SECTION FOUR SERVICE AND MAINTENANCE GUIDE

VELOPORTER 2

FIG 1: VELOPORTER BIKE RACK VISUAL INSPECTION

Top View



VELOPORTER BIKE RACK VISUAL INSPECTION

Sportworks recommends the following quick visual inspection to ensure an operable bike rack. Use this page as an inspection sheet for your transit operators.

Examine the items below before operating your coach. If the bike rack does not function properly, service it before putting it into operation.

- 2._____ $\sqrt{\text{STOW LATCH IS PRESENT (2 PLACES)}}$ Replace if missing. These Latches stow the hook arms.
- 3.) _____√SUPPORT ARMS SLIDE IN/ OUT (2 PLACES) Handles move smoothly in/out and self stows on latch. DO NOT LUBRICATE

VELOPORTER MAINTENANCE

Fig 2: The V2 and its accompanying brackets require very little service. Regular suggested maintenance checks are included below.



30 DAY GENERAL MAINTENANCE INSPECTION & SERVICE

Check every 30 days to insure that.

- 1. The rack swings freely and smoothly between the deployed and stowed positions.
- 2. The latch handle easily unlatches and does not stick in the release position.
- 3. The latch handle automatically locks the rack in place when moved to the deployed or stowed positions.
- 4. Each support arm hinge allows the support arm to raise and lower without undue constraint or too much play.
- 5. Each support arm stow latch properly mates with and holds the support arm grip.
- 6. Each support arm grip pulls out smoothly to the end stop, and easily slides back into the stored position, and properly self stows on the stow latch when it is released. DO NOT LUBRICATE.
- 7. Both pivot bolt assemblies are tight. If you see excessive wear or cracks in the bronze oilite bushings you must replace them immediately. Some cutaway vehicles tend to cause the bushings to wear more quickly. You can replace the originals with our heavy duty pivot bolt kit P/N 100839 for longer life.
- 8. All fasteners are tight on the mounting bracket, including the hardware for the quadrant, pivot plate to bracket pieces, and bracket pieces to bumper or coach body.
- 9. The instruction labels on the rack are intact. Replace if shredded, partially removed, non-readable, or not adhering properly. Clean the rack surface thoroughly (isopropyl alcohol) before replacing.



SERVICING

In addition to the 30 day general maintenance and service inspections, there are more specific service guidelines to follow in maintaining the Sportworks' bike rack. The guidelines are easy to follow and should be done so every 30 days. If there are problems with the bike rack or mounting bracket, replace or repair them to proper working order and return them to service. Contact Sportworks for parts.

SERVICING THE VELOPORTER BIKE RACK

Service every 6 months

- 1) If the bike rack is not raising and lowering with ease, check the two pivot bolt assemblies for incorrect installation or wear. Replace the assemblies if damaged. Check that the pivot tabs are straight and aligned to properly pivot the bike rack. Straighten the tabs as required.
- 2) Check the pivot plate for correct alignment and damage. Remove and straighten the pivot plate if it is not straight.
- 3) Check the stow latch and the support arm grip latching teeth. If they are broken or worn, replace the necessary parts.
- 4) Check the wheel stop for damage. Replace if necessary.
- 5) Check the urethane wheel wells for cracks or damage. Replace if necessary. To replace, remove the six screws attaching the tray to the frame. The tray engages with two sleeves in the location of the wheel stop. Use a screw driver or small pry bar to spread the tray flanges off the two sleeves. Slide the wheel stop off of the tray. Reverse steps for installation of the new tray.
- 6) Examine the structural integrity of the round tubing of the main frame. Repair or replace the bike rack if damaged.

FIG 3: SERVICING THE VELOPORTER LATCH HANDLE

Service every 6 months



Assembly Parts List					
ITEM	QTY	PART#	TITLE		
1	1	7098	LATCH PIN RIVET		
2	1	9651	VeloPorter Latch Pin		
3	1	7072	PIN, ROLL 5/32 X .75,SS		
4	1	9656	Washer, 0.631 ID x 0.812 OD x .030, SS		
5	1	9657	Spring, 0.626 ID x 0.750 OD x 1.250 x .062		
			SS Wire		
6	1	9650	VeloPorter Latch Handle Tube		
7	1	9661	VeloPorter Latch Handle		
8	1	9668	Type 420 Stainless Steel Spring Pin 3/16"		
			Diameter, 1" Length		

