MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE

Maintenance Management Order **Monte Contract Service**

SUBJECT: Update Operational, Predictive, & Preventive Maintenance Guidelines for Delivery Bar Code Sorter Phase 2 - 5 (DBCS) using eCBM **DATE:** July 19, 2016

NO: MMO-050-16

gmar: mm14119ab

FILE CODE: 2D

TO: Maintenance Managers DBCS Phase 2-5 Offices

 Online Change Record

 Change #
 Date
 Description of Change

 1
 05/22/2020
 Added the Infrared Thermography information after the online change record.

Infrared Thermography Information for DBCS Based Sorting Equipment – Plug and Receptacle Connectors is located at **MTSC>HELPDESK>Service Portal>Knowledge Base>KB0013384.**

This Maintenance Management Order (MMO) provides Preventive, Predictive, and Operational Maintenance Guidelines for the Delivery Bar Code Sorter and supersedes MMO-125-12. The acronym is DBCS and the class code is CJ.

The workhours indicated in the workload estimate (Attachment 1) reflect the *maximum* annual workhours required to maintain each system. Actual workhour requirements and the frequency of tasks are dependent on pieces processed. Therefore, PM workhour requirements will vary day-to-day based on site specific machine utilization. Management may modify task frequencies to address local conditions.

The minimum maintenance skill level required to perform each task is included in the Minimum Skill Level column of each checklist. This does not preclude higher level employees from performing any of this work.

Preventive Maintenance (PM) guidelines provide maintenance employees with the recommended task based maintenance activities. The Electronic Conditioned Based Maintenance (eCBM) is an abbreviated task list that represents a portion of the PM checklist. The complete master PM checklist must be accessible to all maintenance employees when performing PM and eCBM task based maintenance activities.

WARNING

Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment.

WARNING

Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO for appropriate EWP PPE and barricade requirements.

WARNING

The use of compressed or blown air is prohibited. An alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp rag, lint-free cloth, or brush must be used in place of compressed or blown air.

Direct any questions or comments concerning this bulletin to the MTSC HelpDesk, online at <u>https://tickets.mtsc.usps.gov/login.php</u> or call (800) 366-4123.

Kevin Couch Manager Maintenance Technical Support Center HQ Maintenance Operations

Attachments:

- 1. Summary Workload Estimate for DBCS Phase 2-5
- 2. Master Checklist: 03-DBCS-CJ-001-M: Power Off and Power On Tasks
- 3. Master Checklist: 09-DBCS-CJ-001-M: Operational Maintenance

ATTACHMENT 1

SUMMARY

WORKLOAD ESTIMATE

FOR

DBCS – Phase 2-5

SUMMARY WORKLOAD ESTIMATE FOR DBCS – Phase 2-5

Number of Processed			SUMMARY N	NORK LOAD ES	TIMATES FOR I	DBCS - CJ				
>	IOI I Teal	58,000,000	<u>High end es</u>	<u>timate</u>	For a 110 Stac	<u>ker Machine</u>				
Operation	Routine	Repair	Routine	Non- Productive	Total	Operation	al Maintenand Servicing	ce + Total		
Days	Servicing per	Time per	Repair Time Machine		Servicing per	1 Tour	2 Tours	3 Tours		
	Machine	Machine			Machine	Hrs/Yr	Hrs/Yr	Hrs/Yr		
5 D	(Hrs/Yr)	(Hrs/Yr) *			(Hrs/Yr)	OpM x 1	OpM x 2	OpM x 3		
5 Days	516.93	155.08	672.01	67.20	739.21	938.54	1,137.88	1,337.21		
6 Days	590.60	177.18	767.78	76.78	844.56	1,083.76	1,322.96	1,562.16		
7 Days *	664.27	199.28	863.55	86.36	949.91	1,228.97	1,508.04	1,787.11		
**	•	of total PN		n 30% of prevei	ntive maintenan	ce.				
	Buscu on 1	THRESHOLDS and PM TIME SUMMARY Hrs PER Year OPERATIONAL MAINTENANCE								
	I		Daily	46 MIN. PER DAY PER MACHINE						
			Monthly	<u>515.67</u> 8.20		One Tour	Two Tours	Three Tours		
			0	0.00	5 Day	199.33	398.67	598.00		
			1,100,000	71.18	6 Day	239.20	478.40	717.60		
			2,200,000	18.45	0 Day 7 Day	279.07	558.13	837.20		
			4,400,000	34.71	i Day	213.01	550.15	037.20		
			14,300,000	3.31						
			20,000,000	10.59						
			57,200,000	2.16						

	Mach	ine Oper						
# of Stackers	Routine	Repair	Routine	Non- Productive	Total		onal Mainte otal Servicii	
	Servicing per	Time per	Servicing + Repair	Time per	Servicing per	1 Tour	2 Tours	3 Tours
	Machine	Machine (Hrs/Yr)	Time	Machine	Machine	Hrs/Yr OpM x	Hrs/Yr OpM x	Hrs/Yr OpM x
	(Hrs/Yr)	*	(Hrs/Yr)	(Hrs/Yr) **	(Hrs/Yr)	1	2	3
110	516.93	155.08	672.01	67.20	739.21	938.54	1137.88	1337.21
126	531.77	159.53	691.30	69.13	760.43	959.76	1159.10	1358.43
142	546.74	164.02	710.77	71.08	781.85	981.18	1180.52	1379.85
158	561.79	168.54	730.32	73.03	803.35	1002.68	1202.02	1401.35
174	576.76	173.03	749.79	74.98	824.77	1024.10	1223.44	1422.77
190	596.26	178.88	775.13	77.51	852.64	1051.97	1251.31	1450.64
206	611.21	183.36	794.57	79.46	874.03	1073.36	1272.70	1472.03
222	626.25	187.88	814.13	81.41	895.54	1094.87	1294.21	1493.54
238	637.26	191.18	828.43	82.84	911.27	1110.60	1309.94	1509.27
254	660.46	198.14	858.60	85.86	944.46	1143.79	1343.13	1542.46
270	675.43	202.63	878.05	87.81	965.86	1165.19	1364.53	1563.86
286	690.45	207.14	897.59	89.76 987		1186.68	1386.02	1585.35
302	705.42	211.63	917.05	91.71	1008.76	1208.09	1407.43	1606.76

Г

	Machine	Operating	5 Day	ys/Week
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Machine Operating 6 Days/Week

	Mach									
# of Stackers	Routine	Repair	Routine	Non- Productive	Total	Operational Maintenance + Total Servicing				
	Servicing per	Time per	Servicing + Repair	Time per	Servicing per	1 Tour	2 Tours	3 Tours		
	Machine	Machine (Hrs/Yr)	Time	Machine	Machine	Hrs/Yr OpM x	Hrs/Yr OpM x	Hrs/Yr OpM x		
	(Hrs/Yr)	*	(Hrs/Yr)	(Hrs/Yr) **	(Hrs/Yr)	.1	2	3		
110	590.60	177.18	767.78	76.78	844.56	1083.76	1322.96	1562.16		
126	607.17	182.15	789.32	78.93	868.25	1107.45	1346.65	1585.85		
142	623.01	186.90	809.91	80.99	890.90	1130.10	1369.30	1608.50		
158	638.92	191.68	830.60	83.06	913.66	1152.86	1392.06	1631.26		
174	654.76	196.43	851.19	85.12	936.31	1175.51	1414.71	1653.91		
190	675.99	202.80	878.79	87.88	966.67	1205.87	1445.07	1684.27		
206	691.81	207.54	899.35	89.94	989.29	1228.49	1467.69	1706.89		
222	707.72	212.32	920.04	92.00	1012.04	1251.24	1490.44	1729.64		
238	719.59	215.88	935.47	93.55	1029.02	1268.22	1507.42	1746.62		
254	744.53	223.36	967.89	96.79	1064.68	1303.88	1543.08	1782.28		
270	760.36	228.11	988.47	98.85	1087.32	1326.52	1565.72	1804.92		
286	776.25	232.88	1009.13	100.91	1110.04	1349.24	1588.44	1827.64		
302	792.09	237.63	1029.72	102.97	1132.69	1371.89	1611.09	1850.29		

