AFLOAT RECREATION FUND MANAGEMENT DESK GUIDE

APPENDIX A

PREVENTATIVE MAINTENANCE SCHEDULE

Scheduled preventative maintenance of nonappropriated fund (NAF) fitness equipment is not a requirement of the Navy's Preventative Maintenance Schedule (PMS) system. A PMS should be established to keep your NAF fitness equipment in good working order within the harsh confines of the shipboard environment.

The following PMS cards have been prepared for the most common types of recreation fund fitness equipment. These cards, referred to in Chapter 2, Part 2.2 "Inspect/Maintain Recreation Equipment", help the Property Custodian maintain the recreation fund fitness equipment properly.

SHIP SYSTEM	SUBSYSTEM	MRC CODE		
Exercise Equipment				
SYSTEM	EQUIPMENT	RATES	MH	
	LIFECYCLE	SN/SA	.5	
MAINTENANCE		TOTA	L MH	
			5	
			ED TIME 5	
Inspect and lubricate the	Lifecycle seat plunger asse	mbly and seat	springs.	
SAFETY PRECAUTIONS				
Forces afloat comply opposite the opposite term of the opposite terms of the opposi	with Navy Safety Precautionies.	ons for Forces	Afloat,	
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT			
MATERIALS	TOOLS			
Rag(s)				
Light penetrating oil			_	
			PA	2
			PAGE 1 OF 1	1
			Ç)
DDGGGDUPF.				
PROCEDURE				
	assembly with light penetror wear, dirt, and rust. Clea		,	
2. Inspect seat springs to	or wear, dirt, and rust. Clea	ii as necessary	/·	
LOCATION		DATE		_

PAGE 2 OF 2

SHIP SYSTEM	SUBSYSTEM	MRC CODE	
Exercise Equipment			
SYSTEM	EQUIPMENT	RATES	MH
	EXERCISE	SN/SA	2.0
	EQUIPMENT		2.0
MAINTENANCE		TOTA	L MH
			.0
		_	ED TIME
		2	.0
Clean, inspect, and lubric	cate free weights, dumbbells	s, benches, leg	g press etc.
SAFETY PRECAUTIONS			,
Forces afloat comply OPNAVINST 5100 se	with Navy Safety Precaution ries.	ns for Forces	Afloat,
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT		
MATERIALS	TOOLS		
Rag(s)	Wire brush		
Light penetrating oil			
Non-skid strips			PA
			PAGE 1 OF
			유
			Ν.
PROCEDURE			
PROCEDURE			
	dicable to free weights, dun e standing exercise equipm		
which do not supply to sl		one. Delete st	СРЗ
Inspect all free weight	s and dumbbells for dirt an	d/or rust, and	
remove with wire brus		, -	
LOCATION		DATE	

MAINTENANCE REQUIREMENT CARD (MRC) OPNAV 4790 83 (REV. 2-82)

PROCEDURE (Contd)

- 2. Apply light coast of oil to all free weights and dumbbells.
- 3. Inspect all moving parts on benches/leg presses/squat racks/etc. (including incline hinge, leg extension, bench height adjusters, and bench arm adjuster) for:
 - a. Proper movement (Adjust/lubricate as necessary.)
 - b. Excessive wear (Replace as necessary.)
 - c. Hinges/safety pins/adjusters are in place and move freely.
- 4. Inspect non-skid type of foot boards for wear. Replace as required.
- 5. Inspect rollers for wear and proper lubrication. Replace/lubricate as required.
- 6. Inspect caps on end of olympic weight bars. Inspect for wear and proper lubrication. Replace/lubricate as required.

SHIP SYSTEM	SUBSYSTEM	MRC CODE	
Exercise Equipment			
SYSTEM	EQUIPMENT	RATES	MH
	EXERCISE	SN/SA	1.5
	EQUIPMENT		1.0
MAINTENANCE		TOTA	LMH
			.5
		_	ED TIME
		1.	.5
Clean, inspect, and lubric	ate Universal weight machi	nes.	
SAFETY PRECAUTIONS			
1. Forces afloat comply OPNAVINST 5100 se	with Navy Safety Precautio ries.	ns for Forces	Afloat,
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT		
MATERIALS	TOOLS		
Rag(s)	Wrenches (v	various)	
Silicone spray	Wire Brush		
Light weight oil			PA
			SE 1
			PAGE 1 OF 2
PROCEDURE			
	ails. Rails must be clear of	dirt and greas	se.
Clean with silicone sp			
2. Inspect all bolts for pr	oper tigntness. of dirt, grease, and rust. W	ire hrush as	
	coast of light weight oil to		
2			
LOCATION		DATE	