**NOTE: PLEASE ASK SALES FOR 6 DIGIT FINISHED GOODS P/N

- 1) Check that the latch handle for damage. Replace if necessary.
- 2) Check the latch handle tube for straightness. Straighten or replace if necessary.
- 3) Examine the wear of the plastic insert in the tip of the latch pin. Replace the insert if the quadrant is being marred by the latch pin.
- 4) If the latch pin does not properly track on the quadrant, check that the quadrant is attached tightly and squarely to the pivot plate. Replace the quadrant if damaged.
- 5) Examine latch components:
 - a) Check that the roll pin fixing the return spring is fully engaged.
 - b) Check the wear on the spring. Clean the spring and replace it if it is distorted or not functioning properly.
 - c) Check the latch pin housing for damage.

FIG 4: SERVICING THE VELOPORTER SUPPORT ARM ASSEMBLY



**NOTE: PLEASE ASK SALES FOR 6 DIGIT FINISHED GOODS P/N

- 1) Examine the components inside of the support arm assembly.
 - a) Remove the bolts attaching the support arm assembly to wheel stop.
 - b) Remove the support arm grip. Note. The lower Phillips screw fixes one end of the spring. Remove the roll pin from the base of the support arm housing. This fixes the other end of the spring.
 - c) Carefully slide the support arm spar out from the bottom end of the support arm housing. Make note of how the two nylon slider bushings fit at the base of the support arm spar. Also note that the four upper bushings engage into the four holes in the housing. Re-assembling the upper bushings may require some practice.
 - d) Remove the roll pin on the support arm housing to free the support arm spring. Clean the spring and examine it for wear, overstress, and cyclical fatigue. Pay special attention to the end hooks of the spring. Replace the spring as necessary.
 - e) Clean the inside of the stainless steel support arm housing using a stainless steel brush. Do not use a non-stainless wire brush.
 - f) Examine the upper and lower bushings. Replace them if they are excessively worn or marred. Replace them if the support arm spar is not tracking correctly (i.e. there is too much twist).
 - g) Re-assemble the support arm assembly in the reverse order of steps a-d. Use a simple hook made of stiff wire or similar tool to pull the spring into position when re-inserting the roll pin through the base of the support arm housing and the end hook of the spring.
 - i) Check the operation of the support arm assembly once again. Each support arm hook should pull out smoothly, stop at the stop screw, easily slide back into the stored position, and properly self stow when it is released.
- 2) If the support arm spar is bent it should be replaced.
- 3) Examine the support arm assembly mounting pivot. Check the pivot for side play. Side play can be adjusted by tightening the 3/8-16 nylock nut. Do not over tighten. The pivot should be free with a small amount of play. With the support arm assembly vertical and fully retracted lightly push the grip towards the front of the bus and then away from the bus. If total movement exceeds 2", replace the worn parts. DO NOT LUBRICATE.

VELOPORTER 3 FIG 1: VELOPORTER 3 BIKE RACK VISUAL INSPECTION



VELOPORTER BIKE RACK VISUAL INSPECTION

Sportworks recommends the following quick visual inspection to ensure an operable bike rack. Use this page as an inspection sheet for your transit operators.

Examine the items below before operating your coach. If the bike rack does not function properly, service it before putting it into operation.

- 1) ______ $\sqrt{}$ BOLTS ARE PRESENT—SECURE SUPPORT ARMS TO FRAME (3 PLACES) Replace missing bolts. 2. $\sqrt{\text{STOW LATCH IS PRESENT (3 PLACES)}}$ Replace if missing. These Latches stow the hook arms. 3.) _____√ SUPPORT ARM GRIP (3 PLACES) Replace Grip if damaged or cracked Handles move smoothly in/out and ratchets work properly. DO NOT LUBRICATE 4.B) _____√SUPPORT ARMS SELF STOW (3 PLACES) Support Arms should rotate freely and drop and engage with Stow Stop when raised six inches. Side to side play should be just enough to rotate freely. 5.) _______VLATCH HANDLE WORKS Latch is easy to engage and release. 6.) $\sqrt{WHEEL STOP IS SECURE}$ Tighten Phillips 5/16-18 screws as necessary.

VELOPORTER 3 MAINTENANCE

Fig 2: The V3 and its accompanying brackets require very little service. Regular suggested maintenance checks are included below.



