# MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE



# Maintenance Management Order

**SUBJECT:** Update Operational, Predictive, & Preventive

Maintenance Guidelines for Delivery Bar Code Sorter Output Sub System (DBCS/OSS) using

eCBM

TO:

Maintenance Managers DBCS/OSS Offices

**DATE:** February 1, 2013

**NO**: MMO-017-13

FILE CODE: 2DA

wbro:mm12078ad

	Online Change Record								
Change # Date Description of Change									
2 05/22/2020 Added the Infrared Thermography information after the online change record.									
1	02/18/2019	Item 36 has additional information in the <b>NOTE</b> and steps 5 and 6. Item 40 Step7 has a reference update.							

This Maintenance Management Order (MMO) provides Preventive, Predictive, and Operational Maintenance Guidelines for the Delivery Bar Code Sorter Output Sub System and supersedes MMO-138-11. The acronym is DBCS/OSS and the class code is CI.

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

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

Web Access: http://mtsc.usps.gov

### WARNING

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

# 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.

For questions or comments concerning this bulletin contact the MTSC HelpDesk, either online at MTSC>HELPDESK>Create/Update Tickets or call (800) 366-4123.

Robert E. Albert

Manager

Maintenance Technical Support Center

**HQ** Maintenance Operations

- 1. Summary of Workload Estimate for DBCS/OSS
- 2. Master Checklist: 03-DBCS-CI-001-M: Power Off and Power On Tasks
- 3. Master Checklist: 09-DBCS-CI-001-M: Operational Maintenance

## **ATTACHMENT 1**

**SUMMARY** 

**WORKLOAD ESTIMATE** 

**FOR** 

DBCS/OSS

#### SUMMARY WORKLOAD ESTIMATE FOR DBCS/OSS

			SUMMARY	WORK LOAD E	ESTIMATES F	OR DBCS/O	<u>ss</u>	
Number of Processed >	mail pieces for 1 Year	58,000,000	High end e	High end estimate For a 110 St			ine_	_
Operation	Routine	Repair	Routine Productive		Total Servicing	Operatior	nal Maintenan Servicing	ce + Total
Days	Servicing per	Time per	+ Repair			1 Tour	2 Tours	3 Tours
	Machine	Machine	Time	Machine	Hrs/Yr	Hrs/Yr	Hrs/Yr	
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	OpM x 1	OpM x 2	OpM x 3	
5 Days	638.92	191.68	830.60	83.06	913.66	1,138.99	1,364.33	1,589.66
6 Days	731.65	219.50	951.15	95.11	1046.26	1,316.67	1,587.07	1,857.47
7 Days	824.38	247.31	1071.69	107.17	1178.86	1,494.33	1,809.79	2,125.26
*		ntenance esti 0% of total PM		on 30% of prev	entive maint	enance.		
						OPERATIO	NAL MAINTE	NANCE
						52 MIN. PE	R DAY PER N	MACHINE
						One Tour	Two Tours	Three Tours
					5 Day	225.33	450.67	676.00
					6 Day	270.40	540.80	811.20
					7 Day	315.47	630.93	946.40

	Machine Operating 5 Days/Week							
# of				Non-	<b>T</b>	Operation	al Maintenand	ce + Total
Stackers	Routine Servicing	Repair	Routine Servicing	Productive	Total Servicing	1	Servicing	1
	per	Time per	+ Repair	Time per	per	1 Tour	2 Tours	3 Tours
	Machine	Machine	Time	Machine	Machine	Hrs/Yr	Hrs/Yr	Hrs/Yr
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	OpM x 1	OpM x 2	OpM x 3
110	638.92	191.68	830.60	83.06	913.66	1138.99	1364.33	1589.66
126	643.85	193.16	837.01	83.70	920.71	1146.04	1371.38	1596.71
142	659.51	197.85	857.36	85.74	943.10	1168.43	1393.77	1619.10
158	675.22	202.57	877.79	87.78	965.57	1190.90	1416.24	1641.57
174	690.87	207.26	898.14	89.81	987.95	1213.28	1438.62	1663.95
190	710.93	213.28	924.21	92.42	1016.63	1241.96	1467.30	1692.63
206	726.58	217.98	944.56	94.46	1039.02	1264.35	1489.69	1715.02
222	742.29	222.69	964.97	96.50	1061.47	1286.80	1512.14	1737.47
238	757.94	227.38	985.32	98.53	1083.85	1309.18	1534.52	1759.85
254	778.00	233.40	1011.40	101.14	1112.54	1337.87	1563.21	1788.54
270	793.64	238.09	1031.73	103.17	1134.90	1360.23	1585.57	1810.90
286	809.36	242.81	1052.17	105.22	1157.39	1382.72	1608.06	1833.39
302	825.02	247.51	1072.53	107.25	1179.78	1405.11	1630.45	1855.78