	Mach							
# of Stackers	Routine	Repair	Routine	Non- Productive	Total		onal Mainte otal Servicir	
	Servicing per	Time per	Servicing + Repair	Time per	Servicing per	1 Tour	2 Tours	3 Tours
	Machine	Machine (Hrs/Yr)	Time	Machine	Machine	Hrs/Yr OpM x	Hrs/Yr OpM x	Hrs/Yr OpM x
	(Hrs/Yr)	*	(Hrs/Yr)	(Hrs/Yr) **	(Hrs/Yr)	1	2	3
110	664.27	199.28	863.55	86.36	949.91	1228.97	1508.04	1787.11
126	682.57	204.77	887.34	88.73	976.07	1255.14	1534.21	1813.27
142	699.28	209.78	909.06	90.91	999.97	1279.03	1558.10	1837.17
158	716.05	214.82	930.87	93.09	1023.96	1303.02	1582.09	1861.16
174	732.76	219.83	952.59	95.26	1047.85	1326.92	1605.98	1885.05
190	755.72	226.72	982.44	98.24	1080.68	1359.75	1638.82	1917.88
206	772.41	231.72	1004.13	100.41	1104.54	1383.61	1662.68	1941.74
222	789.19	236.76	1025.94	102.59	1128.53	1407.60	1686.67	1965.73
238	801.92	240.58	1042.50	104.25	1146.75	1425.82	1704.88	1983.95
254	828.60	248.58	1077.18	107.72	1184.90	1463.96	1743.03	2022.10
270	845.29	253.59	1098.88	109.89	1208.77	1487.83	1766.90	2045.97
286	862.05	258.62	1120.67	112.07	1232.74	1511.80	1790.87	2069.94
302	878.76	263.63	1142.38	114.24	1256.62	1535.68	1814.75	2093.82

Repair maintenance estimate	es based on	30.00%	of preventive maintenance.
	Based on	10.00%	of total PM and repair.

			Power	Off Task	S			
	Threshold ->	3K	1.1M	2.2M	4.4M	14.3M	57.2M	
	ltem # ->	5	8	9	10	18	20	
	110	9	35	37	116	10	70	
	126	1	5	3	10	3	10	
	142	2	10	6	20	6	20	
	158	3	15	9	30	9	30	
	174	4	20	12	40	12	40	
	190	5	25	15	50	15	52	
# Stackers	206	6	30	18	60	18	62	Minutes
Oldereis	222	7	35	21	70	21	72	
	238	8	40	24	80	24	82	
	254	9	45	27	90	27	90	
	270	10	50	30	100	30	100	
	286	11	55	33	110	33	110	
	302	12	60	36	120	36	120	

			Power	On Task	S			
	Threshold ->	Monthly	1K	1.1M	14.3M	14.3M	20M	
	ltem # ->	22	21	28	29	30	23	
	110	18	8	7	14	20	219	
	126	2	1	1	2	2	10	
	142	4	1	2	2	4	20	
	158	6	1	3	3	6	30	
	174	8	1	4	3	8	40	
	190	10	2	5	4	10	52	
# Stackers	206	12	2	6	4	12	62	Minutes
Slackers	222	14	2	7	5	14	72	
	238	16	2	8	5	16	82	
	254	18	3	9	6	18	90	
	270	20	3	10	6	20	100	
	286	22	3	11	7	22	110	
	302	24	3	12	7	24	120	

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ATTACHMENT 2

MASTER CHECKLIST

03-DBCS-CJ-001-M

POWER OFF AND POWER ON TASKS

Time Total: See Attachment 1.

MMO-050-16

U.S. Postal	Service					TION						
Maintenance	Check	list	WORK CODE		EQUIPMENT ACRONYM	1 1	CL C	LASS ODE		MBER	TYPE	
			0 3		CS		С	J		0 1	М	
Equipment Nomenclature Delivery Bar C		orter	Equipmer	nt Model 0BCS Pha:	se 2-5	Bulletin Fi MN	lename I14119		Occurrence ECBM			
	1						ī					
Part or Component	Item No	(0			nd Instruction safety precautio	ns)	Est. Time	Min. Skill		Threshold		
						,	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.	
							1	All	1		4	
SAFETY STATEMENT		Disconne required local loc down ar equipme Check fo If any u supervise further ac THE USE IS PROH When cl cleaning vacuum in place free clot equipme	OMPLY WITH ALL SAFETY PRECAUTIONS. sconnect power and apply lockouts when quired by this instruction. Refer to current cal lockout procedures to properly shut own and lock out this machine. Open uipment and inspect dust conditions. neck for suspicious dust or unusual debris. any unusual substance is found notify pervisor prior to proceeding with any rther action on the equipment. IE USE OF COMPRESSED OR BLOWN AIR PROHIBITED. hen cleaning is required, an alternative eaning method such as a HEPA filtered cuum cleaner or a damp rag must be used place of compressed or blown air. A lint- ee cloth or brush may be used on optical uipment only when other cleaning methods nnot be used. Report safety deficiencies to									
		Steps co the use Personal to the cu	ontained of El Protect rrent EV	lectrical tive Equip	oulletin may Work Plan oment (PPE) for appropria							
DBCS SYSTEM: REPORT					End of D	ay, and	4	10		1		
ANALYSIS		procedure reports to	acking Report. ior to performing the power down lockout ocedures analyze data provided on these ports to determine if any areas of machine are graded or in need of attention.									
DBCS SYSTEM: COMPUTERS		with the j	procedu	re as outl	em in accor ined in the r esently the N	1	9		1			
		properly s	shut dow	n the syste	the detailed em is in MS B, Section 5							
			NOTE									
		perfor		ese proced	ncountered lures report							

U.S. Postal	Service		IDENTIFICA						FICAT			-		
Maintenance	Check	list	WORK CODE			QUIPI ACRO					LASS ODE	NUI	MBER	TYPE
			0 3	DB	C	S				C	J	0	0 1	М
Equipment Nomenclature	е			ent Model				Bullet	in File	ename	_	Occurrer	nce	
Delivery Bar C	ode Sc	orter	[DBCS Pł	nase	2-5			MM1	14119			ECBM	
Part or	Itom		Took	Statement	t and h	ootruo	lion			Est.	Min.		Thresholds	
Component	Item No	(0		th all curre				ns)		Time	Skill			
										Req (min)	Lev	Run Hours	Pieces Fed	Freq.
										(11111)			(000)	
DBCS SYSTEM: POWER DOWN	4.	Power do	er down and lock out power.								ALL		1	
			[WARN	IING									
		at the unless	e input s the o	wer will of the circuit i r distrib	disc s di	onne sable	ect d ed at	evice t the						
		Power d electrical lockout procedure	power a instructi	s prescr	ibed l	by th	e curr	ent lo	cal					
DBCS SYSTEM:	5.	Mail sear	ch.							9	7		3	
MAIL SEARCH		panels	er plate s), stack	machin e cover er lower ver Distri	r as front	semt pane	olies el ass	(Win	пру					
		positio	s able on. Re	cover's g to holo eport de perform	l cov fectiv	ver ve co	in up ompoi	perm	ost					
		3. Searc interio	h all b ors for m		te a	reas	and	mod	ule					
		4. Remo	ve any r	mail piec	es fo	und.								
			this ma	large ai il search hen doir	n to p	oreve	nt clo	ogging						
			Follow local procedures for returning mail to Operations for processing.											
DBCS SYSTEM:	6.	Vacuum/	cuum/clean machine.							30	7		60	
VACUUM/CLEAN 1			Г	WARN										
		sharp	Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral-stacking auger.											

MMO-050-16 Maintenance Technical Support Center IDENTIFICATION U.S. Postal Service WORK EQUIPMENT CLASS NUMBER TYPE Maintenance Checklist CODE ACRONYM CODE В 0 3 D С S С 0 0 1 Μ J Equipment Nomenclature Equipment Model **Bulletin Filename** Occurrence **DBCS Phase 2-5** ECBM **Delivery Bar Code Sorter** MM14119 Part or Est. Thresholds Item Task Statement and Instruction Min. Component No (Comply with all current safety precautions) Time Skill Run Pieces Freq. Req Lev Hours Fed (min) (000) WARNING Use extreme caution in area of pocket assembly wear plate. On some machines, wear plate extends past edge of its base and into stacker area, exposing sharp edges. WARNING Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion. NOTE While performing this task, check for loose, cracked, or damaged hinges in Reader Module. Notify supervisor Vacuum and clean internal and base-plate areas of the machine starting at the front of stacker module #1, and proceed toward the feeder and around the machine to end up and include the rear of stacker module #1. In the process of doing this, ensure the following areas are cleaned: 1. The P-SEN10 and P-LED10 assemblies 2. Feeder section two power supplies (exterior cage) 3. Outside surfaces of jogger assembly 4. Exterior of monitor, keyboard, printer, and printer stand 5. Ensure laser printer has an adequate amount of paper for three tours of operation, add paper if necessary by following instructions in most current MS-229. a. Open paper tray. b. Fill paper tray with paper. c. Close paper tray. 6. Reader Module 5v power supply and light barriers