30 DAY GENERAL MAINTENANCE INSPECTION & SERVICE

Check every 30 days to insure that:

- 1. The rack swings freely and smoothly between the deployed and stowed positions.
- 2. The latch handle easily unlatches and does not stick in the release position.
- 3. The latch handle automatically locks the rack in place when moved to the deployed or stowed positions.
- 4. Each support arm hinge allows the support arm to raise and lower without undue constraint or too much play.
- 5. Each support arm stow latch properly mates with and holds the support arm grip.
- Support Arm Ratchet Knob depresses and returns freely. With ratchet knob depressed each support arm pulls out smoothly to the end stop, and easily slides back into the stored position. Ratchet buttons engage and disengage with support arm house when ratchet knob is activated. DO NOT LUBRICATE.
- 7. Both pivot bolt assemblies are tight. If you see excessive wear or cracks in the bronze oilite bushings you must replace them immediately. Some cutaway vehicles tend to cause the bushings to wear more quickly. You can replace the originals with our heavy duty pivot bolt kit P/N 100839 for longer life.
- 8. All fasteners are tight on the mounting bracket, including the hardware for the quadrant, pivot plate to bracket pieces, and bracket pieces to bumper or coach body.
- 10. The instruction labels on the rack are intact. Replace if shredded, partially removed, non-readable, or not adhering properly. Clean the rack surface thoroughly (isopropyl alcohol) before replacing.



SERVICING

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In addition to the 30 day general maintenance and service inspections, there are more specific service guidelines to follow in maintaining the Sportworks' bike rack. The guidelines are easy to follow and should be done so every 30 days. If there are problems with the bike rack or mounting bracket, replace or repair them to proper working order and return them to service. Contact Sportworks for parts.

SERVICING THE VELOPORTER 3 BIKE RACK

Service every 6 months days

- 1) If the bike rack is not raising and lowering with ease, check the two pivot bolt assemblies for incorrect installation or wear. Replace the assemblies if damaged. Check that the pivot tabs are straight and aligned to properly pivot the bike rack. Straighten the tabs as required.
- 2) Check the pivot plate for correct alignment and damage. Remove and straighten the pivot plate if it is not straight.
- 3) Check the stow latch and the support arm grip latching teeth. If they are broken or worn, replace the necessary parts.
- 4) Check the wheel stop for damage. Replace if necessary.
- 5) Check the urethane wheel wells for cracks or damage. Replace if necessary. To replace, remove the six screws attaching the tray to the frame. The tray engages with two sleeves in the location of the wheel stop. Use a screw driver or small pry bar to spread the tray flanges off the two sleeves. Slide the wheel stop off of the tray. Reverse steps for installation of the new tray.

6) Examine the structural integrity of the round tubing of the main frame. Repair or replace the bike rack if damaged.

FIG 3: SERVICING THE VELOPORTER 3 LATCH HANDLE

Service every 6 months



Assembly Parts List				
ITEM	QTY	PART#	TITLE	
1	1	7098	LATCH PIN RIVET	
2	1	9651	VeloPorter Latch Pin	
3	1	7072	PIN, ROLL, .15625 OD x .875, 18-8	
			Stainless	
4	1	9656	Washer, 0.631 ID x 0.812 OD x .030, SS	
5	1	9657	SPRING, .640 ID x .070 WIRE x 1.5L,	
			Stainless, for Veloporter Latch	
6	1	9978	VeloPorter 3 Latch Handle Tube	
7	1	9661	VeloPorter Latch Handle	
9	1	7014	PIN, ROLL 3/16 X 1 SS	

NOTE: REPLACEMENT P/N FOR LATCH HANDLE IS 100704

- 1) Check that the latch handle for damage. Replace if necessary.
- 2) Check the latch handle tube for straightness. Straighten or replace if necessary.
- 3) Examine the wear of the plastic insert in the tip of the latch pin. Replace the insert if the quadrant is being marred by the latch pin.
- 4) If the latch pin does not properly track on the quadrant, check that the quadrant is attached tightly and squarely to the pivot plate. Replace the quadrant if damaged.
- 5) Examine latch components:
 - a) Check that the roll pin fixing the return spring is fully engaged.
 - b) Check the wear on the spring. Clean the spring and replace it if it is distorted or not functioning properly.

c) Check the latch pin housing for damage.

