



*Innovation in Mobility*

**SpacePRO™  
HC-L SERIES  
MOTOR COACH ACCESS  
LIFT**

[Table Of Contents](#)

[Print Entire Manual \(5703KB\)](#)

**SERVICE MANUAL**

09/23/02

32DF9D02.B

© 1995-2002 RICON CORPORATION

All Rights Reserved

U.S. Patent Nos. 5,228,538; 5,253,973; 5,373,915; 5,556,250;  
Australian Patent Nos. 661127, 680501; Canadian Patent No. 2,129,821; French Patent No. 0-446-224;  
German Patent Nos. 68925368.0-08, EP 0625896 B1; U.K. Patent Nos. EP 0625896 B1, EP 0703766,  
GB 2,224,992 B; Other U.S. and foreign patents pending.

Printed in the United States of America

**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 Ricon authorized service technician in your area, call Ricon Product Support at 1-800-322-2884.**

## REVISION RECORD

REV	PAGES	DESCRIPTION OF CHANGE	ECR/ ECO
32DF9D02 .B	5-1	Added third bullet to note.	
	5-5	Added p/n's 20991, 19654, 19676, 26284.	
	5-6	Redrew figure in area of item 4.	
	5-12	Added reference note for item 3. Added reference callout item 24.	
	5-14	Added p/n's 22206, 22212, 19298, 21091, 18113.	
	5-21	Changed p/n 22023 to 14439; added p/n 22062.	NA
	5-25	Added p/n 20958.	
	5-27	Added p/n 20959.	
	INSIDE COVER	Updated disclaimer on inside cover.	3990/4918
2-2	Added torque requirement to para A.2.c.		
<b>END OF TABLE</b>			

**NOTE:** Determine whether revisions made to this manual will impact the HC-L Equipment Installation Verification checklist (32EIVF9D). Revise the EIV, as necessary.

# TABLE OF CONTENTS

<u>Chapter</u>	<u>Page</u>
<b>I. SPACEPRO INTRODUCTION .....</b>	<b>1-1</b>
A. WARRANTY INFORMATION .....	1-2
B. SHIPMENT INFORMATION .....	1-3
C. GENERAL SAFETY PRECAUTIONS .....	1-3
D. MAJOR LIFT COMPONENTS .....	1-4
<b>II. SPACEPRO INSTALLATION.....</b>	<b>2-1</b>
A. MECHANICAL.....	2-1
1. LIFT POSITIONING NOTES .....	2-1
2. LIFT MOUNTING NOTES .....	2-1
3. HYDRAULIC POWER UNIT .....	2-2
B. ELECTRICAL .....	2-3
C. SAFETY INTERLOCKS .....	2-3
D. FINAL ADJUSTMENTS .....	2-4
1. HYDRAULIC BLEEDING.....	2-4
2. PLATFORM VERTICAL TRAVEL LIMIT ADJUSTMENT .....	2-5
3. BRIDGEPLATE ACTUATOR ROD ADJUSTMENT .....	2-6
4. PLATFORM STOW HEIGHT AND INTERMEDIATE HEIGHT ADJUSTMENTS .....	2-7
5. ANTI-STOW PRESSURE SWITCH ADJUSTMENT .....	2-9
6. ROLLSTOP ADJUSTMENT .....	2-10
7. VERIFY INSTALLATION .....	2-10
E. CUSTOMER ORIENTATION.....	2-10
<b>III. SPACEPRO MAINTENANCE .....</b>	<b>3-1</b>
A. MAINTENANCE SCHEDULE .....	3-1
1. MAINTENANCE INTERVAL CHARTS.....	3-1
B. MAINTENANCE CHECKLIST.....	3-3
C. HYDRAULIC SYSTEM DIAGRAM.....	3-5
D. ELECTRICAL DIAGRAM .....	3-6
1. DIAGRAM LEGENDS.....	3-6
2. ELECTRICAL DIAGRAM.....	3-7
<b>IV. SPACEPRO MAJOR COMPONENT SERVICE .....</b>	<b>4-1</b>
A. GENERAL SAFETY PRECAUTIONS.....	4-1
B. LIFT ACCESS FOR SERVICE .....	4-1
C. TRAVELLING FRAME .....	4-1
1. ROLLSTOP MAINTENANCE .....	4-2
2. BRIDGEPLATE MAINTENANCE .....	4-6
3. CARRIAGE AND LIFTING FRAME MAINTENANCE .....	4-7
4. PLATFORM REMOVAL .....	4-7
5. LIFTING FRAME REMOVAL.....	4-9
6. CARRIAGE REMOVAL .....	4-10
D. DEPLOYMENT SYSTEM.....	4-12
1. CARRIAGE DRIVE MOTOR ASSEMBLY .....	4-12
2. DRIVE CHAIN SERVICE.....	4-14
3. CARRIAGE LOCK ASSEMBLY.....	4-18
E. HYDRAULIC SYSTEM.....	4-19
1. SYSTEM FLUID RENEWAL.....	4-19
2. ELECTRIC PUMP MOTOR .....	4-20
3. HYDRAULIC CYLINDERS .....	4-21

4.	ANTI-STOW PRESSURE SWITCH ADJUSTMENT.....	4-23
5.	HYDRAULIC HOSE AND MAIN ELECTRICAL HARNESS.....	4-23
F.	ELECTRICAL CONTROLS .....	4-25
1.	GENERAL PROCEDURE FOR LIMIT SWITCH REPLACEMENT.....	4-25
2.	REPLACEMENT OF ELECTRONIC CONTROLLER .....	4-25
3.	HYDRAULIC HOSE AND MAIN ELECTRICAL HARNESS.....	4-26
<b>V.</b>	<b>SPACEPRO SPARE PARTS .....</b>	<b>5-1</b>
1.	HC-L DECAL LOCATIONS AND PART NUMBERS.....	5-2
2.	HC-L PUMP ASSEMBLY .....	5-4
3.	HC-L LIFTING FRAME ASSEMBLY .....	5-6
4.	HC-L ENCLOSURE ASSEMBLY .....	5-8
5.	HC-L PLATFORM ASSEMBLY.....	5-10
6.	HC-L CARRIAGE ASSEMBLY, SHEET 1 .....	5-12
7.	HC-L CARRIAGE ASSEMBLY, SHEET 2 .....	5-13
8.	HC-L POWER ROLLSTOP ASSEMBLY, RIGHT HAND.....	5-16
9.	HC-L POWER ROLLSTOP ASSEMBLY, LEFT HAND .....	5-18
10.	HC-L BRIDGEPLATE ASSEMBLY .....	5-20
11.	HC-L MOTOR ASSEMBLY.....	5-22
12.	HC-L RELEASE HANDLE ASSEMBLY AND PENDANT ASSEMBLY.....	5-24
13.	HC-L CARRIAGE LOCK ASSEMBLY.....	5-26
	HC-L LIFT SPECIFICATIONS .....	5-28

[Back to front cover-](#)

[Go to next chapter-](#)