U.S. Postal		ii Ouppo				DENTIFICATION						-10	
Maintenance		list	WORK CODE			PMENT ONYM		CL	ASS ODE	NUMBER			′PE
			0 3	DB				C	J	0	0	1 N	M
Equipment Nomenclature			Equipme			1 1	Bulletin Fi		1	Occurre			
Delivery Bar C	ode So	rter	L	BCS Pr	nase 2-5		MIN	14119			ECE	SIVI	
Part or Component	ltem No	((and Instru nt safety pr		ne)	Est. Time	Min. Skill		Thresh	olds	
Component	NO		Comply wit		ni salety pi	(13)	Req (min)	Lev	Run Hours	Piece Fed		eq.	
							. ,			(000)		
		7. Exteri WFO	or of the / Proces		Compute	the							
		8. Tray la loadin		ters clea	aning and	stock							
		la	lean/vac bel printe acker me	ers, loca									
		รเ รเ	ufficient s upport th	supply of ree tours	ers are lo f label ma s of opera label prir	to							
		1	,		tock betv abel print		juides						
		2	,		nd of lab ïrst, face								
		3) Push	n print he	ad lever	back.							
		4			ock throu ont of lab								
DBCS SYSTEM: VACUUM/CLEAN 2		Clean an the mach		uum the	e followi	ng are	eas of	8	7		17	5	
			[WARN	IING								
		preve	rd sol ding to nt pol ustion.		erials s to neous								
			ICS-3 s interior lectronic	of ICS-3									
		2. Clean	ICS-3 s	ystem re	lows:								
		cl	 a. Clean ICS-3 read head. Recommended cleaner is Riptide, PSN 6850-01-394- 0164. 										
			lean read ecomme		eflector. eaner is F	.							
		3. Clean	WFOV	Assemb	ly.								

MMO-050-16 Maintenance Technical Support Center **IDENTIFICATION** U.S. Postal Service CLASS WORK EQUIPMENT NUMBER TYPE Maintenance Checklist CODE ACRONYM CODE D В 0 3 С S С 0 0 1 М J Equipment Nomenclature Equipment Model **Bulletin Filename** Occurrence MM14119 ECBM **Delivery Bar Code Sorter DBCS Phase 2-5** Part or Task Statement and Instruction Est. Min. Thresholds Item Component No (Comply with all current safety precautions) Time Skill Run Pieces Freq. Req Lev Hours Fed (min) (000) WARNING Use extreme caution when working around the WFOV aperture. The edges of the aperture may become extremely sharp during use of the DBCS. a. Following safety precautions, remove the Aperture/Illumination assembly. Loosen the thumbscrew on top and pull straight up to remove. Check the aperture plates and sapphire glass for foreign objects. b. Remove dust buildup on exterior of camera sapphire glass using dry cotton swabs. If adhesive buildup appears on the sapphire glass, use a swab or soft cloth wetted with an acceptable site approved cleaner. c. If dust is found inside Aperture/ Illumination assembly refer to most current documentation, currently the MS-212, Appendix A for detailed cleaning instructions. d. Replace Aperture/Illumination assembly. Slide assembly straight down on front of camera head assembly and tighten thumbscrew. DBCS SYSTEM: 8. Clean stacker modules 2 through to the end 35 7 1100 VACUUM/CLEAN 3 module by vacuuming, remove dust and **STACKERS** debris as follows: WARNING Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger. WARNING Use extreme caution in area of pocket assembly wear plate. On some machines, wear plate extends past edge

U.S. Postal	Service		MODY		ICATIO	CATION								
Maintenance	Check	list	WORK CODE			QUIP ACRC	MENT NYM				LASS ODE	NU	MBER	TYPE
			0 3	D B	С	S				С	J	0	0 1	М
Equipment Nomenclature		rtor	Equipme	nt Model DBCS Ph				Bulleti				Occurre	^{nce} ECBM	
Delivery Bar C	oue SC	niei			lase 2	∠-ວ			MM14	119			ECRIN	
Part or	Item			Statement						Est.	Min.		Threshold	s
Component	No	(1	Comply wi	th all curre	nt safe	ety pre	ecautio	ns)		Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		of its	base	and i	nto	stac	ker	area,						
				rp edge				,						
			ſ	WARN	IING									
		Disca		lvent ः o loca				erials s to						
		preve	nt pol	llution				neous						
		comb	ustion.											
		1. Clear	n stackei	r module	s #2	thro	ugh tł	ne end	of					
		the r	nachine	, transp	ort a	rea,	inte	rior, a	nd					
				nblies, i ∶include					rs.					
				arriers a		•	, . u							
		∠. ∟nsu				-an.								
DBCS SYSTEM:	9.	Check be	elts and	rollers.					:	37	9		2200	
BELTS, ROLLERS AND HARDWARE			[WARN	IING									
		preve	ding t	lvent s o loca llution		roce	dure							
		Starting proceed to to end up #1. Ther modules modules	toward f and inc procee and are	eeder an clude the d down ound the	nd are rear the b e fro	ound ofs back ntc	d the tacke of the of the	machi r modu e stack stack	ne ule (er					
			ations of	s (drive a wear. C deforme	create	e woi	'k ord	er to	or					
		2. Chec	k for bro	ken or b	urred	gate	e flags	S.						
			work or ts and/o	ders as r r gates.	neede	ed fo	r repl	aceme	nt					
		and/c	oper adj	ustment ildup. Cl	and i	ndic	ations	s of we	ar					
		5. In the unit fi		⁻ Module	, clea	n the	e mot	or pow	er					
				orders as				ement	of					

MMO-050-16 Maintenance Technical Support Center **IDENTIFICATION** U.S. Postal Service WORK EQUIPMENT CLASS NUMBER TYPE Maintenance Checklist CODE ACRONYM CODE В 0 3 D С S С 0 0 1 М J Equipment Nomenclature Equipment Model **Bulletin Filename** Occurrence **DBCS Phase 2-5 Delivery Bar Code Sorter** MM14119 ECBM Part or Est. Thresholds Task Statement and Instruction Min. Item Component No (Comply with all current safety precautions) Time Skill Run Pieces Freq. Req Lev Hours Fed (min) (000) rollers. DBCS SYSTEM: 10. Perform the following steps to ensure all 116 7 4400 areas of the machine not covered in previous VACUUM/CLEAN 4 tasks are properly vacuumed and cleaned. WARNING Edges of spiral stacking auger may be Use extreme caution when sharp. working near spiral stacking auger. WARNING Use extreme caution in area of pocket assembly wear plate. On some machines, wear plate extends past edge of its base and into stacker area, exposing sharp edges. WARNING Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion. NOTE While performing following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear. loose connections, etc., and if any problems are found, write a work order to do corrective maintenance. Open any additional doors including the plate cover assemblies (Wimpy panels) in order to perform the following cleaning steps: 1. Clean Feeder Module. Clean/vacuum all plates, covers, doors, framework, etc., including the vibrator assembly. Verify vibrator motor power cord is not rubbing against frame. 2. Clean Transport Module. Clean all plates, covers, doors, and a. framework. Remove and clean the two filters located

U.S. Postal S	Service			1			DENTIFIC					
Maintenance	Check	list	WORK CODE		EQUIP ACRC			С	LASS ODE	NU	MBER	TYPE
-			0 3	D B	1 1 1	\Box		С	J	0	0 1	М
Equipment Nomenclature Delivery Bar Co		rter	Equipmer D		hase 2-5	_	Bulletin F	ilename 14119		Occurre	^{nce} ECBM	
· · · ·										·		
Part or Component	Item No	((t and Instructed to the second s		าร)	Est. Time	Min. Skill		Threshold	
							,	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
			n the kno leaning r		ne air com	npress	or, after	·				
		3. Read	er Modu	le - Clea	an/vacuum amework.	ו all pl	ates,					
			Г	CAUT								
		regard (ESD) handli includ comp	ding are ing all ling tho uters, e	elect strictly printe ose in lo tc. Thi	be taken tro-static follow d circui ogic rack is include SD pads.	-disch ed v t bo (s, sy es the	narge when ards, østem					
		06-00 (eBuy Comp cover	0-8366) y #58656 outer and rs from S	or an E 6), clean d WFOV System C	inment Ur SD compa /vacuum S / Compute Computer Re-instal	atible Syster er. Re and W	vacuum n move VFOV					
		plates plate	s, covers cover as	s, doors, ssemblie	es. Clean/ framewor es (Wimpy s back and	rk, div v pane	erter ls),					
DBCS SYSTEM: VACUUM/CLEAN		Vacuum/ Modules.		op of Re	ader and	Stack	(er	23	7			М
DBCS SYSTEM:	12.	Verificati	on of sa	afety wa	rning lab	els.		2	7		4400	
SAFETY WARNING LABELS		ł		NO	TE					1	1	
		safety MMO-	warning 056-09,	labels;	nt MMO d currently, I locations	this is	5					
		labe	umbers. Verify feeder modules have safety warning labels present, correctly located and in good condition.									
		labe		nt, corre	es have sa ectly locate							
		feed initia	ler/stack	er safety rk order	missing or y warning to replace essary.	labels						