FIG 4: SERVICING THE VELOPORTER RATCHET SUPPORT ARM ASSEMBLY

Service every 6 months

19

2012

1 3464

		SPL	IT RING TO HOUSING	DWARDS WASHER 14 14 14	13	6		
			А	ssembly Parts List			A	Assembly Parts List
T	TEM	QTY	PART#	TITLE	ITEM	QTY	PART#	TITLE
	6	1	3359	Veloporter Ratchet Arm Grip	15	4	9645	VeloPorter Upper Bushing
	8	1	3363-PEN	VeloPorter Support Arm Housing Anti	16	2	9655	18-8 SS Pan Head Phillips Machine
				Glare				Screw 10-32 Thread, 1-3/8" Length
	9	1	3368	Ratchet Arm Release Rod Assembly	17	1	3573	SPRING, Extension, V3 Ratchet
	10	2	3390	VELOPORTER RATCHET ARM				Support Arm Spring
				LOWER BUSHING	4	1	3354	Ratchet Arm Release Rod Return
	13	1	7299	PIN, CLEVIS, 3/16 X 1 1/4 SS	-			Spring, SS, 0.24 OD X .035 WIRE X
	14	1	7302	RING, SPLIT, .670 O.D. X .051 WIRE				2.50 length, 7.4 lb/in rate
				DIA, SS	18	2	9793	18-8 Stainless Steel Toplock Locknut

**NOTE: PLEASE ASK SALES FOR 6 DIGIT FINISHED GOODS P/N

Ratchet Spar Sub Assembly

- 1) Examine the components inside of the support arm assembly.
 - a) Remove the bolts attaching the support arm assembly to wheel stop.

Hex, 10-32 Screw Size, 3/8" Width,

V3 Ratchet Arm Release Knob

1/8" Height

1 3347

1

- b) Remove the ratchet knob taking care not to lose the small spring on the end of the rod. Note. The upper Phillips screw fixes the ratchet knob, the lower Phillips screw fixes one end of the spring. Remove the roll pin from the base of the support arm housing. This fixes the other end of the spring.
- c) Carefully slide the support arm spar out from the bottom end of the support arm housing. Make note of how the two nylon slider bushings fit at the base of the support arm spar. Also note that the four upper bushings engage into the four holes in the housing. Re-assembling the upper bushings may require some practice.
- d) Remove the roll pin on the support arm housing to free the support arm spring. Clean the spring and examine it for wear, overstress, and cyclical fatigue. Pay special attention to the end hooks of the spring. Replace the spring as necessary.
- e) Clean the inside of the stainless steel support arm housing using a stainless steel brush. Do not use a non-stainless wire brush.
- f) Examine the upper and lower bushings. Replace them if they are excessively worn or marred. Replace them if the support arm spar is not tracking correctly (i.e. there is too much twist).
- g) Re-assemble the support arm assembly in the reverse order of steps a-d. Use a simple hook made of stiff wire or similar tool to pull the spring into position when re-inserting the roll pin through the base of the support arm housing and the end hook of the spring.
- i) Check the operation of the ratchet knob and support arm assembly once again. Each support arm hook should engage and disengage with the ratchet slots in the housing, pull out smoothly, stop at the stop screw, easily slide back into the stored position, and properly self stow when it is released.
- 2) If the support arm spar is bent it should be replaced.
- 3) Examine the support arm assembly mounting pivot. Check the pivot for side play. Side play can be adjusted by tightening the 3/8-16 nylock nut. Do not over tighten. The pivot should be free with a small amount of play. With the support arm assembly vertical and fully retracted lightly push the grip towards the front of the bus and then away from the bus. If total movement exceeds 2", replace the worn parts. DO NOT LUBRICATE.

DL2 BIKE RACK

FIG 1: DL2 VISUAL INSPECTION

<u>Top View</u>



Side View

BIKE RACK VISUAL INSPECTION

Sportworks recommends the following quick visual inspection to ensure an operable bike rack. Use this page as an inspection sheet for your transit operators.

Examine the 7 items below before operating your coach. If the bike rack does not function properly, service it before putting it into operation.

