVERRIDE MANUAL	4		10159-19
10	SCREW, HEX,1/4-20 X 3 1/2 SST (BAG OF 10)	1		13392
11	NUT, ESN, 1/4-20, SST, (BAG OF 10)	6		13392
12	WASHER, FLT, .281 X .625 X .065 SST (BAG OF 10)	4		13398
13	SCREW, HEX, 1/4-20 X 3 3/4, GR8, BLK (BAG OF 10)	1		34576
14	WASHER, FLT, .598 X 1.187 X .118, ZINC YELLOW (BAG OF 10)	2		25783
15	TUBE ASSEMBLY, RETURN	1		B16735A
16	FITTING, ADAPTOR, 90, SAE	2		31676
17	FITTING, ADAPTOR, 90, NPTF, SAE	1		31666
18	TUBE ASSEMBLY, PRESSURE SWITCH	1		B16669A
19	FITTING, ADAPTOR, 90, NPT, SAE	1		31670
20	SWITCH, PRESSURE, 500PSI	1		XM-1C-500R/QC
21	HARNESS, HYDRAULIC, CONTROL BOX TO PUMP (SEE 36907)	REF		B16690B
22	KIT, HARNESS HYDRAULIC, CONTROL BOX TO PUMP	4		36907

icon. A Wahten subsidiary

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

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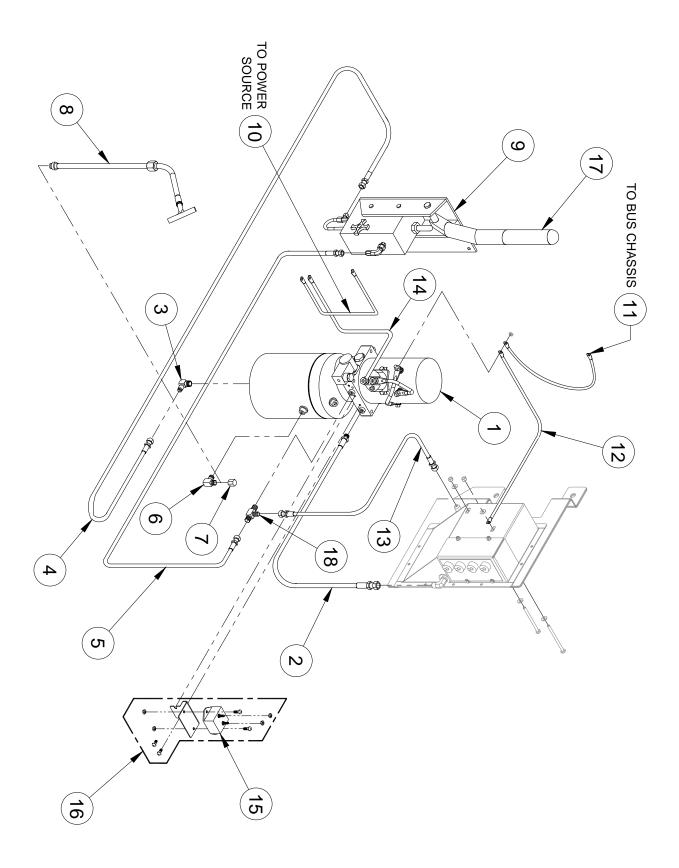


FIGURE 4-3: PUMP ASSEMBLY

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FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1	PUMP, 24V, 1.5 GALLON RESERVOIR	1		35417
2	HOSE ASSEMBLY	1		H16648-2A
3	FITTING, ADAPTOR 90, NPTF, SAE, -6M, -4M, STL	1		31667
4	HOSE ASSEMBLY	1		H16701-9A
5	HOSE ASSEMBLY	1		H16648-6A
6	FITTING, CAP, SAE, -8, STL	1		31653
7	FITTING, ADAPTOR 90, NPTF, SAE, -6M, -8M, STL	1		31669
8	DIP STICK ASSEMBLY	1		C16687A
9	PUMP ASSEMBLY, MANUAL	1		C15379H
10	CABLE ASSEMBLY, BATTERY, HOT MOTOR	1		B16696C
11	CABLE, CHASSIS	1		B16695C
12	CABLE ASSEMBLY, BATTERY, 20"	1		45599
13	HOSE ASSEMBLY	1		H16648-1A
14	CABLE ASSEMBLY, MOTOR, 8"	1		B15512C
15	CIRCUIT BREAKER	1		B13124
16	KIT, CIRCUIT BREAKER, W/HDWR	1		36908
17	CAP, .875 X 4.5, YELLOW	1		B15538
18	FITTING, ADAPTOR-T, NPTF, SAE, -6M, STL	1		45558
19 *	POWER STEERING FLUID	5.5 QT	-	20-16-051

FIGURE 4-3: PUMP ASSEMBLY (SSBF3761-1)

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.