MMO-050-16							aintenar		echni	cal Su	pport C	Center
U.S. Postal S			WORK		EQUI	PMENT	IDENTIFICA		ASS	NU	MBER	TYPE
Maintenance	Check	dist	CODE 0 3	DE		<u>ONYM</u>		<u>с</u>		0	0 1	М
Equipment Nomenclature			Equipmer	nt Model			Bulletin Fi	lename		Occurre	nce	101
Delivery Bar C	ode So	orter	D	BCS F	hase 2-5		MN	114119			ECBM	
Part or Component	Item No	(1			nt and Instru ent safety p		ne)	Est. Time	Min. Skill		Thresholds	6
Component	NO		comply wit		ent salety p	ecaulic	113)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
											(000)	I
DBCS SYSTEM:	13.	Clean an	d check	for ma	ail under	machi	ne.	58	7		57200	
UNDER MACHINE CLEAN/CHECK		mach		outer s	from bac ide of Fe							
		for m	ail piece	sunde	art at Tra r machine t stacker.		and look eed to					
		3. Rem	ove any	mail pi	eces four	d.						
			w local p ations fo		ires for re essing.	turning	g mail to					
		work secti	toward t ons clear	he Tra ning an	side of the nsport an id vacuun m under t	d Feed hing ar	ler ıy dust					
		6. Rein	stall foan	n strips	to backs	ide of ı	machine					
FEEDER MODULE	14.	Check Fe	eder we	ar and	l items a	s follo	ws:	1	9		173	
HARDWARE		1. Teflor	n strip									
		2. Rubb	er strippe	ers								
		3. Pick-o	off belts									
		4. Comp	pensator	levers								
		5. Chec	k for reco	ommen	ded gap	setting	of 5.					
		requir Maint MMO	red. enance	Refer Manao coveri	to the gement (ng feede	mos Drder,	blace as t recent currently ment and					
FEEDER MODULE:	15.	Check Fe	eder ali	gnmer	nt.			15	7		1100	
ALIGNMENT CHECK		Check Fe require p 000-5005 recent currently alignment	ower) u , and i Mainten MMO	sing te n acco ance -029-08	emplate, ordance Manage 8, cov	PSN with t ement ering	5220-04- he most Order, Feeder					
				NO	TE							
		work o	order to c	lo a fu	are fou l Feeder most re	alignm	ent in					

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U.S. Postal				01		I	DENTIFICA	TION				00.0
Maintenance	Check	list	WORK CODE		EQUIP ACRO	MENT		CI	ASS ODE	NU	IMBER	TYPE
			0 3	DB	CS			С	J	0	0 1	М
Equipment Nomenclature Delivery Bar C		orter	Equipme [nt Model DBCS Pha	ase 2-5		Bulletin Fil MM	ename 14119		Occurre	ECBM	
Part or	Item			Statement a				Est.	Min.		Threshold	s
Component	No	(1	Comply wi	th all current	t safety pre	cautio	ns)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
				O-029-08, performa				•				
FEEDER MODULE:	16.	Check Fe	eder tra	ansport fo	or wear.			5	9		2200	
MAIL TRANSPORT HARDWARE		trans Chec broke chain	port belt k drive en teeth needs enance	om feeder for splits chain for and spro lubricat handbook	, tears, a stretch, ocket te ion, ref c at com	and d sproo eth v er to pletio	eformity. ckets for vear. If DBCS on of this					
		moun	iting bra	cket, and	sliding	beari	ng block					
		 Chec wear. smoo 	Ensu	ort blade re transp ig guide ro	oort ass							
		4. Chec	k pawl fo	or wear.								
READER MODULE: WFOV	17.	WFOV fo		er check.	r in Re	ader	module	1	9		4400	
FOAM ROLLER		Replace r					modulo.					
READER MODULE: ENCODER COUPLING	18.	Cou	e Clamp love and pler (PSI	replace ti N 4720-02	he Enco 2-000-40	der Tu 60) ai	ube nd Hose	10	9		14300	
		the F 2. If pro proc need	Reader N oblems c edures r	4730-01- lodule Pla occur while otify your erate a wo ms.	ate. e doing t supervis	, hese sor ar	nd if					
STACKER	19.	Clean/va	cuum pe	ower sup	plies.			21	9		4400	
MODULES: POWER SUPPLIES				WARNI allic end g the pow	s on th		cuum					
				h cover or power su		r mod	ule					

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U.S. Postal	Service		14/651/		E 0 · · ·		IDENTIFIC/					TV
Maintenance	Check	list	WORK CODE			PMENT			LASS ODE	NU	MBER	TYPE
			0 3	DB	CS			C	J	0	0 1	М
Equipment Nomenclatur			Equipme	nt Model	<u> </u>		Bulletin F			Occurre		
Delivery Bar C	Code So	orter		DBCS Ph	lase 2-5	1	MN	/14119			ECBM	
Part or	Item			Statement				Est.	Min.		Threshold	S
Component	No	(Comply wit	th all curre	nt safety p	orecautio	ons)	Time Reg	Skill Lev	Run	Pieces	Freq.
								(min)	LCV	Hours	Fed	
											(000)	
			fy power B–022–9		as two	fuse bl	ocks					
			g an app le of eacl									
		4. Rep	lace cove	ers.								
STACKER MODULES: FOAM PADS	20.	Check th finger of stacker p	the Stac	cker Fen	ce Ass			70	9		57200	
				NOT	E							
		Vol. Asser refere writing docun 1. Check 0023) and/o	to see if r degrade	re 11-1 idex Nu valid as ways us n availab m pads (they are ed in any	0, Tie umber s of the e the le. PSN 93 missing way.	r 1 F 38. date c most r 20-03- g, dam	Fence This of this ecent 000-					
		2. Make replac	a list of t cement a									
			rate a Wo found an struction	d record								
DBCS SYSTEM:	21.	Power U	p DBCS	system.				8	7		1	
POWER UP		1. Powe	er up pre	paration.								
		_	Ensure to rom work		material	s are r	emoved					
		b. F	Replace a	all machi	ne pane	ls.						
		c. C	lose all i	machine	doors a	nd cov	ers.					
				WARN	ING							
		equip applie requii Take	utious w ment w ed. Sor re that precau ng, tools	when p ne of tl the ma utions	oower he follo chine l to pre	has wing be rur event	been tasks nning. hair,					

				v i						•		
U.S. Postal	Service		WORK		EQUIPN		DENTIFICA		ASS	NU	MBER	TYPE
Maintenance	Check	list	CODE		ACRO				ODE			
			0 3	DB	C S			С	J	0	0 1	М
Equipment Nomenclature	e		Equipme				Bulletin Fil	ename	-1	Occurre	nce	
Delivery Bar C	ode Sc	orter		DBCS Pha	ase 2-5		MM	14119			ECBM	
									1			
Part or Component	Item No	(Statement a th all current			nc)	Est. Time	Min. Skill		Threshold	s
Component	NO	(i salety pre	caulio	15)	Req	Lev	Run	Pieces	Freq.
								(min)		Hours	Fed (000)	
											(000)	
		being	caught	in movin	g parts.							
		2. Resto		r to equir	ment as	nreer	ribed by					
				procedure								
				dures. Fo								
				er up the s								
				S-229, Vo								
				II local loc	ckout pro	cedui	res are					
		adher	red to.									
DBCS SYSTEM:	22.	Check a	ll svste	m interlo	ocks and	d em	eraencv	18	7			М
INTERLOCKS AND		stop swit							-			
E-STOPS		•	-									
				WARNI	NG							
		Be ee		when wer	king oro	d						
				vhen wor when p								
		applie		is task								
				unning.								
				ir, clothi								
				ipment fi								
			ving par			•	•					
					_							
				NOTE								
		When	perform	ing this st	tep, chec	k onl	v one					
				h and or								
				achine ru								
		other	interlock	and E-S	Stop swite	ches	while					
		machi	ne is sto	pped.								
					_							
				NOTE	=							
		This t	ask req	uires two	people.	Tir	ne is					
				affing pur			' light					
		condit	ions and	warning	sounds f	or ea	ch E-					
		Stop a	nd interl	ock.								
		1. Start	machin	e. Verif	fv that v	when	START					
				sed, start								
				r flash ar								
				ing horn			e horns					
				second								
				ators fla		a tota	al of 10					
				chine runs								
		2. Press										
				l panel as	sembly a	nd no	ote that					
		follow	ing occu	urs:								
		a. N	lachine s	stops imm	nediately.							
				•	,							