1)	_√HEX CAP IS TIGHT Tighten by hand (preferably by tool) if required.
2)	_√ENDPLUGS ARE PRESENT (2 PLACES) Replace plugs if missing or damaged.
3)	_√BOLTS ARE PRESENT—SECURE ARMS TO FRAME (4 PLACES) Replace missing bolts.
4)	$_{\rm MAGNETS}$ ARE PRESENT (2 PLACES) Replace if missing. These magnets stow the hook arms.
5)	_√HOOK ARMS SLIDE IN/ OUT (2 PLACES) Hooks move smoothly in/out and self-stow on magnet. DO NOT LUBRICATE.
6)	_√LATCH HANDLE WORKS Latch is easy to release and does not get stuck.
7)	$_{\rm V}$ BIKE RACK SWINGS FREELY AND LOCKS IN TWO POSITIONS Rack pivots and locks in both the deployed and stored positions.

FIG 2: DL2 MAINTENANCE

The DL2 and its accompanying brackets require very little service. Regular suggested maintenance checks are included below.



30 DAY GENERAL MAINTENANCE INSPECTION & SERVICE

Check every 30 days to insure that:

- 1. The rack swings freely and smoothly between the deployed and stored positions.
- 2. The release latch easily unlatches and does not stick in the release position.
- 3. The release latch automatically locks the rack in place when moved to the deployed or stored positions.
- 4. Each support arm hinge allows the support arm to raise and lower without undue constraint.
- 5. Each support arm magnet properly mates with and holds the support arm.
- 6. Each support arm hook pulls out smoothly, stops at the stop screw, easily slides back into the stored position, and properly self stows on the magnet when it is released.
- 7. Both pivot bolt assemblies are tight. If you see excessive wear or cracks in the bronze oilite bushings you must replace them immediately. Some cutaway vehicles tend to cause the bushings to wear more quickly. You can replace the originals with our heavy duty pivot bolt kit P/N 100839 for longer life.
- 8. All fasteners are tight on the mounting bracket, including the hardware for the support strap, quadrant, pivot plate to bracket pieces, and bracket pieces to bumper or coach body.
- 9. There are two black plastic end plugs inserted into the main frame of the rack located near the ends of the lowering tube (the tube one grabs to engage the release latch). Replace if missing.
- 10. Check Torsion Spring Wear Pad for excessive wear or loose attachment to frame.
- 11. Torsion Spring Pivot Bolts are tight.
- 12. The instruction labels on the rack are intact. Replace if shredded, partially removed, non-readable, or not adhering properly. Clean the rack surface thoroughly (isopropyl alcohol) before replacing. Pay particular attention to the chain guard sticker.
- 13. If surface rust develops on stainless steel use naval jelly to remove.



SERVICING

In addition to the 30 day general maintenance and service inspections, there are more specific service guidelines to follow in maintaining the Sportworks' bike rack. The guidelines are easy to follow and should be done so every 30 days. If there are problems with the bike rack or mounting bracket, replace or repair them to proper working order and return them to service. Contact Sportworks for parts.

SERVICING THE DL2 BIKE RACK

Service every 30 days

- If the bike rack is not raising and lowering with ease, check the two pivot bolt assemblies for incorrect installation or wear. Replace the assemblies if damaged. Check that the pivot tabs are straight and aligned to properly pivot the bike rack. Straighten the tabs as required.
- 2) Check the pivot plate for correct alignment and damage. Remove and straighten the pivot plate if it is not straight.
- 3) If the bike rack magnet does not properly mate with the support arm, check the alignment of the magnet arm (the steel strap securing the magnet to the bike rack). Tweak the magnet arm as required.
- Make sure the fasteners holding the magnet assemblies to the magnet arm are tight. Examine the magnet and magnet housing for wear. Replace if damaged.
- 5) Examine the structural integrity of the main loops, saddle pieces, and the rectangular tubing of the main frame. Repair or replace the bike rack if damaged.

FIG 3: SERVICING THE DL2 LATCH MECHANISM

Service every 6 months



Item #	PART #	NAME	DESCRIPTION
1	100190	Latch Handle	DI 2 Latch Handle with Poll Pin
2	100180	Roll Pin	DL2 Later Handle with Koll Fill
3		Hex Cap	
4		Spring	
5	100179	Rotor Clip	DI 2 Lotob Din Apov
6		Washer	DL2 LAICH PIN ASSY
7		Latch Pin	
8		Rivet	

- 1) Check that the release handle and handle stem are straight. Straighten them if they are bent out of line.
- 2) Examine the wear of the plastic insert in the tip of the latch pin. Replace the insert if the latch quadrant is being marred by the latch pin.
- If the latch pin does not properly track on the latch quadrant, check that the quadrant is attached tightly and squarely to the pivot plate. Replace the quadrant if damaged.
- 4) Examine the components inside of the latch housing.
 - a) Remove the roll pin attaching the latch stem to the latch pin.
 - b) After removing the roll pin, pull on the release handle to separate the latch stem from the latch pin.