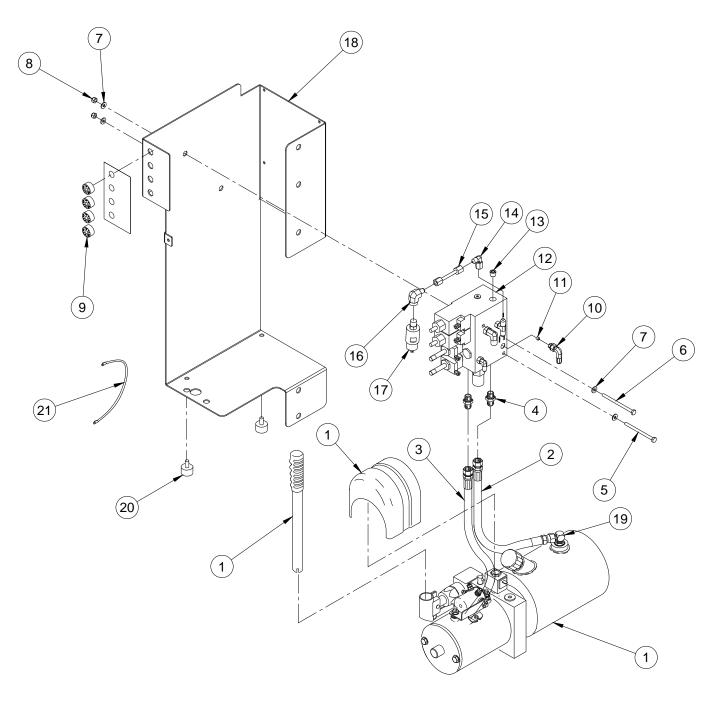


FIGURE 4-4: MANIFOLD & PUMP ASSEMBLY

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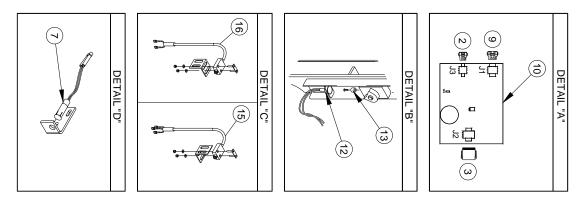
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ITEM DESCRIPTION QTY CONFIG. PART NO. 1 PUMP AND MOTOR ASSEMBLY, 24V 1 M3519-0124-0002 2A HOSE ASSEMBLY 1 SSBF376-1 37508 HOSE ASSEMBLY 1 SSBF376-1-37 R16701-2R 2C HOSE ASSEMBLY (SUPERSEDED) 2 SSBF3761-37 R16701-2R 2C HOSE ASSEMBLY (SUPERSEDED) 2 SSBF3761-4 H16701-2R 2D HOSE ASSEMBLY 1 SSBF3761-4 H16701-2R 2D HOSE ASSEMBLY 1 SSBF3761-4 H16701-1A 3A HOSE ASSEMBLY 1 SSBF3761-4 H16701-1A 3A HOSE ASSEMBLY 1 SSBF3761-4 H16701-2R 3C				•	
2A HOSE ASSEMBLY 1 SSBF3761-3 37508 2B HOSE ASSEMBLY 1 SSBF3761-3 HI6701-2R 2C* HOSE ASSEMBLY (SUPERSEDED) 2 SSBF3761-4 H16701-2A 2D* HOSE ASSEMBLY (SUPERSEDED) 1 SSBF3761-4 H16701-1A 3A* HOSE ASSEMBLY 1 SSBF3761-4 H16701-1A 3A* HOSE ASSEMBLY 1 SSBF3761-4 H16701-1A 3B* HOSE ASSEMBLY 1 SSBF3761-3 37510 3B* HOSE ASSEMBLY 1 SSBF3761-4 H16701-1P 3C* HOSE ASSEMBLY 1 SSBF3761-4 H16701-2P 3C* HOSE ASSEMBLY 1 SSBF3761-4 H16701-2P 3C* HOSE ASSEMBLY 1 SSBF3761-3 37510 3C* HOSE ASSEMBLY 1 SSBF3761-3 3750 3C* HOSE ASSEMBLY 1 SSBF3761-3 34576 3C* MOSE ASSEMBLY 35 55 (BAG OF 10) 1 14	FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 2B* HOSE ASSEMBLY (SUPERSEDED) 2 SSBF3761-3R H16701-2A 2D* HOSE ASSEMBLY (SUPERSEDED) 2 SSBF3761-4R H16701-2A 2D* HOSE ASSEMBLY (SUPERSEDED) 1 SSBF3761-4 H16701-1A 3A* HOSE ASSEMBLY 1 SSBF3761-3R H16701-1A 3A* HOSE ASSEMBLY 1 SSBF3761-3R H16701-1P 3C* HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 4 ADAPTER, ORB, 6AJIC, 6 STL 2 17209 13392 5 SCREW, HEX, ¼-20 X 3 ½, SST (BAG OF 10) 1 34576 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 141414 9 KNOB F/OVERRIDE MANUAL 4 313398 8 NUT, ESN, 10-24 SST (BAG OF 10) 1 22781 11 SCREW, HSS, ¼-20 X ½ WITH .04 HOLE 1 31240 12 MANIFOLD 1 25781 1 13 PLUG, 1/4 HEX PIPE	1	PUMP AND MOTOR ASSEMBLY, 24V	1		M3519-0124-0002
28 * HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 20 * HOSE ASSEMBLY (SUPERSEDED) 2 SSBF3761-3R H16701-2A 20 * HOSE ASSEMBLY 1 SSBF3761-3R H16701-1A 3A * HOSE ASSEMBLY 1 SSBF3761-3R H16701-1A 3A * HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 3A * HOSE ASSEMBLY 1 SSBF3761-3R H16701-1P 3C * HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 3C * HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 13392 6 SCREW, HEX, %-20 X 3 ½, ST (BAG OF 10) 1 13392 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ½-20 THREAD 1 1240 11 SCREW, HEX, %-20 X ½ WITH.04 HOLE 1 SSBF3364-D 16669A 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 XM-1C-500R/QC	2A	HOSE ASSEMBLY	1	SSBF3759-1	37508
2C* HOSE ASSEMBLY (SUPERSEDED) 2 SSB7354-D H16701-2A 2D* HOSE ASSEMBLY 1 SSB73761-4 H16701-1A 3A* HOSE ASSEMBLY 1 SSB73761-3 37510 * HOSE ASSEMBLY 1 SSB73761-38 H16701-1P 3B* HOSE ASSEMBLY 1 SSB73761-38 H16701-2R 3B* HOSE ASSEMBLY 1 SSB73761-38 H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 5 SCREW, HEX, ½-20 X 3 ½ SST (BAG OF 10) 1 13392 6 SCREW, HEX, ½-20 X 3 ½ GRB, BLK (BAG OF 10) 1 13398 7 WASHER, FLT, 281 X. 625 X.065 SST (BAG OF 10) 1 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14141 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ½-20 THREAD 1 31239 11 SCREW, HSS, ½-20 X ½ WITH.04 HOLE 1 XM-10-500R/02 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 </td <td></td> <td>HOSE ASSEMBLY</td> <td>1</td> <td>SSBF3761-3</td> <td>37508</td>		HOSE ASSEMBLY	1	SSBF3761-3	37508
2D* HOSE ASSEMBLY 1 SSBF3761-4 H16701-1A 3A* HOSE ASSEMBLY 1 SSBF3759-1 37510 * HOSE ASSEMBLY 1 SSBF3761-3 37510 3B* HOSE ASSEMBLY 1 SSBF3761-3 37510 3B* HOSE ASSEMBLY 1 SSBF3761-3 H16701-1P 3C* HOSE ASSEMBLY 1 SSBF3761-4 H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 13392 5 SCREW, HEX, V-20 X 3 ½, SST (BAG OF 10) 1 34576 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 10159-19 10 FITTING, ADAPTOR, 90, WITH V-20 THREAD 1 31239 11 SCREW, HSS, V-20 X ¼ WITH.04 HOLE 1 31240 12 MANIFOLD 1 25781 14 FITTING, ADAPTOR, 90, NPTF, SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SOUPSI 1 XM-1C-500R/QC 14 FITTING, ADAPTOR, 90, NPT, SAE 1 SSBF3759-3 37506 16 FITTING, ADAPTOR, 9	2B *	HOSE ASSEMBLY	1	SSBF3761-3R	H16701-2R
3A* HOSE ASSEMBLY 1 SSBF3761-3 37510 3B* HOSE ASSEMBLY 1 SSBF3761-38 H16701-1P 3C* HOSE ASSEMBLY 1 SSBF3761-38 H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 5 SCREW, HEX, ¼-20 X 3 ½ SST (BAG OF 10) 1 13392 6 SCREW, HEX, ¼-20 X 3 ½, GR8, BLK (BAG OF 10) 1 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HSS, ¼-20 X ¼ WITH.04 HOLE 1 31240 12 MANIFOLD 1 25781 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31240 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 31666 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE SOOPSI 1 XM-1C-500R/QC 186 MOUNT, HYDRA	2C *	HOSE ASSEMBLY (SUPERSEDED)	2	SSBF3354-D	H16701-2A
* HOSE ASSEMBLY 1 SSBF3761-3 37510 3B * HOSE ASSEMBLY 1 SSBF3761-3R H16701-1P 3C * HOSE ASSEMBLY 1 SSBF3761-3R H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 5 SCREW, HEX, ½-20 X 3 ½ SST (BAG OF 10) 1 34576 6 SCREW, HEX, ½-20 X 3 ½ SST (BAG OF 10) 1 34576 7 WASHER, FLT, 281 X. 625 X.066 SST (BAG OF 10) 1 3398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ½-20 THREAD 1 31239 11 SCREW, HSS, ½-20 X ½ WITH .04 HOLE 1 31240 12 MANIFOLD 1 25781 14 FITTING, ADAPTOR, 90, NPTF, SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 816669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 SSBF3759-3 17 SWITCH,	2D *	HOSE ASSEMBLY	1	SSBF3761-4	H16701-1A
3B* HOSE ASSEMBLY 1 SSBF3761-3R H16701-1P 3C* HOSE ASSEMBLY 1 SSBF3761-4 H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 5 SCREW, HEX, ½-20 X 3 ½ SST (BAG OF 10) 1 3392 6 SCREW, HEX, ½-20 X 3 ½, GR8, BLK (BAG OF 10) 1 34576 7 WASHER, FLT, 281 X, 625 X.065 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ½-20 THREAD 1 31239 11 SCREW, HEX, ½-20 X ¾ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 31670 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE.500PSI 1 XM-1C-500R/QC 18 MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18	3A *	HOSE ASSEMBLY	1	SSBF3759-1	37510