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U.S. Postal S	Service							·		IDENTIFI	CATIOI		100		MDEE	T./
Maintenance	Check	list		WO COI		_		EQUIPN ACROI			_		LASS ODE	NU	MBER	TYPE
	_	_	_	0	3	DB		S			_	С	J	0	0 1	М
Equipment Nomenclature				Equi		t Model	<u> </u>	<u> </u>	<u>ı</u>	Bulletin			İ	Occurre		
Delivery Bar C	oae Sc	orter	<u></u>		D	BCS PI	nase	2-5		N	1M141	19			ECBM	
Part or	Item					Statemen						st.	Min.		Threshold	ls
Component	No		(n all curre				ons)	R	me eq nin)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		k	b. L	amp	light	s in EN	1ERG	STC)P sw	/itch.	<u></u>		_			
		(RG STC e syste				nts on I column	1.					
		(d. F) Y lai	•				n contro						
		ŧ	e.F		ing S	start pu	shbui	tton d	loes ı	not start	t					
			Rese	t EM	ERG	STOP			n swi	itch and						
			a. S	Syster	m RE	EADY la ntrol pa	amp i		nates	on :						
		ł								es out o I column						
		(s out in TOP sv			ontrol	l panel						
		(d. N	1achi	ne c	an now	v be s	tartec	ł.							
			s ii s T c	witch ndica ame he ho ff, wh	n is p tors a time orns nile v	ressed around	l, start l sorte up wa for 5 j indic	t-up w er flas arning secol cators	warnin sh am g horn onds a s flash	nber. At ns sound and go n for a	t					
		f		•		der Mo hat the			•							
		l	1) M	achir	ne stop	s imn	nedia	tely.							
			2	or						r lights ol panel						
			3			Y lamp I panel.		s out (on sy	′stem						
			4	,		ng Star nachine	•	hbutt	on do	oes not						
		ę				ider Mo hat the										
			1			m REAI n contro			umin	ates on						
			2			MERG										

U.S. Postal	Service						IDENT	IFICA					
Maintenance	Check	list	WORK CODE			UIPMEN CRONYN				LASS ODE	NU	MBER	TYPE
			0 3	DB		S			С	J	0	0 1	М
Equipment Nomenclature Delivery Bar C		rter	Equipme	nt Model DBCS Pł	nase 2	-5	Bulle		ename 14119		Occurre	^{nce} ECBM	
	1								Ĩ.	N 4:		Threshold	
Part or Component	Item No	(0	Task Comply wi	Statement th all curre			ions)		Est. Time	Min. Skill	Run	Pieces	s Freq.
									Req (min)	Lev	Hours	Fed	i ieq.
I	<u> </u>								1		1	(000)	
		• -	•	column.									
			lachine o										
		all rer switcl cause and d actior	but startin maining hes one es action l above t ns descri e to occu	EMERG at time to is as des to occur ibed in it	STOF o ensu scribed when ems 3	P mushr ure that d in item pressec -a, b, ai	oom each o is 2-b, l and nd c	ne					
		interle or do actior occur items close stack displa top ro	out startin ocks one or, to en- or descri when of 3-a and d. Wher er there ay panel. ow of par ivated, li	e at a tim sure that bed in it pened an c occur n an inte will be a Red fu nel. Whe	ie, by o t each ems 2 nd act when rlock i n indio Il bin li en inte	opening one ca -c and c ions de panel c s activa cation o ights wile erlock is	of par uses d above scribed or door ted in n stack ll flash	e to l in is cer					
			problem				•						
DBCS SYSTEM: PREDICTIVE				ive ma	intena	ance ta	asks a	and	219	9		20000	
MAINTENANCE			Г	WARN	IING	٦							
		equip applie machi to pre and to	erform predictive maintenance tasks as rocedures. WARNING Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.										
				ΝΟΤ	ΓE								
		make vibrati Initiate annota investi	perform a note c on, noise a we ated are igation. are mac	ning all of any ar e, and/o ork ord ea that	of the rea wh or heat ler to	nere exe t are de cove	cessive tected er any	•					

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U.S. Postal S	Service						DENTIFICA		105			
Maintenance	Check	list	WORK CODE		EQUIP ACRC				ASS ODE	NU	MBER	TYPE
			0 3	D B	C S			С	J	0	0 1	М
Equipment Nomenclature Delivery Bar C		rter	Equipme	ent Model DBCS Ph	lase 2-5	ļ	Bulletin Fil MM	lename 114119		Occurre	^{nce} ECBM	
· · · · ·												
Part or Component	Item No				t and Instruc nt safety pre		ıs)	Est. Time	Min. Skill		Threshold	
					, F.			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
			Shut down		•		erence:					
			down Hand	the system	teps to pr tem refer S-229 Vol	to MS						
			presc locko	ribed by ut instruc	he machi the curre ction prov e procedu	ent loca riding	al					
			Open cov Open all r AC Power Panel, an Open or r includes c (Wimpy p switches. by-pass n run.	machine r Panel, l d Motor l remove a diverter p panels). (Rear M	y Main Ition nel. els, this emblies ck must							
			Ľ	WARN								
		equij appli mach to pr and		when p is task running. air, cloth ipment f	power I requires Take p ning, jewo	has l s that recaut elry, te	been t the tions ools,					
				NOT	E							
			⁻ Main Po netic conta				s the					
			Restore p prescribed providing									
		d. 3	Start the I					1				
				NOT	ъ							
		minin	nine must mum of 1 sonic and	5 minute	es prior to							

U.S. Postal	Service							ENTIFICA					
Maintenance	Checkl	ist	WORK CODE			QUIPMEN ACRONYM				LASS ODE	NU	MBER	TYPE
			0 3	DB	C	S			C	J	0	0 1	М
Equipment Nomenclatur		rter		ent Model DBCS P	hass	2_5		Bulletin Fil	lename I14119		Occurre	ence ECBM	
Delivery Bar C	JUUE 20							IVIIV	114119				·
Part or Component	ltem No		Task Comply wi	Statemen			ione	.)	Est. Time	Min. Skill		Threshold	ds
Component					ant said	ny precaut		,	Req	Lev	Run Hours	Pieces Fed	Freq.
									(min)		110013	(000)	
		2. Ultra	isonic s	cans.									
				NO	TE								
			he Long Probe \ s.										
		k	Jse ultra bearing a he Feed	issembli	es, toj	p and bo	ottoi	m of					
		r	noise.										
		k t	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Transport, for excessive vibration and noise.					m of					
		k t	•										
		k N	Jse ultra bearing a Motor Po vibration	issembli wer Dist	es, toj ributio	p and bo	ottoi	m of					
		k T	Jse ultra bearing a Fiers 1-4 excessive	issembli of the S	es, toj tacke	p and bo r module	otto	m of					
		3. Infra	red sca	ns.									
		F	Jse non- Power Ur nterlock connectio	nit front a on pane	and re I), sca	ear (mag an all terr	net min	ic					
		r c	connections and connector plugs. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Feeder for abnormal temperature.										
		t F	Use non-contact infrared to monitor all terminal connections and connection olugs in the Feeder Distribution Panel for abnormal temperature.										
			Jse non- notors, te					or all					