- c) Unscrew the latch capnut and remove the components from inside the latch housing.
- d) Check the wear on the spring. Clean the spring and replace it if it is distorted or not functioning properly.
- e) Check the snap ring on the latch pin. Replace the snap ring if it is cracked, broken, or warped.
- f) Remove any dirt and debris from inside the latch housing.
- g) Re-assemble the latch mechanism in the reverse order of steps a-c.

DO NOT LUBRICATE.

FIG 4: SERVICING THE SUPPORT ARM

Service every 6 months



Parts	&	Service	Fig.	5
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ITEM	PART #	NAME	DESCRIPTION
1		Arm Housing Weldment	
2		Washer, Nylon	Support Arm Housing, SS
3	100504	PHCS, 6-32 x 5/16, S/S	NP, DL2 and Middle
4	100394	1/4-20 SS Screw, Washer &	Position Trilogy
		Nut	
5		Standard Support Arm	
		Hook – Stainless	
6	100112	Grip, Molded	Support Arm Hook
7		Acetal Slider Piece	
8		Stop Plate	
9		Spring	
10		Pin, Roll 3/16 x 1 , S/S	
11	100110	Pin, Clevis, 3/16 x 1 1/4,	Support Arm Spring Kit
		S/S	
12		Ring, Split, S/S	

- 1) Examine the components inside of the support arm.
 - a) Remove the bolts attaching the support arm hinge to the bike rack.
 - b) Remove the stop screw at the top (washer end) of the support arm housing. Remove the roll pin from the base of the support arm housing.
 - c) Carefully slide the stainless steel hook arm out from the support arm housing. Make note of how the two nylon slider keys and stop plate fit at the base of the hook arm.
 - d) Remove the roll pin on the hook arm to free the support arm spring. Clean the spring and examine it for wear, overstress, and cyclical fatigue. Pay special attention to the end hooks of the spring. Replace the spring as necessary.
 - e) Clean the inside of the stainless steel support arm housing using a stainless steel brush. Do not use a non-stainless wire brush.
 - f) Examine the two nylon slider keys that rest at the base of the hook arm. Replace them if they are excessively worn or marred. Replace them if the support tube is not tracking correctly (i.e. there is too much twist).
 - g) Examine the stop plate that rests at the base of the hook arm. Replace it if excessively worn, marred, cracked, or has any broken corners.
 - h) Re-assemble the support arm in the reverse order of steps a-d. Use a simple hook made of stiff wire or similar tool to pull the spring into position when re-inserting the roll pin through the base of the support arm housing and the end hook of the spring.
 - Check the operation of the support arm once again. Each support arm hook should pull out smoothly, stop at the stop screw, easily slide back into the stored position, and properly self stow on the magnet when it is released.
- Straighten the support arm hook if it is bent, especially the portion of the hook that rests inside of the support arm housing--the hook may "freeze" up until it is straightened properly. DO NOT LUBRICATE.
- 3) Examine the support arm hinge. Check the hinge for side play and warpage. With the support arm vertical and the hook fully retracted lightly push the hook towards the front of the bus and then away from the bus. If total movement exceeds 2", replace the support arm housing.
- 4) Examine the grip on the hook of the hook arm. Replace it if ripped, gouged, or worn thin.

INSTALLATION INSTRUCTIONS FOR SUPPORT ARM GRIPS

1) Secure Hook / Support Arm Assembly.

2) Use a 20-30% Palmolive [™]/ Water or equivalent dish soap solution.

3) Apply solution to hook tube and to inside of foam grip.

4) Slide grip onto hook; it will be necessary to twist and work grip past bend in short, incremental movements.

5) Slide grip until it bottoms out on end of hook tube, being careful not to compromise the end of the grip by stretching it too tightly.

6) Allow 1 hour for solution to evaporate and grip to tighten. Always test the grip before putting into service to ensure proper adhesion.