3C* HOSE ASSEMBLY 1 SSBF3761-4 H16701-2R 4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 5 SCREW, HEX, ¼-20 X 3 ½ SST (BAG OF 10) 1 13392 6 SCREW, HEX, ¼-20 X 3 ½, GR8, BLK (BAG OF 10) 1 34576 7 WASHER, FLT, .281 X. 625 X. 065 SST (BAG OF 10) 4 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HEX, ¼-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 SSBF376-13 37506 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 34585 18 MOUNT, HYDRAULIC, LH 1 SSBF376-13 37506 18 MOUNT, HYDRAULIC, LH SSBF376-13 37506	*	HOSE ASSEMBLY	1	SSBF3761-3	37510
4 ADAPTER, ORB, 6XJIC, 6 STL 2 17209 5 SCREW, HEX, ½-20 X 3 ½ SST (BAG OF 10) 1 13392 6 SCREW, HEX, ½-20 X 3 ½, GR8, BLK (BAG OF 10) 1 34576 7 WASHER, FLT, 281 X. 625 X. 065 SST (BAG OF 10) 4 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ½-20 THREAD 1 31239 11 SCREW, HSS, ½-20 X ½ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 37506 18C*	3B *	HOSE ASSEMBLY	1	SSBF3761-3R	H16701-1P
5 SCREW, HEX, ¼-20 X 3 ½ SST (BAG OF 10) 1 13392 6 SCREW, HEX, ¼-20 X 3 ¼, GR8, BLK (BAG OF 10) 1 34576 7 WASHER, FLT, 281 X. 625 X. 065 SST (BAG OF 10) 4 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 816669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586	3C *	HOSE ASSEMBLY	1	SSBF3761-4	H16701-2R
6 SCREW, HEX, ¼-20 X 3 ¾, GR8, BLK (BAG OF 10) 1 34576 7 WASHER, FLT, .281 X .625 X .065 SST (BAG OF 10) 4 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HSS, ½-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506 18B* MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3	4	ADAPTER, ORB, 6XJIC, 6 STL	2		17209
7 WASHER, FLT, .281 X. 625 X. 065 SST (BAG OF 10) 4 13398 8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ½-20 THREAD 1 31239 11 SCREW, HSS, ½-20 X ½ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506<	5	SCREW, HEX, ¼-20 X 3 ½ SST (BAG OF 10)	1		13392
8 NUT, ESN, 10-24 SST (BAG OF 10) 2 14414 9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 37506 18C* KUT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R	6	SCREW, HEX, ¼-20 X 3 ¾, GR8, BLK (BAG OF 10)	1		34576
9 KNOB F/OVERRIDE MANUAL 4 10159-19 10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE SOUPSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-33 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-34 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-34 31681 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-34 31681 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3	7	WASHER, FLT, .281 X .625 X .065 SST (BAG OF 10)	4		13398
10 FITTING, ADAPTOR, 90, WITH ¼-20 THREAD 1 31239 11 SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599 3599	8	NUT, ESN, 10-24 SST (BAG OF 10)	2		14414
11 SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE 1 31240 12 MANIFOLD 1 C16643B 13 PLUG, 1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599 <td>9</td> <td>KNOB F/OVERRIDE MANUAL</td> <td>4</td> <td></td> <td>10159-19</td>	9	KNOB F/OVERRIDE MANUAL	4		10159-19
12 MANIFOLD 1 C16643B 13 PLUG,1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 31670 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4R C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599 31659	10	FITTING, ADAPTOR, 90, WITH ¼-20 THREAD	1		31239
13 PLUG,1/4 HEX PIPE (BAG OF 10) 1 25781 14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B1669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 XM-1C-500R/QC 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 19 FITTING, ADAPTOR, 90, SAE 2 XB3010 XB3010 20 VIBRATION MOUNT 2 VBM3010 XB3010 XB3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599 XB3010 <td>11</td> <td>SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE</td> <td>1</td> <td></td> <td>31240</td>	11	SCREW, HSS, ¼-20 X ¼ WITH .04 HOLE	1		31240
14 FITTING, ADAPTOR, 90, NPTF. SAE 1 31666 15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 31670 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 31681 19 FITTING, ADAPTOR, 90, SAE 2 31681 31681 20 VIBRATION MOUNT 2 VBM3010 31681 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599 31645	12	MANIFOLD	1		C16643B
15 TUBE ASSEMBLY, PRESSURE SWITCH 1 B16669A 16 FITTING, ADAPTOR, 90, NPT, SAE 1 31670 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 31681 20 VIBRATION MOUNT 2 VBM3010 316599 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599 316459	13	PLUG,1/4 HEX PIPE (BAG OF 10)	1		25781
16 FITTING, ADAPTOR, 90, NPT, SAE 1 31670 17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599	14	FITTING, ADAPTOR, 90, NPTF. SAE	1		31666
17 SWITCH, PRESSURE. 500PSI 1 XM-1C-500R/QC 18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18C* KIT, MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3 37506 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3 31681 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599	15	TUBE ASSEMBLY, PRESSURE SWITCH	1		B16669A
18A KIT, MOUNT, HYDRAULIC, LH 1 SSBF3354-D 45585 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 18B MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 18D MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599	16	FITTING, ADAPTOR, 90, NPT, SAE	1		31670
18B MOUNT, HYDRAULIC, LH 1 SSBF3759-1 37506 MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1	17	SWITCH, PRESSURE. 500PSI	1		XM-1C-500R/QC
MOUNT, HYDRAULIC, LH 1 SSBF3759-3 37506 MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4R 45586 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1	18A	KIT, MOUNT, HYDRAULIC, LH	1	SSBF3354-D	45585
MOUNT, HYDRAULIC, LH 1 SSBF3761-3 37506 18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599	18B	MOUNT, HYDRAULIC, LH	1	SSBF3759-1	37506
18C* KIT, MOUNT, HYDRAULIC, RH 1 SSBF3761-3R 45586 18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599		MOUNT, HYDRAULIC, LH	1	SSBF3759-3	37506
18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599		MOUNT, HYDRAULIC, LH	1	SSBF3761-3	37506
18D* MOUNT, HYDRAULIC, LH 1 SSBF3761-4 C16971A 19 FITTING, ADAPTOR, 90, SAE 2 31681 20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599	18C*	KIT, MOUNT, HYDRAULIC, RH	1	SSBF3761-3R	
20VIBRATION MOUNT2VBM301021CABLE ASSEMBLY, BATTERY, 20"145599	18D*	MOUNT, HYDRAULIC, LH	1	SSBF3761-4	C16971A
20 VIBRATION MOUNT 2 VBM3010 21 CABLE ASSEMBLY, BATTERY, 20" 1 45599	19	FITTING, ADAPTOR, 90, SAE	2		31681
21CABLE ASSEMBLY, BATTERY, 20"145599			2		VBM3010
22 * POWER STEERING FLUID 5.5 QT 20-16-051	21	CABLE ASSEMBLY, BATTERY, 20"	1		45599
	22 *	POWER STEERING FLUID	5.5 (τç	20-16-051