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U.S. Postal Service						aintenar Identifica				appo	i C	
		WORK			PMENT		CL	ASS	NU	IMBER		TYPE
Maintenance Checklis	St	CODE 0 3	DB		DNYM	<u> </u>	C C		0	0	1	М
Equipment Nomenclature		Equipmen		63		Bulletin Fi	-	J	Occurre	-	I	IVI
Delivery Bar Code Sort	er			ase 2-5			114119		Occurre	ECE	ЗM	
· · · · · · · · · · · · · · · · · · ·												
Part or Item Component No	(Task S Comply with		and Instru		ns)	Est. Time	Min. Skill		Thresh	olds	;
	(oop.j			oouuno		Req	Lev	Run Hours	Piece Fed		Freq.
							(min)		Tiours	(000		
		onnector bnormal t			nsport	for						
	te p	Jse non-c erminal co lugs in Re emperatu	onnectio eader m	ns and c	onnec	tion						
	te p	Jse non-c erminal co lugs in th bnormal t	onnectio e Motor	ns and c Distribut	onnec	tor						
	te p	Jse non-c erminal co lugs in th or abnorm	onnectio e Stack	ns and c er Modul	onnec	tor						
4.	Rest	ore equip	5.									
		Shut down	erence:									
	1	down t Handb	he syste	eps to p em refer S-229, V	to MS							
	2	prescr lockou	ibed by t instruc	ne mach the curre tion prov e proced	ent loc viding							
	to W	Replace al pols and r vork area. Close all n	naterial: Replac	s are ren ce all ma	noved chine	from panels.						
		E	WARN	ING								
		utious w ment w ed.	or on been									
	р	Restore po rescribed roviding l										
	С	Power on ourrent loc procedures	al comp			ng						

U.S. Postal	Service			1				DENTIFI						
Maintenance	Check	list	WORK CODE		A		MENT NYM		(LASS		NUM	IBER	TYPE
			0 3	D B	С	S			С		J	0 (0 1	М
Equipment Nomenclature		ut a u		ent Model		- <i>E</i>			Filename		Oco	curren	_{ce} ECBM	
Delivery Bar C	ode Sc	orter		DBCS Pł	lase 2	2-5		IV	M14119	1			ECRIN	
Part or	Item		Task	Statement	and In	struct	ion		Est.	Min		Т	hresholds	6
Component	No	(Comply w	ith all curre	nt safe	ty pre	cautio	ns)	Time Reg	Skil Lev	D.	un	Pieces	Freq.
									(min			urs	Fed	
													(000)	
FEEDER MODULE:	24.	Check Fe	eder al	ignment					15	7			1100	
ALIGNMENT CHECK				WARN	ING									
		equip applie	ment ed.	when wo when	oowe	r h	as	been						
		Check Fe template, accordan MMO-029 performan	PSN ce with 9-08, co	5220-0 most r overing	94-000 ecent feede	0-500 t MN	05, MO,	and i current	n y					
				NOT	E									
		work o accord curren	order to lance v tly MM	pancies do a full vith the IO-029-0 perform	feede most 8, co	er al rec overi	ignmo ent N ng fo	ent in MMO, eeder						
TRANSPORT MODULE: ICS	25.	ID Tag inspectio		System	elec	ctric	al er	nclosur	e 10	10			4400	
ELECTRICAL ENCLOSURE			[WARN	ING									
			ment	when wo when				or on been						
		Use the n reader sy perform p locate end switches and lamp	stem ele rocedur closures not conf	ction to er to upplies,										
READER	26.	Perform)V Re	ad	8	10			4400	
MODULE: WFOV ALIGNMENT		Head As	sembly F											
				WARN										
			ment	when wo when				or on been						

Maintenance Checklist WORK ODE EQUIPMENT ACRONYM CLASS COSE NUMBER TYPE Equipment Moden Delivery Bar Code Sorter 0 0 1 M 0 0 1 M Equipment Moden Delivery Bar Code Sorter Equipment Model Builetin Filmanner DBCS Phase 2-5 0 0 1 M Component Item No Task Statement and Instruction (Comply with all current safety precautions) Est. Minit No Minit No No Thresholds Image: Component Item No (Comply with all current safety precautions) Est. Minit No No No Thresholds Image: Component Item No (Comply with all current safety precautions) Est. Minit No No No Thresholds Image: Component No Item No (Comply with all current safety precautions) Est. Minit No No No Thresholds Image: Component No Item No (Comply No Est. Minit No No The safety precautions) Est. Minit No No No The safety precautions) Image: Safety precautionsi No Safety precaution	U.S. Postal S	Service					DENTIFICA	TION				
Equipment Nomenclature Delivery Bar Code Sorter 0 0 1 M Equipment Nomenclature Delivery Bar Code Sorter Example of the set o	Maintenance	Check	list	-		UIPMENT		CL		NU	MBER	TYPE
Equipment Nomenclature Component Equipment Model Butelin Fielwame MM14119 Cocurrence ECBM Part Of Delivery Bar Code Sorter Task Statement and Instruction. Ed. Min. Time Skill (Comply with all current safety precautions) Ed. Min. Fielwame Reg (min) Lev Feet (with fielwame Board (min) Non Theseholds Image: The Non Task Statement and Instruction. Ed. Min. (Comply with all current safety precautions) Ed. (with fielwame Reg (min) Lev Feet (with fielwame Board (min) Non Theseholds Image: The Non The WFOV Read Head Assembly (RHA) is position-mounted on a spacer plate. Is secured to a mounting plate. Ensure the spacer plate is properly aligned in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1. Image: Currently this will be MS-212 Section 5.2.2.1. Image: Currently this will be MS-212 Section 5.2.2.1. 2. Perform the WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.2.1. Image: Currently this will be MS-212 Section 5.2.2.1. Image:	Maintenance	oncon	list	-				-	-	0	0 1	М
Part or Component Item No Task Statement and instruction (Comply with all current safety precautions) Est. Reg (min) Min Lev Thresholds 1 The WFOV Read Head Assembly (RHA) is position-mounted on a spacer plate. Is secured to a mounting plate. Ensure the spacer plate is properly aligned in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1. Image: Comparison of the three WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1. Image: Comparison of the three WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1. Image: Comparison of the three WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1. Image: Comparison of the three WFOV Installation Alignment in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1. Image: Comparison of the three MSU actions, will a work order to document the time and events associated with those problems. Image: Comparison of the three MSU actions, when working around or on equipment when power has been applied. Image: Comparison of the three MSU actions. Image: Comparison of the three most of the three models. Image: Comparison of the three models. <t< td=""><td>Equipment Nomenclature</td><td>;</td><td></td><td>Equipme</td><td>_</td><td></td><td>Bulletin Fil</td><td>-</td><td></td><td></td><td>nce</td><td></td></t<>	Equipment Nomenclature	;		Equipme	_		Bulletin Fil	-			nce	
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READER MODULE: POWER SUPPLY27.Power supply PS1 (5VDC Reader) adjustment.5914300Be cautious when working around or on equipment when power has been applied.59143001.Open Reader lower left door.1.Open Reader lower left door.1.2.Place multimeter leads with clips on connectors J14 and J15 of Reader card cage backplane.1.A reading of 5.1 VDC should be present, if not adjust, 5 VDC power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC).771100STACKER MODULES: BIN SWITCH TEST28.Stacker bin-full switch checks.771100			positi DBC: is sec accol docu curre 2. Perfc accol docu curre 3. If any actiol	on-mour S, DIOS cured to er plate i rdance w mentatio ntly this orm the V rdance w mentatio ntly this v problen ns, write	nted on a space S, and CIOSS f a mounting pla s properly aligr vith the most re n covering this will be MS-212 VFOV Installati vith the most re in covering this will be MS-212 ns arise necess a work order to	er plate. the space te. Ensu hed in cent procedu Section on Alignr cent procedu Section sitating co o docume	On the er plate ire the re, 5.2.1. ment in re, 5.2.2.1. orrective ent the					
STACKER MODULES: BIN SWITCH TEST 28. Stacker bin-full switch checks. WARNING 7 7 1100		27.	probl	ems.				5	9		14300	
equipment when power has been applied. 1. Open Reader lower left door. 1. Open Reader lower left door. 2. Place multimeter leads with clips on connectors J14 and J15 of Reader card cage backplane. 3. A reading of 5.1 VDC should be present, if not adjust, 5 VDC power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC). 4. Close door. STACKER MODULES: BIN SWITCH TEST 28. Be cautious when working around or on equipment when power has been applied.	SUPPLY			Г	WARNING	1						
2. Place multimeter leads with clips on connectors J14 and J15 of Reader card cage backplane. 2. Place multimeter leads with clips on connectors J14 and J15 of Reader card cage backplane. 3. A reading of 5.1 VDC should be present, if not adjust, 5 VDC power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC). 4. Close door. STACKER MODULES: BIN SWITCH TEST 28. Stacker bin-full switch checks. 7 7 1100 Be cautious when working around or on equipment when power has been applied. Be cautious when working around or on equipment when power has been 7 7 1100			equip	ment								
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not adjust, 5 VDC power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC). 4. Close door.Image: Close door image: Clos			conn	ectors J ²								
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MODULES: BIN SWITCH TEST Be cautious when working around or on equipment when power has been applied.			4. Close	e door.								
SWITCH TEST WARNING Be cautious when working around or on equipment when power has been applied.	STACKER	28.	Stacker I	oin-full s	switch checks			7	7		1100	
equipment when power has been applied.	MODULES: BIN SWITCH TEST			[WARNING]						
1. Pull each stacker blade to its 3/4 full position			equip	ment								
			1. Pull e	each stao	cker blade to its	s 3/4 full j	position					