PROCEDURE (Contd)

- 4. closely inspect pulley lockbolts. Bolts must be tight and show no sign of wear. Replace as necessary.
- 5. Inspect cables for wear. Cables should be round. If cable appears flat or frayed, replacement of cable may be required. Replace as required.
- 6. Inspect "S" hooks for wear. Replace as required.
- 7. Inspect all pins for wear. Replace as required.
- 8. Inspect all hand grips for wear. Replace as required.

MAINTENANCE REQUIREMENT CARD (MRC)
OPNAV 4790 83 (REV. 2-82)

PAGE 2 OF 2

SHIP SYSTEM	SUBSYSTEM	MRC CODE	
Exercise Equipment			
SYSTEM	EQUIPMENT	RATES	MH
	LIFEROWER	SN/SA	1.5
MAINTENANCE		1 ELAPSE	AL MH .5 ED TIME .5
extrusion grooves, cables	ower seat, exterior housing, s, handle, cable guide, and "		or cover,
OPNAVINST 5100 se		ns for Forces	Afloat,
TOOLS, PARTS, MATERIALS, TE	ST EQUIPMENT		
MATERIALS	TOOLS		
Rag(s) Cleaner, spray			
			PAGE 1 OF 2
PROCEDURE			
Clean seat, outside of nonabrasive spray typ	housing, and glass monitor be cleaner.	cover with	
extrusion grooves. N	of grease, oil, and dirt. Cleater OTE: A high presence of description with alignment	irt in extrusio	
or a problem with the	e a problem with alignment seat roller material.	or the seat fo	oners
LOCATION		DATE	

DATE

MAINTENANCE REQUIREMENT CARD (MRC)

OPNAV 4790 83 (REV. 2-82)

PROCEDURE (Contd)

- 3. Inspect cable for wear. Pull the cable out until it is fully extended. Check for any signs of wear on the cable. Make sure that the cable has not begun to flatten and become more oval than round. If any fraying or parting of wire is present, replace.
- 4. Inspect cable guide for wear. Wear indicates that the LifeRower is being subjected to improper usage and that there could be cable damage in the future if improper use continues.
- 5. Inspect handle. Make sure that the nit which holds handle eyelet in place is properly tightened. Do not over tighten or handle movement will be restricted. NOTE: Anytime handle is removed, a new lock nut should be installed to ensure proper retention.
- 6. Inspect "S" hook for wear. Replace "S" hook at any sign of wear.

SHIP SYSTEM	SUBSYSTEM	MRC CODE		
Exercise Equipment				
SYSTEM	EQUIPMENT	RATES	MH	1
	LIFECYCLE	SN/SA	.5	i
MAINTENANCE		TOTA	L MH	
		ELAPSE	5 -D TIME	
			5 HIME	
Clean and inspect LifeCy assembly.	cle exterior housing, seat, a	nd seat plung	ger	
SAFETY PRECAUTIONS				
Forces afloat comply OPNAVINST 5100 se	with Navy Safety Precautionries.	ns for Forces	Afloat,	
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT			
MATERIALS	TOOLS			
Rag(s)				
Cleaner, spray			Г	
				PAG
				9AGE 1 OF 2
				OF 2
PROCEDURE				
1. Clean housing exterio				
2. Clean seat plunger ass	sembly for ease of operation	ı .		
LOCATION		DATE		

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SHIP SYSTEM	SUBSYSTEM	MRC CODE		
Exercise Equipment				
SYSTEM	EQUIPMENT	RATES	MH	1
	LIFESTEP	SN/SA	.5	
MAINTENANCE		TOTA	L MH	
		-	5	
			ED TIME 5	
Clean LifeStep belt, dip to	ray, foot pedals, and exterio	or housing.		
SAFETY PRECAUTIONS				
Forces afloat comply of OPNAVINST 5100 se	with Navy Safety Precautio ries.	ns for Forces	Afloat,	
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT			
MATERIALS	TOOLS			
Rag(s)				
Cleaner, spray			Г	
				PAG
				PAGE 1 OF
				OF 1
PROCEDURE				
Clean exterior surfaces	s with nonabrasive, spray ty	pe cleaner.	-	
			•	
			-	
LOCATION		DATE		
1		1		

