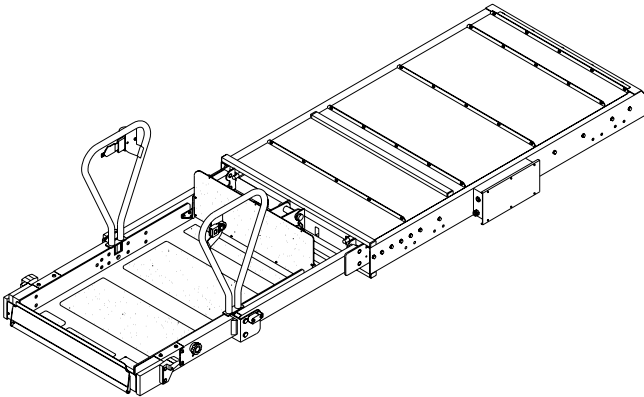


I. INTRODUCTION

Safe and easy access to motorcoaches is provided by the Ricon Mirage F9TF Public Use wheelchair and standee lift. The Mirage F9TF is a dedicated entry model, which is intended for installation in a vehicle baggage compartment, or similar location.

An electric-motor driven hydraulic pump provides a maximum platform lifting capacity of 660 pounds (300 kilograms). A trained attendant or the vehicle operator operates it. For a boarding passenger, the operator uses control switches to withdraw the platform from the vehicle (deploy) and lower it to ground level. The passenger is placed on the platform and then lifted to floor height. After the passenger enters the vehicle, the operator lowers the platform and retracts it back into the vehicle (stow). For an exiting passenger, the operator withdraws the platform from the vehicle (deploy) and raises it to floor height. The passenger is placed on the platform and then lowered to the ground. The passenger departs, and the operator returns the platform to the stowed position in the vehicle.



One individual can manually operate the lift when normal power is not present. A manual release mechanism is provided to ease the task of pulling the platform out of its enclosure. The hydraulic pump assembly includes a manually operated back-up pump to raise the platform, and a pressure release valve to lower it. The front platform rollstop, normally power operated, has a manual override knob for back-up use.

This manual contains complete operating instructions for the lift, and a brief maintenance chapter. It is important to passenger safety that the lift operator be familiar with the Operating Instructions chapter. It is also important to properly maintain the lift by following the recommended cleaning, lubrication, and inspection directions in the Maintenance chapter.

A. PRODUCT SUPPORT

Please contact Ricon Product Support if you have questions about this manual, or need additional copies:

Ricon Corporation
7900 Nelson Road
Panorama City, CA 91402 (818) 267-3000
Outside (818) Area Code..... (800) 322-2884
World Wide Website www.riconcorp.com

Littlemoss Business Park, Littlemoss Road
Droylsden, Manchester
United Kingdom, M43 7EF (+44) 161 301 6000

B. PRODUCT WARRANTY

RICON MIRAGE F9TF PUBLIC USE WHEELCHAIR LIFT TWO-YEAR LIMITED WARRANTY

Ricon Corporation (Ricon) warrants to 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-years from the date of purchase. A complete list of parts covered by this warranty can be obtained from Ricon Product Support.
- Labor costs for specified parts replaced under this warranty for a period of two-years from the date the lift is put into service. 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 vehicle, road hazards, overloading, failure to follow operating instructions, or acts of nature (i.e., weather, lightning, flood).

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

WARNING

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

This warranty is void if:

- The product has been installed or maintained by someone other than a Ricon authorized 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.

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.

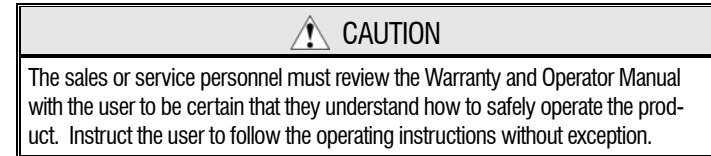
Important: The warranty registration card must be completed and returned to Ricon within 20 days after installation of this Ricon product for the warranty to be valid. The warranty is not transferable.