CON.

FIGURE 4-4: MANIFOLD & PUMP ASSEMBLY

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.



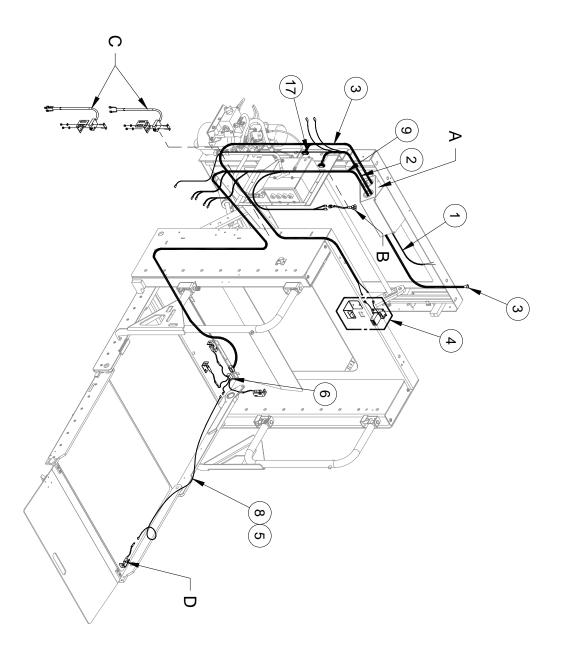


FIGURE 4-5: ELECTRICAL COMPONENTS



FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1	HARNESS, SUPPLEMENTAL BUS DOOR SOLENOID	1	SSBF3761-1	B16729A
2	HARNESS ASSY, CONTROLLER TO PENDANT, SBF DOOR LO	CK 1		33627
ЗA	HARNESS, CONTROLLER	1	SSBF3761-1	32735
*	HARNESS, CONTROLLER	1	SSBF3761-2	32735
*	HARNESS, CONTROLLER	1	SSBF3761-3	32735
3B *	HARNESS, CONTROLLER	1	SSBF3354-D	32748
*	HARNESS, CONTROLLER	1	SSBF3759-1	32748
*	HARNESS, CONTROLLER	1	SSBF3759-3	32748
*	HARNESS, CONTROLLER	1	SSBF3761-3R	32748
*	HARNESS, CONTROLLER	1	SSBF3761-4	32748
4	KIT, COUNTER ASSEMBLY, W/HDWR	1		36906
5	COVER, S/S ARMOR CABLE	1		45545
6	HARNESS, POSITION SWITCHES	1		32739
7	MICRO SWITCH ASSEMBLY	4		PS-S20-6-GT
8	CABLE, 24GA, MICROPHONE	REF		31538
9	HARNESS, LOCATION SWITCHES	1		32737
10A	CONTROLLER ASSEMBLY	1	SSBF3354-D	33468
	CONTROLLER ASSEMBLY	1	SSBF3759-1	33468
	CONTROLLER ASSEMBLY	1	SSBF3759-3	33468
	CONTROLLER ASSEMBLY	1	SSBF376-2	33468
	CONTROLLER ASSEMBLY	1	SSBF376-3	33468
	CONTROLLER ASSEMBLY	1	SSBF376-3R	33468
	CONTROLLER ASSEMBLY	1	SSBF376-4	33468
10B*	CONTROLLER ASSEMBLY	1	SSBF376-1	33452
11	KIT, THRESHOLD WARNING SYSTEM	1		32885
12	MICRO SWITCH ASSEMBLY	1		PS-S80-6-GT
13	MAGNET	1		MM-400
14	HARNESS, TWS EXTENSION	1		45549
15	STOW SWITCH ASSEMBLY LOWER	1		B16722A
16	STOW SWITCH ASSEMBLY UPPER	1		B16721A
17	MOUNTING, BRACKET, DT SERIES	1		17865