SHIP SYSTEM	SUBSYSTEM	MRC CODE	
Exercise Equipment			
SYSTEM	EQUIPMENT	RATES	MH
	LIFECYCLE	SN/SA	
MAINTENANCE		TOTA	AL MH
		ELAPSI	ED TIME
Clean, inspect, and lubric	cate VersaClimber lubrication	on areas and c	chain.
SAFETY PRECAUTIONS			
Forces afloat comply OPNAVINST 5100 se	with Navy Safety Precautio	ns for Forces	Afloat,
TOOLS, PARTS, MATERIALS, TE	ST EQUIPMENT		
MATERIALS	TOOLS		
Rag(s) Circuit board cleaner	Screwdriver	, Phillips	
Light motor oil			P
Light penetrating oil			QE .
			PAGE 1 OF 4
			+
PROCEDURE			
1 Pamova housing sera	ws. Pull the seat pin back a	nd guida tha	cont
	me. Remove the seat post		scat
LOCATION		DATE	

PROCEDURE (Contd)

- 2. Separate and remove the left and right handlebar covers as necessary. Turn the left crank arm to the top. Slide the left side housing up and over the left crank arm. Swing the right crank arm to the top. Slide the right side housing up and over the right crank arm.
- 3. Clean interior of both housings.
- 4. Clean alternator control board (8) with circuit board cleaner.
- 5. Inspect chain for excessive wear. Replace as necessary.
- 6. Clean and lubricate chain with light motor oil.
- 7. Inspect bearing crank nut assembly for proper tightness to ensure optimal function and life of the crank bearings. Inspect crank nut for wear at the point where it meets the bearings. Replace if wear is excessive.
- 8. Clean and lubricate working pedal parts with light penetrating oil.
- 9. Lubricate the freewheel gear with light penetrating oil in order to keep coasting action smooth.
- 10. Clean alternator flywheel (9) from dirt, oil and dust.
- 11. Clean seat post shaft and insertion from dirt and/or rust.
- 12. Inspect gear belt for proper tightness and wear. A loose belt will wear unevenly and require replacement.
- 13. Inspect sprocket teeth for excessive wear.

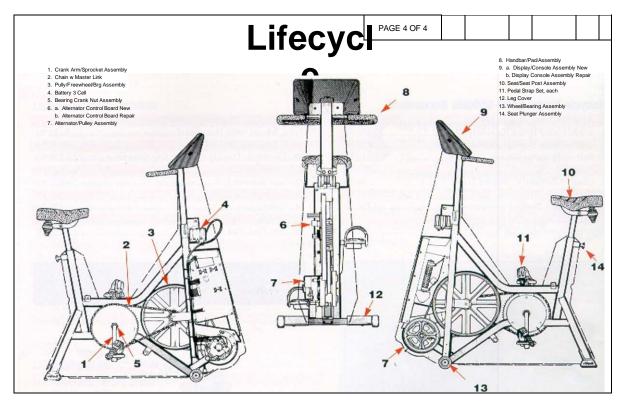
14. Return	equipment to	condition	of readiness

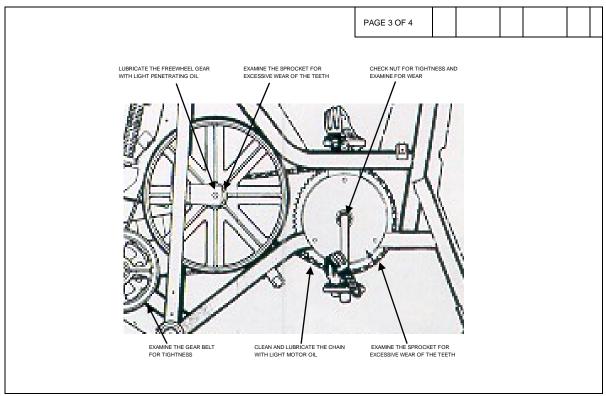
MAINTENANCE REQUIREMENT CARD (M	IRC)