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Maintenance		dist	WORK CODE			MENT		Cl	_ASS ODE	NU	JMBER	TYPE
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Delivery Bar C	ode So	orter	D	BC2 Pr	ase 2-5		IVIIV	114119			ECBM	
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			ote that i									
			er modul er modul									
			er switch		серз. н							
		2. Pull e										
			hat its as er modul									
		and s	tacker m tive stacl	odule ho	orn beep							
		3. Verify guide	rod.	blade rio	des smoo	othly o	on the					
			supervis									
			nes and/o to repair									
STACKER	29.	Power su	ipply adj	just PS1	1 - 5 volt	s (sta	ckers).	14	9		14300	
MODULES: POWER SUPPLY			Ľ	WARN	ING							
			utious w ment v ed.									
		1. Place conne backp	ectors J	neter le 10 and			clips on stacker					
		obtair	djust the	power s reading	supply p		ometer to					
STACKER	30.	Gate and	solenoi	d pushe	er assem	ıbly te	est.	20	9		14300	
MODULES: GATE SOLENOID PUSHERS				WARN	ING							
			utious w ment v d.									
		test:		nance-S	Systems	<u>T</u> ests	ntenance s-Stacker					
		follov		lect Stad	ckers- <u>A</u> ll,	Seleo	elect the ct Gates-					
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Delivery Bar Cod	le Sor	rter		DBCS Ph	ase 2-5		MM	14119			ECBM	
Part or	Item		Task	Statement	and Instruc	tion		Est.	Min.		Threshold	s
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	2	each s a. One energy asse respondent DBC the module each 4. Type 5. Verific each LED push LED energy 6. Refe correction	r assem stacker n stacker n gizing e mbly s onding S monit test wi ule. Th stacker e T to be y gate a stacke s are o er. Gre blinks gized. r to sa ective mation.	nodule on module of very gate equentia to the t tor and Il move ne testin module. gin-Start nd pushe er. Also operating when	Test. er solenoi o verify o for ea is for pov a soleno letin MIV res an	by vie sted a lenoid atedly creen g Yes next iden ds are driver ch ga ver an bid is	ewing t a time, l pusher /. By on the or <u>N</u> o, stacker tical for e firing in module ate and d amber to be					
VALIDATION:	31. I	Perform basic ma	the mai	l path v	alidation	by c ws:	hecking	4	9		3	
MACHINE VALIDATION	2	equipi applie machi to pre and te in mov 1. Turn I opera 2. Start i press sorter warnii secon contin	ment d. Th ne be r vent ha est equ ving par Mainten tor cont machine ed, start flash ar ng horns nds and nue to fla	when p is task running. hir, cloth ipment f rts. ance Moo rol panel e. Verify t-up warn mber. At s sound. go off, wl ash for a	rking arc power h requires Take pr ing, jewe from bei de key sv to MAIN ⁻	has that recaute elry, te ng ca vitch o Γ posit ART s ators a he, sta bund fo ng ind 0 seco	been tions ools, ught n tion. witch is round rt-up or 5 licators inds.					

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Delivery Bar C	ode So	orter	[DBCS PI	nase 2-5		MN	/14119			ECBM	
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								(min)	201	Hours	Fed (000)	
							1		1	(000)		
					blems w e, inappro							
		gate a	activity,	or any in	dications							
			•	achine pi								
		4. Proce			er and pro on. Verify		hino					
		stops	• •	nop bull	n. veni	/ mac						
		5. If mad	chine fai	ils to stor	o, notify s	uperv	visor.					
					ent Maint							
				order, d ilure to s	urrently l stop.		002-03,					
			Ū		d turn M	ainten	ance					
		Mode	switch	back to I	ORMAL							
		contro	ol panel.									
DBCS	32.	Check la	bel prin	ter. Ver	ify label	quali	ty.	2	7		3	
VALIDATION: LABEL PRINTER			[WARN	IING							
			ment		orking ar power							
			ime. La		s LINE F er will pri							
					good qua ble to hu							
		write clear	a work the the	order to	int is una troublesh ad using 593.	noot a	nd/or					
DBCS VALIDATION: WFOV TEST DECK	33.	Run WF0 as follow		-		5-06-0	100-8292)	9	9		3	
				WARN	IING							
		equip applie machi	Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools,									

MMO-050-16 Maintenance Technical Support Center IDENTIFICATION U.S. Postal Service WORK EQUIPMENT CLASS NUMBER TYPE Maintenance Checklist CODE ACRONYM CODE В 0 3 D С S С J 0 0 1 М Equipment Nomenclature Equipment Model **Bulletin Filename** Occurrence **Delivery Bar Code Sorter** DBCS Phase 2-5 MM14119 ECBM Part or Est. Thresholds Item Task Statement and Instruction Min. Component No (Comply with all current safety precautions) Time Skill Run Pieces Freq. Req Lev Hours Fed (min) (000) and test equipment from being caught in moving parts. 1. Set up machine in DBCS Mode. 2. Load Run information. 3. Enter Operation number (750). Select F2 to accept. 5. Load sort plan WFOV TDK.EBF Select "Start Mail Processing". 7. Select Display ZIP/Pkts and On Line Display. 8. Start machine and process WFOV test deck. Ensure WFOV has a GAR that equals 99% or greater. If the GAR is lower than 99%, check read reject bins for any test cards that may have unreadable bar codes. lf necessary, perform a WFOV auto-calibration. 9. Verify the Certified Mail portion of the test deck sorts properly. 10. If any additional time is needed to correct ZIP result discrepancies and/or GAR issues, including auto-calibration, initiate a work order. 34. ICS reader validation. 9 DBCS 5 3 VALIDATION: ICS WARNING STRESS DECK Be cautious when working around or on equipment when power has been applied. This task requires that the machine be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts. Verify the ICS-3 reader as follows: 1. Set machine up to run in DBCS mode, use sort plan ICSTSTI.ebf. 2. From ON LINE MAIL PROCESSING screen, select Display ZIPs/Pkts. 3. From Select Display Option screen, select On-Line Display.

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Maintenance		ist	WORK CODE		EQUIP ACRC	MENT		CI	_ASS ODE	NU	MBER	TYPE
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Delivery Bar C	ode Sol	ter	L	JBCS PI	nase 2-5		IVIIV	114119			ECBM	
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Component		(,	Req (min)	Lev	Run Hours	Pieces Fed	Freq.
								()			(000)	
	4		machine 10-000-		n the stre	ss de	eck, PSN					
					reen, ver	ify th	at ICS 3					
		Read) Tags pre							
	e	6. Stop	machine).								
		•			cards so	rted o	correctly.					
		Refer	to the	most r	ecent MI	ИO, с	currently,					
				, U	with sorti	0.						
		3. Notify	supervi	sor or ar	ly probler	ns iou	ina.					
DBCS VALIDATION: UAA		Verify that can inter		-	ne in the	DBC	S mode	9	9		1100	
INTERCEPT			сорт од	WARN								
BARCODE			L									
		equip applie machi to pre and te	ment v d. Th ne be r vent ha	when is task running. iir, cloth ipment	orking arc power I requires Take p ning, jewe from bei	nas 5 tha recau elry, t	been t the tions tools,					
					eck, PSN), do the f							
		From the	Main Me	enu:								
		1. Selec	t Mode S	Select.								
		2. Selec	t DBCS.									
	3	3. Load	Run Info	ormation								
	4	4. Enter	Operati	on Numl	ber (750).							
	Ę	5. Selec	t F2 to a	accept.								
	e	pocke	et assign		as a confi sSpecial F UAA).							
	7	7. Start	mail pro	cessing	and run U	AA te	est deck.					
	8	3. Print	or view t	he End	of Run rep	oort.						
	Ş	test p	ieces div		t rate (# c the total a by 100).							
		10. Verify	that at	least 909	% of the L	IAA te	est deck					

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Maintenance	Check	list	WO COI					QUIPI ACRO	MENT NYM			-	LASS ODE	N	UMBER	TYPE
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Delivery Bar Code Sorter DBCS Phase 2-5							MM	14119			ECBM					
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Part or Component	Item No	(-	Task Statement and Instruction								Est. Time	Min. Skill		Threshold	IS
Component	nent No (Comply with all current safety precautions)							Req (min)	Lev	Run Hours	Pieces Fed	Freq.				
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		was i	nterc	epte	ed.											
		11. Log c	off the		stem	com	nnute	٦r								
		II. LOG C		, 3y	Storn	0011	iput	. וכ								
FINAL CLEAN UP	36.	Clean up										2	ALL			
		removed	from	tools, lubricants, rags, etc., are om the work area. Report all s to supervisor.												