Ricon. A Wahteo subsidiory

FIGURE 4-5: ELECTRICAL COMPONENTS

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

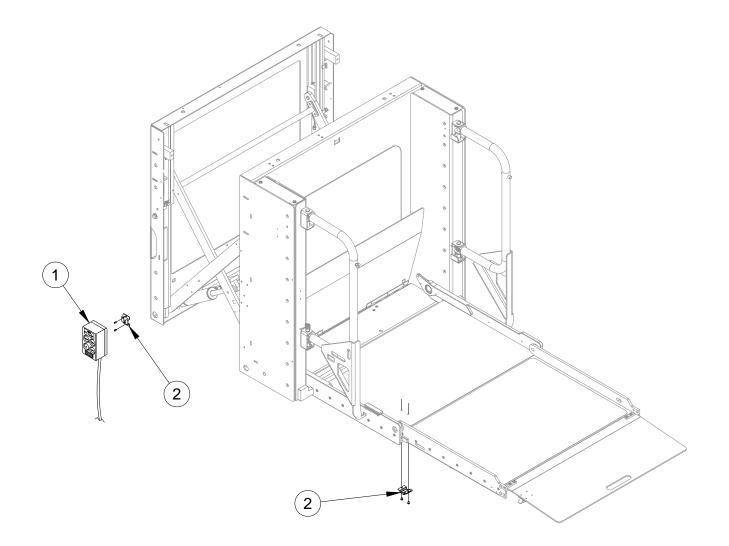


FIGURE 4-6: ELECTRICAL COMPONENTS



	FIGURE 4-6: PENDANT ASSEMBLY				
FIG. ITEM	DESCRIPTION	QTY CONFIG.	PART NO.		
1	PENDANT ASSEMBLY (SUPERSEDED 33628)	1	44856		
2	KIT, INSTALLATION, PENDANT, MIC	2	33021		
3 *	HARNESS, EXT, PENDANT,100" L	1	55655		
	END OF TABLE				

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.



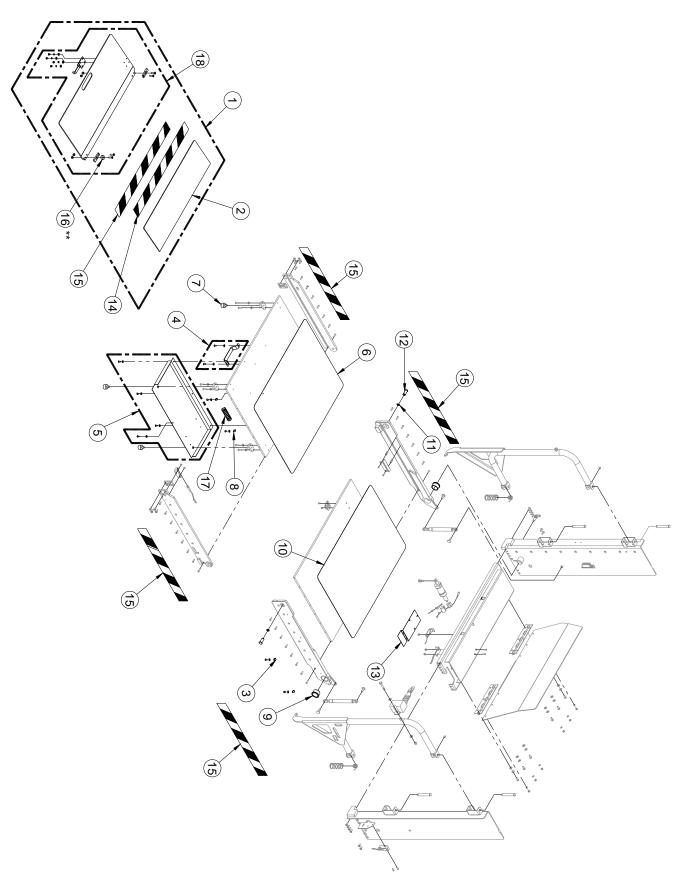


FIGURE 4-7: PLATFORM ASSEMBLY SHEET 1



FIG. ITEM	DESCRIPTION	QTY CONFIG.	PART NO.
1	KIT, FRONT BARRIER ASSEMBLY	1	36909
2	ANTI SKID, FRONT BARRIER	1	B16325A
3	CLAMP, CABLE 1/4" (BAG OF 10)	2	25785
4	KIT, HANDLE, W/HDWR	1	36910
5	KIT, COVER WITH LIP, W/HDWR	1	36911
6	ANTI SKID, FRONT PLATFORM	1	B16323A
7	VIBRATION MOUNT	4	VBM3010
8	CLAMP, CABLE 3/8" (BAG OF 10)	2	19777
9	BUSHING, FLANGED, 1.50 OD X 1.25 ID X 1.00LG (KIT OF 2)	1	36912
10	ANTI SKID, MAIN PLATFORM	1	B16322A
11	SNAPRING, 1/2", " (BAG OF 10)	2	14461
12	PIN	2	B16686A
13	COVER, WIRE CONNECTION	1	32585
14	ANTI SKID TAPE, YELLOW/BLACK 2"	2.3 FT	31696
15	TAPE, SAFETY, YELLOW/BLACK 2"	9 FT	25787
16 **	MAGNET	1	MM-400
17	SPRING, CABLE RETURN	1	55650
18	KIT, FRONT BARRIER ASSEMBLY	1	36909

FIGURE 4-7: PLATFORM ASSEMBLY SHEET 1

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

NOTE: * Item or configuration not shown.

NOTE: ** PART NOT INCLUDED WITH ASSEMBLY #C16540B



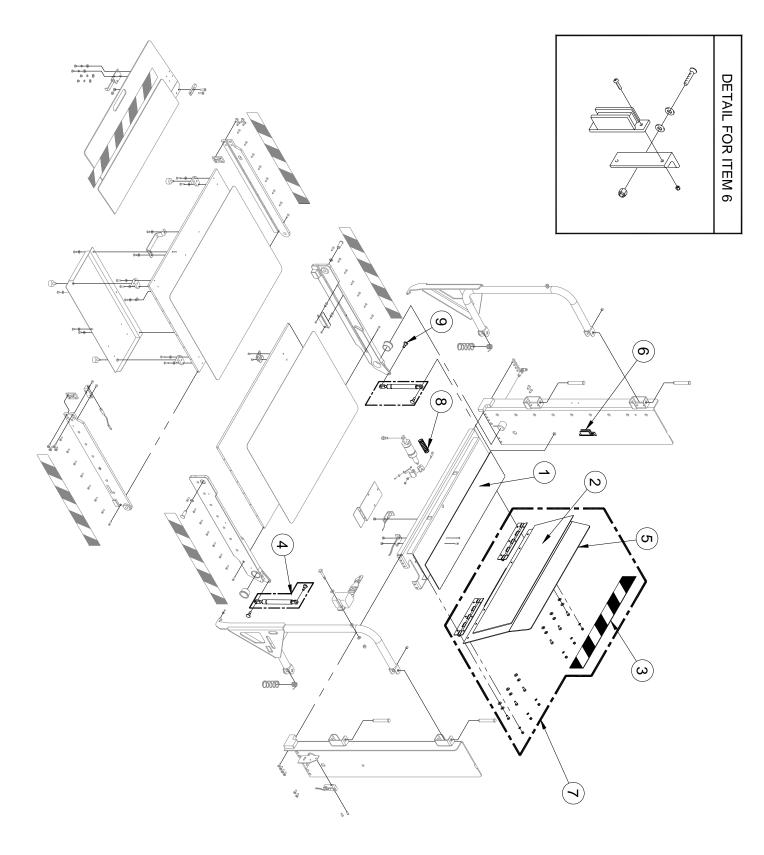


FIGURE 4-8: PLATFORM ASSEMBLY SHEET 2

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FIGURE 4-8: PLATFORM ASSEMBLY SHEET 2