The warranty gives specific legal rights, and there may be other rights that vary from state to state.

C. SHIPMENT INFORMATION

- When the product is received, unpack the product and check for freight damage. Claims for any damage should be made to the 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.

D. GENERAL SAFETY PRECAUTIONS



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

- 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.
- Read and thoroughly understand the operating instructions before attempting to operate.
- Inspect the product before each use. If an unsafe condition, unusual noises or movements exist, do not use it until the problem is corrected.
- Stand clear of doors and platform and keep others clear during operation.
- The product requires regular periodic maintenance. A thorough inspection is recommended at least once every six months. The product should be maintained at the highest level of performance.

E. MAJOR LIFT COMPONENTS

Major components of the Mirage F9TF Public Use wheelchair lift are in **Figure 1-1**. A description of each component is in **Table 1-1**.

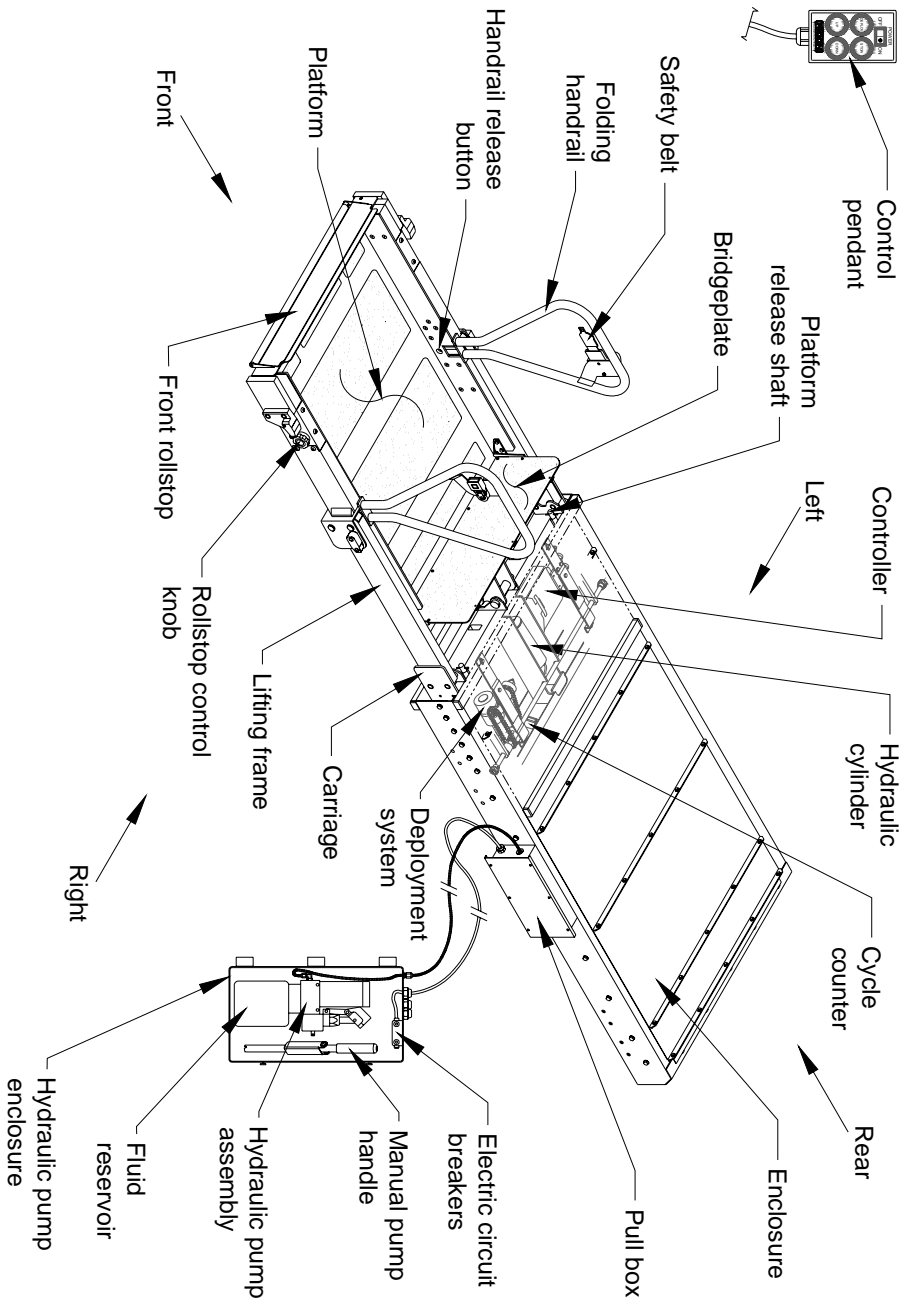


FIGURE 1-1: LIFT COMPONENTS FOR MIRAGE F9TF MODEL

TABLE 1-1: LIFT TERMS FOR F9TF PUBLIC USE MODEL	
TERM	DESCRIPTION
Left, Right, Front, Rear	Reference points from outside vehicle looking inward at lift.
Hydraulic pump enclosure	Contains lift hydraulic and electrical control components. Also houses manual backup pump handle.
Electric circuit breakers	Prevent high-current damage to electrical control components. Do not protect hydraulic pump motor.
Hydraulic pump assy	Electro-hydraulic unit provides hydraulic pressure used to raise platform. Also mounts components for manual operation.
Manual pump handle	Used to manually operate hydraulic backup pump and pressure release valve when electrical power is not available. Also used to rotate platform release shafts.
Pull box	Houses electrical termination points to lift, and a hydraulic line disconnect point. Also accepts input harness from control pendant.
Control pendant	Hand-held device used to control platform motions.