INTERLOCK INTERIOR BIKE RACK



INTERLOCK BIKE RACK VISUAL INSPECTION

Sportworks recommends the following quick visual inspection to ensure an operable interior bike rack. Use this page as an inspection sheet for your transit operators.

Examine the items below before operating your coach. If the Interlock bike rack does not function properly, service it before putting it into operation.

- SCISSOR NUTS ARE IN PLACE- Verify that lock nuts are in place and adjusted properly. Front Wheel Assembly should move up and down freely. Replace or adjust nuts if needed.
- MOUNTING FASTENERS ARE SECURE- Verify that Upper Assembly socket head cap screws are secure. Replace or tighten if needed.
- 3) _____√ HOOK GRIP Verify that grip is in place and not damaged. Replace if needed.
- 4) _____√ REAR WHEEL STRAP - Verify that strap is in place and not damaged. Replace if needed.
- 5) _____√ MOUNTING FASTENERS ARE SECURE- Verify that Lower





**NOTE: PLEASE ASK SALES FOR 6 DIGIT FINISHED GOODS P/N

ITEM #	QTY	P/N	DESCRIPTION
1	7	7013	WASHER, FLAT, 3/8 SS
2	4	9306	Washer, UHMW, .375 x .75 x .062 Thick
3	2	9304-PEN	Interior Rack Pinch Arm, Beadblast
4	1	9321	BHCS, 18-8 SS, 10-32 Thread, 3/8" Length
5	1	7159	WASHER, SAE #10, S/S
6	4	9534	Stud, Locking, 3/8-16 x 3.312
7	1	3924-PEN	Static Frame, LH 40 Deg, Bead Blast
8	3	7195	BHCS, 3/8-16x1, S/S, domestic
9	1	3926-PEN	Interior Rack Bracket Bottom, NF Reno, Beadblast
10	1	3922	LABEL, #1, Clear/Green, English Spanish
11	1	7452	Bumper, Rubber, 1 dia. w/ washer
12	1	3237	Brass One-Hole Strap for 3/16" Tubing, 1/32" Thick
13	1	9473	18-8 SS Button Head Socket Cap Screw 10-32 Thread
14	1	3923-PEN	Interior Rack Quadrant, RH 40 Deg, Top, Bead Blast
15	1	9325	Grip, .375 I.D. x 4 Long Vinyl
16	4	3430	18-8 Stainless Steel Toplock Locknut Hex, 3/8"-16
17	1	3893	Spacer, 1.0 OD x 0.5 Long
18	1	9291-PEN	Interior Rack Scissor, Beadblast

SECTION FOUR – SERVICE AND MAINTENANCE

19	1	3236	Torsion Spring, Modified 9307
20	4	7819	Washer, 5/16 SS
21	4	7892	BHCS 5/16-18 x 1.0



INTERLOCK SPARE PARTS

(LOWER ASSEMBLY)

ITEM #	QTY	P/N	DESCRIPTION
1	2	9700	Interlock Rear Wheel Strap
2	2	9701	Interlock Rear Wheel Strap Anchor Weldment
3	7	7819	Washer, 5/16 SS
4	4	7884	Nut, Nylock, 5/16-18 SS
5	4	3109	BOLT, Carriage, 5/16-18 x 1, Stainless Steel
6	1	9697-SIL	Interlock Rear Wheel Tray, Silver Metallic
7	1	3872	Interlock Bracket, Rear Wheel Tray, NF Reno
8	3	7892	BHCS 5/16-18 x 1.0

**NOTE: PLEASE ASK SALES FOR 6 DIGIT FINISHED GOODS P/N

SECTION FOUR – SERVICE AND MAINTENANCE

MCI LUGGAGE BAY RACK



100573 SPARE PARTS LIST						
LOCATIO	PART #	ITEM NAME	ITEM DESCRIPTION			
1	100980	MCI Folding Bed Support Assy	Folding Support with			
			Mounting Brackets and Hardware			
2	100900	MCI Monorail Latch Sub Assembly	Latch Assembly Including Knob			
3	100941	SPARES - MCI Knob Kit	Latch Knob with Mounting Hardware			
4	101017	MCI Gas Spring	Gas Spring with Mounting Hardware			
5	101079	Decal Kit MCI Luggage Bay Rack	Includes all Decals			
6	101080	MCI and Universal Luggage Bay Rack Rail Latch Shoulder Screw	One Replacement Shoulder Screw for Rail Latch			

MCI SPARE PARTS