FIG.	DESCRIPTION	OTV		
ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1	ANTI SKID, MAIN CHANNEL	1		B16324A
2A	ANTI SKID, REAR BARRIER	1	SSBF3354-D	B16953B
	ANTI SKID, REAR BARRIER	1	SSBF3759-1	B16953B
	ANTI SKID, REAR BARRIER	1	SSBF3761-3	B16953B
2B	ANTI SKID, REAR BARRIER	1	SSBF3759-3	B16326A
	ANTI SKID, REAR BARRIER	1	SSBF3761-2	B16326A
	ANTI SKID, REAR BARRIER	1	SSBF3761-3R	B16326A
	ANTI SKID, REAR BARRIER	1	SSBF3761-4	B16326A
2C	ANTI SKID, REAR BARRIER	1	SSBF3761-1	B16326A
3	ANTISKID TAPE, YELLOW/BLACK 2"	2.3 F	Т	31696
4	KIT, GAS SPRING, W/SHOULDER BOLT	2		29391
5A	REAR BARRIER	REF	SSBF3354-D	C16843C
	REAR BARRIER	REF	SSBF3759-1	C16843C
	REAR BARRIER	REF	SSBF3761-3	C16843C
5B *	REAR BARRIER	REF	SSBF3759-3	C16378C
*	REAR BARRIER	REF	SSBF3761-2	C16378C
*	REAR BARRIER	REF	SSBF3761-3R	C16378C
5C *	REAR BARRIER	1	SSBF3761-1	D16553A
5D *	REAR BARRIER	REF	SSBF3761-4	C16970A
6	KIT, MAGNET, PLATFORM, W/HDWR	1		36913
7A	KIT, REAR BARRIER ASSEMBLY	1	SSBF3354-D	33678
	KIT, REAR BARRIER ASSEMBLY	1	SSBF3759-1	33678
	KIT, REAR BARRIER ASSEMBLY	1	SSBF3761-3	33678
7B *	KIT, REAR BARRIER ASSEMBLY	1	SSBF3759-3	36900
*	KIT, REAR BARRIER ASSEMBLY	1	SSBF3761-2	36900
*	KIT, REAR BARRIER ASSEMBLY	1	SSBF3761-3R	36900
7C *	KIT, REAR BARRIER ASSEMBLY	1	SSBF3761-1	36901
7D *	KIT, REAR BARRIER ASSEMBLY	1	SSBF3761-4	36902
8	SPRING, EXTENSION	1		31241
9	SCREW, SSS, 3/8 X 3/8, SST (BAG OF 10)	2		14418

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NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

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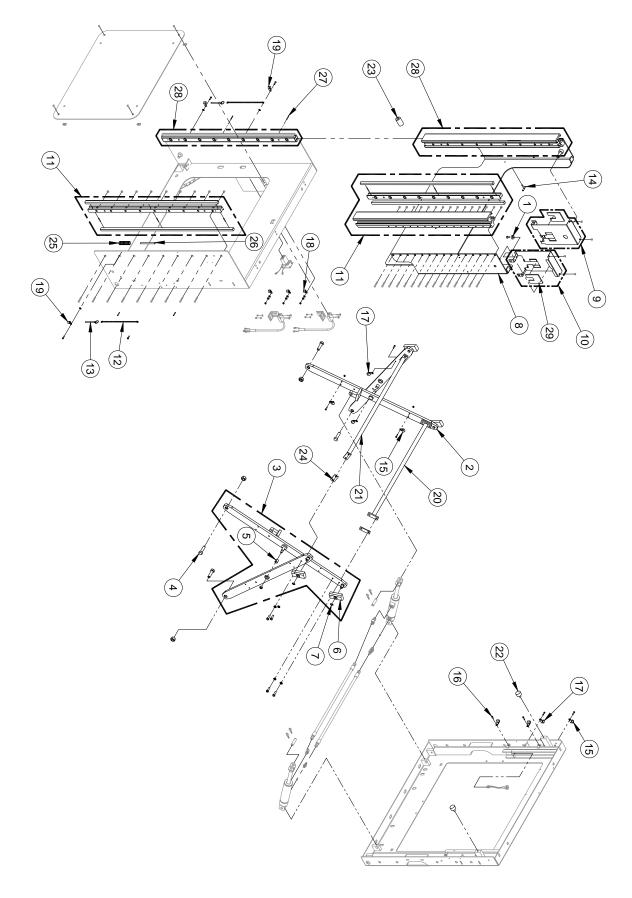


FIGURE 4-9: EXTEND/LIFT MECHANISM ASSEMBLY



FIGURE 4-9: EXTEND/LIFT MECHANISM ASSEMBLY

FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1	MAGNET	1		MM-400
2A	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3759-1	C16778A
	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3759-3	C16778A
	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3761-3	C16778A
2B *	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3761-1	C16952A
*	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3761-2	C16952A
*	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3761-3R	C16952A
*	EXTENSION ARM ASSEMBLY, REAR, LH	1	SSBF3761-4	C16952A
ЗA	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3759-1	C16779A
	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3759-3	C16779A
	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3761-3	C16779A
3B *	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3761-1	C16593A
*	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3761-2	C16593A
*	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3761-3R	C16593A
*	EXTENSION ARM ASSEMBLY, REAR, RH	1	SSBF3761-4	C16593A
3C *	EXTENSION ARM ASSEMBLY	2	SSBF3354-D	36362
4	SHOULDER BOLT, EXTENSION ARMS	4		B16943A
5	BUSHING, BRONZE	2		SS1620-16
6	SLIDE BEARING, EXTENSION ARMS	4		B16949A
7	SNAP RING 3/4" (BAG OF 10)	4		14461
8A	PANEL, INTERMEDIATE	1		C16484E
8B	PANEL, INTERMEDIATE	1	SSBF3354-D	36377
9A	COVER ASSEMBLY, CYLINDER, INTERMEDIATE, LH	1		33445
9B	COVER ASSEMBLY, CYLINDER, INTERMEDIATE, LH	1	SSBF3354-D	36395
10A	COVER ASSEMBLY, CYLINDER, INTERMEDIATE, RH	2		33330
10B	COVER ASSEMBLY, CYLINDER, INTERMEDIATE, RH	2	SSBF3354-D	36397
11A	EXTRUSION, V-SLIDE, RH	1		C16488B
11B	EXTRUSION, V-SLIDE, RH	1	SSBF3354-D	36370
12	CHAIN, BEAD LANYARD	2		55651
13	PIN, QUICK-RELEASE, ¼ DIA X 3" LG	2		31685
14	T-BOLT, MICRO SWITCH, INTERMEDIATE	1		B16948A
15	CLAMP 5/8" (BAG OF 10)	3		36914
16	CLAMP 1/2" (BAG OF 10)	2		34560
17	CLAMP 3/8" (BAG OF 10)	3		36915
18	CLAMP, CABLE 3/8"	3		34599
19	CLAMP, CABLE 3/16" (BAG OF 10)	3		19777
20	BRACKET, REAR	1		C15155D-1993
21	BRACKET, FRONT	1		C15154D-1993