Carriage	Part of traveling frame that is mounted on rollers; moves on rails located inside enclosure. Supports lifting frame and platform.
Cycle counter	Located on rear frame of carriage. Visible when platform is fully deployed. It records number of times platform has moved from floor to ground and back to floor.
Deployment system	Located within carriage. Employs an electric gear-motor to propel platform out of enclosure, or pull it back into enclosure.
Hydraulic cylinder	Located within carriage and connected to lifting frame. Receives pressurized fluid from hydraulic pump to lift platform.
Platform release shaft	(left and right) Used during manual operation of lift. Disengages platform from enclosure to facilitate manual deployment. Engage and rotate either shaft with manual pump handle.
Fluid reservoir	Container holds hydraulic fluid that is used by hydraulic system.
Lifting frame	Assembly is hinged to front of carriage and to center of platform; raised by single hydraulic cylinder attached to carriage.
Rollstop control knob	Provides manual control of rollstop if electrical power is not available.
Front rollstop	Front barrier prevents wheelchair from inadvertently rolling off platform during platform movement.
Platform	Curbed area where passenger resides while being raised to vehicle or lowered to ground.
Safety belt	Safety restraint belt that spans between handrails to help confine passenger to platform area.
Folding handrail	(left and right) Provides a handhold for standing passenger (standee).

TABLE 1-1: LIFT TERMS FOR F9TF PUBLIC USE MODEL	
TERM	DESCRIPTION
Bridgeplate	Plate bridges gap between platform and vehicle floor when platform is at floor level. Acts as barrier during up and down platform motions to prevent wheelchair from rolling off rear of platform.
Enclosure	Platform housing that is rigidly attached to vehicle chassis.
Controller	Receives electrical input signals from pendant and lift sensors and sends control signals to lift electrical and hydraulic components.
Travelling frame	(not shown as unit) Assembly comprised of carriage, lifting frame, and platform.
END OF TABLE	

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