ATTACHMENT 3

MASTER CHECKLIST

09-DBCS-CJ-001-M

Operational Maintenance

Time Total: 46 minutes

Task Item Number	Basic Task	Times Done	Total Time
	Time Min.	During Tour	per Tour Min.
1	1	1	1
2	1	1	1
3	1	3	3
4	1	3	3
5	1	3	3
6	1	3	3
7	2	3	6
8	2	3	6
9	1	3	3
10	5	3	15
11	2	2	2
		Total OPM Time	46

MMO-XXX-XX

U.S. Postal	U.S. Postal Service									DENTIF	ICAT	ION					
Maintenance	Maintenance Checklist								MENT				ASS ODE	NUMBER			TYPE
	auinment Nomenclature					В	С	S				C	J	0	0	1	М
Equipment Nomenclature Delivery Bar C	rter	Equ	ipmer D		_{idel} S Ph	ase	2-5		Bulletii		^{name} 4119		Occurr		ourly		
Part or	Part or Item							nstruc		20)		Est. Time	Min. Skill		Thre	eshold	ls
Component	(Comp	ny wit	nan	currer	it sar	ety pr	ecautio	15)		Req (min)	Lev	Run Hours	F	eces ed 00)	Freq.	

SAFETY STATEMENT	1. COMPLY WITH ALL SAFETY PREC Disconnect power and apply lock required by this instruction. Refe local lockout procedures to pro down and lock out this machi equipment and inspect dust Check for suspicious dust or unus If any unusual substance is for supervisor prior to proceeding further action on the equipment. THE USE OF COMPRESSED OR E IS PROHIBITED. When cleaning is required, an cleaning method such as a HE vacuum cleaner or a damp rag mu in place of compressed or blown free cloth or brush may be used equipment only when other cleanin cannot be used. Report safety def your supervisor immediately upon WARNING FOR EWP/PPE: Steps contained in this bulletin n the use of Electrical Work P Personal Protective Equipment (P to the current EWP MMO for a EWP PPE and barricade requirement	couts when to current perly shut ne. Open conditions. sual debris. und notify with any COWN AIR alternative PA filtered st be used air. A lint- on optical og methods ciencies to detection. hay require an (EWP) PE). Refer ppropriate	All	Т
DBCS OPM: MACHINE LOGBOOK	2. At the beginning of operation machine log. WARNING Be cautious when working arou equipment when power ha applied. This task requires machine be running. Take preto prevent hair, clothing, jewell and test equipment from being in moving parts. NOTE While performing listed op maintenance tasks, be alert for sounds, odors, or other indica potential failure conditions in the next set of the sounds of the set of the sounds of the set o	nd or on s been that the cautions y, tools, caught erational unusual tions of	9	Т

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Maintenance		list	WORK CODE		EQUIPI ACRO	MENT		CI	_ASS ODE	NU	MBER	TYPE
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Equipment Nomenclature Delivery Bar C		orter	Equipme [nt Model DBCS Pha	ase 2-5		Bulletin Fi MM	lename 114119		Occurre	nce Tourly	
Part or	Item			Statement a				Est.	Min.		Threshold	S
Component	No	(0	Comply wi	th all current	t safety pre	cautio	ns)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		Examine problems										
				NOTE	Ξ							
		machi	Operational checks must be made with machine processing mail in a normal operating mode.									
DBCS OPM: MACHINE SAFETY	3.	Every two beacons.		observe	warning	j hori	n and	1	9			Т
		Watch for beacons of				ng ho	rn and					
DBCS OPM:	4.	Every two	o hours	check la	mps.			1	9			Т
MACHINE INDICATOR LAMPS		Watch for used duri deficienci	ng norm	al machir	ne operat							
DBCS OPM: OPERATORS	5.	Every two with open		observe	Feeder	and o	check	1	9			Т
		Observe t operators problems corrective	are hav . Investi	ing exces gate as n	sive proc ecessary	cessir	ng					
DBCS OPM: VIDEO DISPLAY	6.	Every two screen.	o hours	check m	ail proce	essin	g	1	9			Т
TERMINAL WFOV		Accep	ure the s t Rate is	Accept R sort plan, correct fo	operating or the ma	g moo ail bei	de, and ng					
		a. O	peration	918 and 9	919 - 99.	1% G	BAR					
		b. Al	l other C	perations	s 98.8% (GAR						
		2. If MAF	alues:									
		du fac	ıst/debri: ceplate l	degraded s accumu by observ the upper	lations of ing the th	n WF numb	OV nail					
		b. If i ar ac	olems tive									

	Comilao										ppon	Jenici
U.S. Postal Maintenance		list	WORK CODE		EQUIF ACR0		IDENTIFICA	Cl	LASS ODE	NU	MBER	TYPE
			0 9	DB	C S			С	J	0	0 1	М
Equipment Nomenclatur Delivery Bar C		orter	Equipme [nase 2-5		Bulletin Fi MN	lename 114119		Occurre	^{nce} Tourly	
Part or Component	Item No	((and Instrue		ans)	Est. Time	Min. Skill		Threshold	S
								Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
DBCS OPM: OVERFLOW STACKER	7.	Every t Overflow Check typ determine malfunctio feeds, on path block	/ Reject be of ma which a bning. (e particu	Stacker area(s) c Check fo ular code	nt in over of the ma or indicat e, a singl		9			T		
DBCS OPM:	8.	found and	lifneed	ed write	a work oi	der.		2	9			Т
SORTING	0.	Take a sa the addre pocket. uniform m and if nee	ample fro ess block Verify r nanner.	om at lea k matcho nail pieo Docume	ast 5 stac es the so ces ente ent any p	kers a chemo stao	e for that cker in a					
DBCS OPM: READER, ICS-3	9.	accur loose, to the the fa 2. Docu	ressing xcessiv eded do k ICS-3 nulated /worn be aperture ceplate.	"alt-tab e ID TAG the foll ID tag re dust, dirt elts, payin e and to y probler	5" on the G ERROI owing: ader extended and deb and deb and deb and deb and deb and deb and deb and deb and deb and deb	host R me erior f pris or ular a d por	t VDT ssages or ttention	1	9			Т
DBCS OPM: ACE/MKAT LAPTOP COMPUTER	10.	the hy "KPI% 2. Unpla 3. DPS I 4. Take a correc MPEV	s displa Mainter ving iter erforman s to KPI perlink lo ". nned Ev nformati appropri- st any ab Vatch.	yed on finance V ms: nce Indic NOT can be c ocated in ents. on. ate actio normalit Generate	the MPE iew Scre cators (Ki E done by c n the colu	Watc en in PI) rep lickin mn til stigat ted in order	cluding port. g on iled e and i viewing for	5	9			Т

U.S. Postal Service			IDENTIFICATION														
Maintenance Checklist			WORK EQUIPMENT CODE ACRONYM							CI C	N	NUMBER		TYPE			
			0	9	D	В	С	S				С	J	0	0	1	М
Equipment Nomenclature Delivery Bar Code Sorter				Equipment Model Bulletin File DBCS Phase 2-5 MM ²								ename (14119		Occurrence Tourly			
Part or Component	Item No	()	Task Statement and Instruction (Comply with all current safety precautions)							Est. Time Req (min)	Min. Skill - Lev	Thresholds					
												Run Hours	1	ieces Fed 000)	Freq.		
DBCS OPM: ADMINISTRATIVE		following 1. Route 2. Any v 3. Make discre 4. Turn	the end of the operation tour, compile the owing information: Route sheet information. Any work orders generated. Make entries in Machine Logbook of any discrepancies found during the mail run. Turn this information in to Maintenance Supervision. Brief personnel coming on duty.									2	9				Т