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NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

	FIGURE 4-9: EXTEND/LIFT MECHANISM ASSEMBLY				
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.	
22	VIBRATION MOUNT	2		VBM3010	
23	BUMPER, GUIDE, BRIDGEPLATE	1	SSBF3761-1	29115	
	BUMPER, GUIDE, BRIDGEPLATE	1	SSBF3761-2	29115	
	BUMPER, GUIDE, BRIDGEPLATE	1	SSBF3761-4	29115	
24	SPACER	4		29135	
25	SPRING	1		31601	
26	TUBE, SLEEVE, CABLE	2		31637	
27	ROLLPIN, 1/4 X 1	8		31697	
28A	EXTRUSION, V-SLIDE, LH	1		C16487B	
28B	EXTRUSION, V-SLIDE, LH	1	SSBF3354-D	36369	
29	COVER, GATE CYLINDER	2		31692	

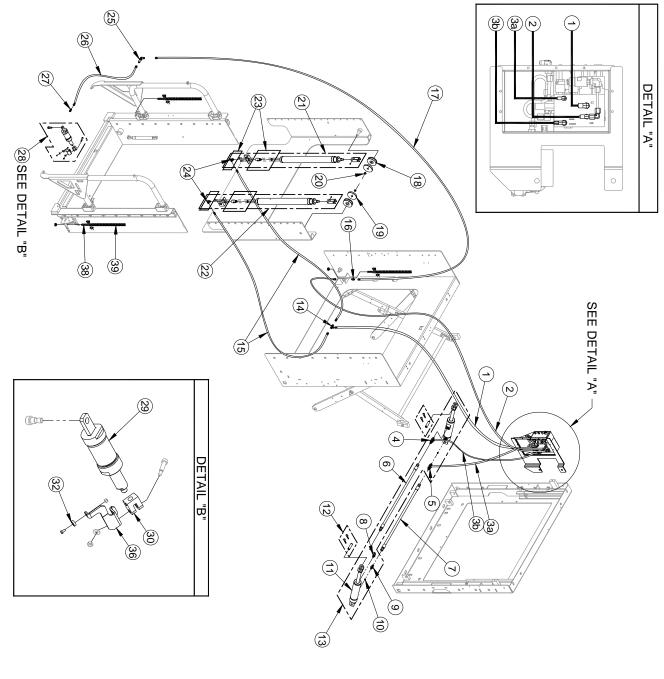
NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

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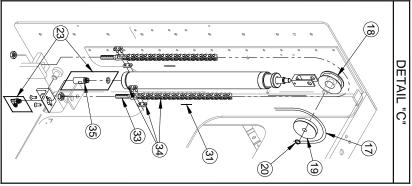


FIGURE 4-10: HYDRAULIC ASSEMBLY



- SPARE PARTS

FIGURE 4-10:	HYDRAULIC	ASSEMBLY
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FIG.				
ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1A	HOSE ASSEMBLY (LEFT HAND SIDE PUMP)	1		H16701-4A
1B	HOSE ASSEMBLY (RIGHT HAND SIDE PUMP)	1		H16701-4B
2	HOSE ASSEMBLY	1		H16701-3A
3	HOSE ASSEMBLY	2		H16701-5A
4	FITTING, MALE JIC X MALE SAE-4, TEE	1		32813
5	FITTING, MALE JIC, MALE SAE-4, ORIFICE	1		32810
6	HOSE ASSEMBLY	1		55669
7	HOSE ASSEMBLY	1		H16701-9A
8	FITTING, MALE JIC, MALE SAE-4, 45 DEGREE	1		32812
9	FITTING, MALE JIC, MALE SAE-4, ORIFICE	1		32811
10	ORIFICE, 0.043 DIA., SCREW, HSS	2		15351
11	CYLINDER ASSEMBLY, FOLDING (SEE 32851)	REF		32815
12	KIT, PIN, CLEVIS CYLINDER, SCISSOR	1		29148
13	KIT, CYLINDER ASSEMBLY WITH FITTINGS	1		32851
14	FITTING, ADAPTOR-T, SAE, -6M, STL	1		31677
15	HOSE ASSEMBLY	2		H16701-6A
16	FITTING, ADAPTOR, STRAIGHT, SAE, -4M, STL	1		31675
17A	HOSE ASSEMBLY	1	SSBF3354-D	36398
17B	HOSE ASSEMBLY	1	SSBF3759-1	33327
	HOSE ASSEMBLY	1	SSBF3759-3	33327
	HOSE ASSEMBLY	1	SSBF3761-1	33327
	HOSE ASSEMBLY	1	SSBF3761-2	33327
	HOSE ASSEMBLY	1	SSBF3761-3	33327
	HOSE ASSEMBLY	1	SSBF3761-3R	33327
	HOSE ASSEMBLY	1	SSBF3761-4	33327
18	CHAIN PULLEY	2		B14812D
19	CABLE PULLEY	2		B16020C
20	SNAPRING, 1/2" (BAG OF 10)	2		14461
21A	CYLINDER ASSEMBLY, 26.5", LH	1	SSBF3354-D	36384
21B	CYLINDER ASSEMBLY, 29", LH	1	SSBF3759-1	C16842A
21C	CYLINDER ASSEMBLY, 30", LH	1	SSBF3759-3	C16760A
	CYLINDER ASSEMBLY, 30", LH	1	SSBF3761-1	C16760A
	CYLINDER ASSEMBLY, 30", LH	1	SSBF3761-2	C16760A
	CYLINDER ASSEMBLY, 30", LH	1	SSBF3761-3	C16760A
	CYLINDER ASSEMBLY, 30", LH	1	SSBF3761-3R	C16760A
	CYLINDER ASSEMBLY, 30", LH	1	SSBF3761-4	C16760A
21D	CYLINDER ASSEMBLY, 29.5", LH	1	SSBF3760-1R	C16760A
	CYLINDER ASSEMBLY, 29.5", LH	1	SSBF3761-7R	C16760A

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NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