Afloat Recreation Fund Management Desk Guide

PAGE 2 OF 4

OPNAV 4790 83 (REV. 2-82)





LOCATION

SHIP SYSTEM	SUBSYSTEM	MRC CODE		
Exercise Equipment				
SYSTEM	EQUIPMENT	RATES	MH	
	LIFESTEP	SN/SA	1.5	
MAINTENANCE		TOTA		
		1.		
		ELAPSE 1.		
Clean, inspect, and lubric	ate LifeStep power	1.		
board, opto board. chain,	clutch sprocket, crossover	sprocket, foo	t pedal,	
display, dip tray, and gear	r belts.			
SAFETY PRECAUTIONS				
Forces afloat comply with Navy Safety Precautions for Forces Afloat, OPNAVINST 5100 series.				
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT			
MATERIALS	TOOLS			
Rag(s)	Screwdriver	, Phillips		
Circuit board cleaner		. 1		
Champion molly grease			ъ	
Heavy weight motor oil			AGE	
Cleaner, spray			PAGE 1 OF	
			0F 3	
PROCEDURE				
NOTE: LifeStep components are numbered in () as per figure.				_
				_
 Remove housing and c Clean power board (18 cleaner. 	clean interior. 8) and opto board (23) with	circuit board		

MAINTENANCE REQUIREMENT CARD (MRC) OPNAV 4790 83 (REV. 2-82)

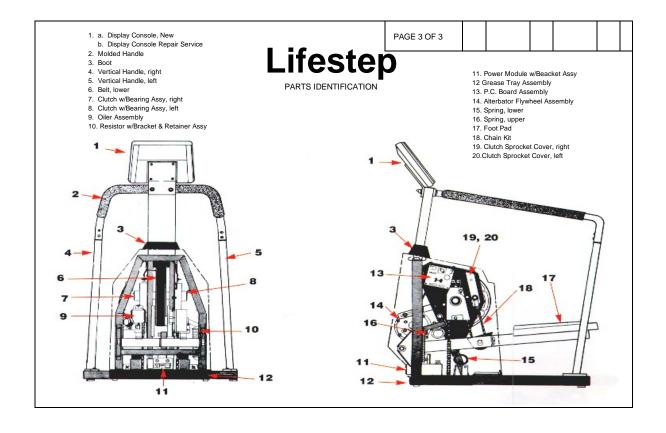
DATE

PROCEDURE (Contd)

- 3. Inspect chain (5) for wear. If excessive wear is present, replace. Clean and lubricate chain with champion molly grease or heavy weight motor oil. <u>Do not</u> use spray lubricants.
- Clean and inspect clutch sprocket (22) and crossover sprockets (20, 21).
 Cleaning of sprockets prevents any deviations in the step readings.
 Inspect sprockets for excessive teeth wear.
- 5. Lubricate foot pedal (9).
- 6. Clean display (2) and inspect for proper operation.
- 7. Inspect drip tray for excessive oil and cracks.
- 8. Inspect gear belts (15) for proper excessive wear and proper tension. Keep gear belts tight. A loose belt will wear unevenly and require replacement. If excessive or uneven wear is present, replace.
- 9. Replace housing.

PAGE 2 OF 4

MAINTENANCE REQUIREMENT CARD (MRC) OPNAV 4790 83 (REV. 2-82)



SHIP SYSTEM	SUBSYSTEM	MRC CODE	
Exercise Equipment			
SYSTEM	EQUIPMENT	RATES	MH
	LIFEROWER	SN/SA	.5
MAINTENANCE		_	L MH 5
		_	ED TIME 5
Clean and inspect LifeRo	ower interior cover, gear me		
SAFETY PRECAUTIONS			
Forces afloat comply OPNAVINST 5100 se	with Navy Safety Precautio	ns for Forces	Afloat,
TOOLS, PARTS, MATERIALS, TE	ST EQUIPMENT		
MATERIALS	TOOLS		
Rag(s) Cleaner, spray	Screwdriver	, Phillips	
			PAGE 1 OF 1
PROCEDURE			
	ers and clean interior of cov nechanisms for damage and		
3. Replace housing cove		wear.	
	r wear and damage. Replac	e if necessary	
LOCATION		DATE	
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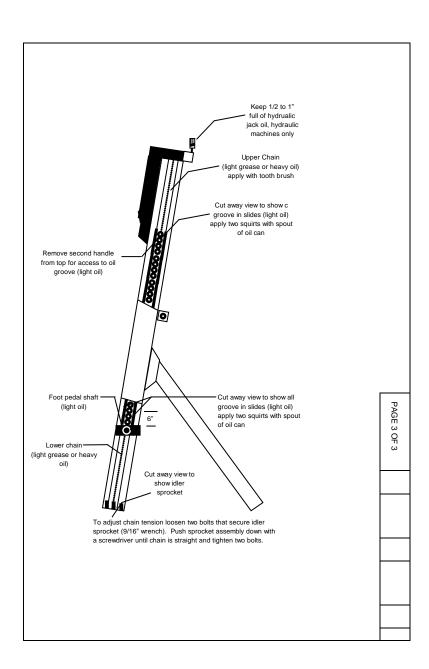
PAGE 2 OF 3