FIGURE 4-10:	HYDRAULIC	ASSEMBLY
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FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
22A	CYLINDER ASSEMBLY, 26.5", RH	1	SSBF3354-D	36385
22B	CYLINDER ASSEMBLY, 29", RH	1	SSBF3759-1	C16841A
22C	CYLINDER ASSEMBLY, 30", RH	1	SSBF3759-3	C16490A
	CYLINDER ASSEMBLY, 30", RH	1	SSBF3761-1	C16490A
	CYLINDER ASSEMBLY, 30", RH	1	SSBF3761-2	C16490A
	CYLINDER ASSEMBLY, 30", RH	1	SSBF3761-3	C16490A
	CYLINDER ASSEMBLY, 30", RH	1	SSBF3761-3R	C16490A
	CYLINDER ASSEMBLY, 30", RH	1	SSBF3761-4	C16490A
22D	CYLINDER ASSEMBLY, 29.5", RH	1	SSBF3760-1R	44984
	CYLINDER ASSEMBLY, 29.5", RH	1	SSBF3761-7R	44984
23	KIT, FITTINGS, CYLINDER ASSEMBLY	2		36904
24	ADAPTOR-L 7/16M, 7/16M, 90 ORB/JIC 1.03 X .89			V2-SH-011
25	FITTING, BUL, 1/4 J, STL	2 1		V2-SH-98
26	HOSE ASSEMBLY, HYDRAULIC, 17" X 1/4 JIC X 1/4 JIC	1		VS-SH-09
27	FITTING, ADAPTOR STRAIGHT, ORB, SAE, -4MM, STL	1		31678
28	KIT, CYLINDER, BARRIER	1		32400
29	CYLINDER ASSEMBLY, PLATFORM REAR	1		31289
30	CLEVIS, PRB CYLINDER	1		B16390C
31	PIN, COTTER (BAG OF 10)	4		25786
32	MAGNET	1		MM-400
33	BOLT, CHAIN ADJUSTMENT	T, CHAIN ADJUSTMENT 4		B14929D
34A	CHAIN, LEAF, BL423, 113 LINKS W/2 MSTR LINK	13 LINKS W/2 MSTR LINK 2 SSBF3354-D		36392
34B	CHAIN, LEAF, BL423, 129 LILNKS W-2 MSTR LINK			45546
35	FITTING, CYLINDER	2		45548
36	BRACKET, SENSOR TARGET	1		32562

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts.

NOTE: * Item or configuration not shown.

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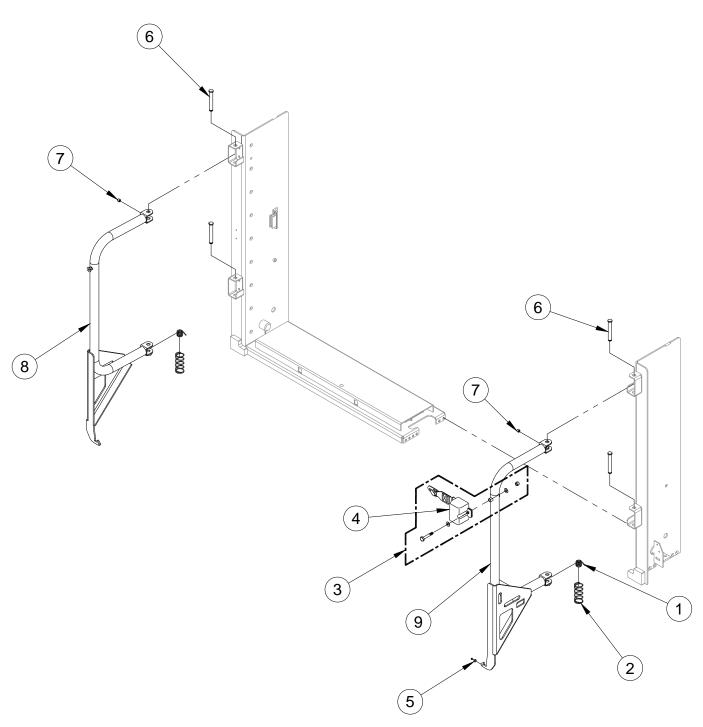


FIGURE 4-11: HANDRAIL ASSEMBLY

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FIG. ITEM	DESCRIPTION	CONFIG.	PART NO.			
1	SPRING, TORSION	2		45547		
2	SPRING, COMPRESSION, 1.064 ID X 1.234 OD	2		33311		
3	KIT, SEAT BELT, W/HDWR	1		36919		
4	SEAT BELT	1		TR-ALR		
5	MAGNET	1		MM-400		
6	PIN, HANDRAIL	4		33312		
7	SCREW, HSS, 3/8-16 X 3/8, CUP PT (BAG OF 10)	2		11797		
8A	HANDRAIL, LH	1		33301		
8B	HANDRAIL, LH	1	SSBF3354-D	36380		
9A	HANDRAIL, RH	1		33302		
9B	HANDRAIL, RH	1	SSBF3354-D	36381		

FIGURE 4-11: PUBLIC USE HANDRAILS ASSEMBLY

NOTE: (REF) in QTY column is for Referenced Parts Only and are not sold as spare parts. **NOTE**: * Item or configuration not shown.

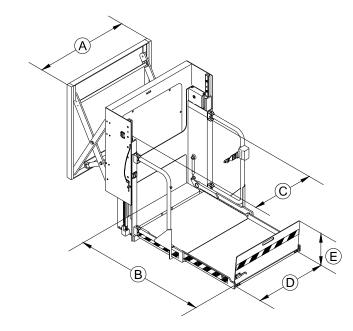
– BAYLIFT SERVICE MANUAL ————

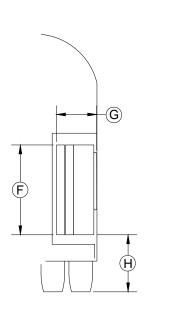
APPENDIX 1

LIFT SPECIFICATIONS

BAYLIFT PUBLIC USE WHEELCHAIR LIFT

	Powerelectro-hydraulic	Rated load capacity, max
	Motor rating @ 24 volts DC	Manual backup-up hand pump
	Hydraulic cylinders	Manual backup-downpressure release valve
Hydraulic cylinders	Hydraulic cylinders	Lift weightapprox 600 lbs





DIMENSIONS (inches)								
	Α	В	С	D	Е	F	G	н
MODEL	Stationary frame width	Usable platform length	Clear entry width	Usable platform width	Outer barrier height	Height (folded)	Installation depth (folded)	Floor-to- ground level
SSBF3354-D	39"	48"	29.75"	28.50"	12"	33"	18"	13.50
SSBF3759-1	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"
SSBF3759-3	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"
SSBF3761-1	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"
SSBF3761-2	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"
SSBF3761-3	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"
SSBF3761-3R	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"
SSBF3761-4	39"	48"	29.75"	28.50"	12"	37"	18"	15.75"