SHIP SYSTEM	SUBSYSTEM	MRC CODE			
Exercise Equipment					
SYSTEM	EQUIPMENT	RATES	MH		
	VERSACLIMBER	SN/SA	.5		
MAINTENANCE		TOTA	AL MH		
		.5 ELAPSED TIME			
Clean, inspect, and lubric	eate LifeCycle interior	_	5		
	l board, chain, bearing crar		, flywheel		
_ ·	seat post shaft, gear belt, a	nd sprocket.			
SAFETY PRECAUTIONS					
Forces afloat comply with Navy Safety Precautions for Forces Afloat, OPNAVINST 5100 series.					
TOOLS, PARTS, MATERIALS, TES	ST EQUIPMENT				
MATERIALS	TOOLS				
Rag(s)	Toothbrush				
Hydraulic jack oil	3/16" Wren		_		
Light grease or heavy oil Light penetrating oil	Screwdriver	, Phillips	PAC		
Light penetrating on			PAGE 1 OF		
			OF 3		
PROCEDURE					
1. Visually inspect the lubrication areas described below (figure 1-1).					
Lubricate when machine movement is not smooth or if you cannot					
see or feel lubrication in the areas indicated. Before lubricating, wipe excess oil, grease, and dirt from the sliding surfaces through					
openings in sides of m	nachine. Lubricate both sid				
of machine.					
LOCATION		DATE			

MAINTENANCE REQUIREMENT CARD (MRC)

PROCEDURE (Contd)

- a. Maintain oil fill reservoir 1/2 1/3 full of hydrolic jack oil.
- b. Lubricate upper chain with light grease or heavy oil. Apply with toothbrush. Repeat procedure on lower chain.
- c. Remove second handle from top for access to oil groove. Lubricate oil grooves in the upper slides by applying 2 squirts of light penetrating oil.
- d. Lubricate oil grooves in the lower slides by applying 2 squirts of light penetrating oil.
- e. Lubricate pedal shaft with light penetrating oil.
- f. Lubricate idler sprocket with light penetrating oil.
- 2. Inspect chain tension. To adjust tension, loosen the 2 bolts that secure idler sprocket (9/16" wrench). Push sprocket assembly down with a screwdriver until chain is straight and tighten 2 bolts.



SHIP SYSTEM	SUBSYSTEM	MRC CODE			
Exercise Equipment					
SYSTEM	EQUIPMENT	RATES	MH		
	VERSACLIMBER	SN/SA	.5	i	
MAINTENANCE		TOTAL MH			
		.5 ELAPSED TIME			
		.5			
Replace VersaClimber battery upon depletion					
SAFETY PRECAUTIONS					
Forces afloat comply with Navy Safety Precautions for Forces Afloat, OPNAVINST 5100 series.					
TOOLS, PARTS, MATERIALS, TEST EQUIPMENT					
MATERIALS	TOOLS				
Fully recharged battery					
				PAG	
				PAGE 1 OF	
				F2	
PROCEDURE					
1. A fading of the machine's display indicates the need for a fresh battery.					
Remove the discharge battery from the battery holder on the left side of the machine and replace it with a fully recharged battery or a					
standard nine alkaline	-	god outtor.	, 01 4		
LOCATION		DATE			

PROCEDURE (Contd) 3. Recharge the old nicad battery by plugging it into its charger and plugging the charger into a receptacle for a minimum of 14 hours. PAGE 2 OF 2