	Mach	ine Operat	ing 6 Days	s/Week					
# 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	Time	Machine	Machine	Hrs/Yr	Hrs/Yr	Hrs/Yr	
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	OpM x 1	OpM x 2	OpM x 3	
110	731.65	219.50	951.15	95.12	1046.27	1316.67	1587.07	1857.47	
126	738.32	221.50	959.82	95.98	1055.80	1326.20	1596.60	1867.00	
142	754.84	226.45	981.29	98.13	1079.42	1349.82	1620.22	1890.62	
158	771.42	231.43	1002.85	100.29	1103.14	1373.54	1643.94	1914.34	
174	787.94	236.38	1024.32	102.43	1126.75	1397.15	1667.55	1937.95	
190	809.73	242.92	1052.65	105.27	1157.92	1428.32	1698.72	1969.12	
206	826.25	247.88	1074.13	107.41	1181.54	1451.94	1722.34	1992.74	
222	842.82	252.85	1095.67	109.57	1205.24	1475.64	1746.04	2016.44	
238	859.34	257.80	1117.14	111.71	1228.85	1499.25	1769.65	2040.05	
254	881.13	264.34	1145.47	114.55	1260.02	1530.42	1800.82	2071.22	
270	897.64	269.29	1166.93	116.69	1283.62	1554.02	1824.42	2094.82	
286	914.23	274.27	1188.50	118.85	1307.35	1577.75	1848.15	2118.55	
302	930.75	279.23	1209.98	121.00	1330.98	1601.38	1871.78	2142.18	

	Mach	ine Operat	ing 7 Days	s/Week				
# of Stackers	Routine	Repair	Routine	Non- Productive	Total	Operation	al Maintenand Servicing	ce + Total
	Servicing per	Time per	Servicing + Repair	Time per	Servicing per	1 Tour	2 Tours	3 Tours
	Machine	Machine	Time	Machine	Machine	Hrs/Yr	Hrs/Yr	Hrs/Yr
	(Hrs/Yr)	(Hrs/yr) *	(Hrs/Yr)	(Hrs/yr) **	(Hrs/Yr)	OpM x 1	OpM x 2	OpM x 3
110	824.38	247.31	1071.69	107.17	1178.86	1494.33	1809.79	2125.26
126	832.79	249.84	1082.62	108.26	1190.88	1506.35	1821.82	2137.28
142	850.17	255.05	1105.23	110.52	1215.75	1531.22	1846.69	2162.15
158	867.62	260.29	1127.91	112.79	1240.70	1556.17	1871.63	2187.10
174	885.01	265.50	1150.51	115.05	1265.56	1581.03	1896.49	2211.96
190	908.53	272.56	1181.09	118.11	1299.20	1614.67	1930.13	2245.60
206	925.92	277.78	1203.69	120.37	1324.06	1639.53	1954.99	2270.46
222	943.35	283.01	1226.36	122.64	1349.00	1664.46	1979.93	2295.40
238	960.74	288.22	1248.96	124.90	1373.86	1689.32	2004.79	2320.26
254	984.26	295.28	1279.54	127.95	1407.49	1722.96	2038.43	2353.89
270	1001.64	300.49	1302.13	130.21	1432.34	1747.81	2063.28	2378.74
286	1019.10	305.73	1324.83	132.48	1457.31	1772.78	2088.25	2403.71
302	1036.48	310 94	1347 42	134 74	1482 16	1797 63	2113 10	2428 56

Repair maintenance estimates be	maintenance estimates based on		of preventive maintenance.
В	Based on	10.00%	of total PM and repair.

		Power C	Off Tas	ks				
	Threshold ->	3K	1.1 M	1.1M	4.4M	4.4 M	57.2M	
	Item # ->	5	8	9	10	23	24	
	110	9	35	37	139	21	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	50	
# Stackers	206	6	30	18	60	18	60	Minutes
Oldokers	222	7	35	21	70	21	70	
	238	8	40	24	80	24	80	
	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 C	n Tas	ks				
		1				14.		
	Threshold ->	Month	1K	1.1M	14.3M	3	20M	
	Item # ->	28	25	34	35	36	29	
	110	18	5	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
Olackers	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	
		Power C	off Tas	ks				
			1.1			4.4	57.2M	
	Threshold ->	3K	M	1.1M	4.4M	M		
	Item # ->	5	8	9	10	23	24	
	110	9	35	37	139	21	70	
	126	1	5	3	10	3	10	
	142	2	10	6	20	6	20	
#	158	3	15	9	30	9	30	Minutes
Stackers	174	4	20	12	40	12	40	Williates
	190	5	25	15	50	15	50	
	206	6	30	18	60	18	60	
	222	7	35	21	70	21	70	

220	0	40	24	00	0.4	00
238	8	40	24	80	24	80
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 Tas	ks				
	Threshold ->	1 Month	1K	1.1M	14.3M	14. 3	20M	
	Item # ->	28	25	34	35	36	29	}
	110	18	5	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
Otackers	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	

		Power 0	Off Tas	ks				
	Threshold ->	3K	1.1M	1.1M	4.4M	4.4M	57.2M	
	Item # ->	5	8	9	10	23	24	
	110	9	35	37	139	21	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	50	
# Stackers	206	6	30	18	60	18	60	Minutes
	222	7	35	21	70	21	70	
	238	8	40	24	80	24	80	
	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 Tasks								
Threshold -> 1 Month 1K 1.1M 14.3M 14.3 20M								
	Item # ->	28	25	34	35	36	29	
# Stackers	110	18	5	7	14	20	219	Minutes

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	
206	12	2	6	4	12	62	
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-CI-001-M

POWER OFF AND POWER ON TASKS

Time Total: See roll-ups in Attachment 1.

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Matatana a Obaataliat	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	IUMBI	ER	TYPE
Maintenance Checklist	CO	DE				ACR(	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Βι	ulletir	Filer	name		Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Equipment Nomenclature Delivery Bar C		rter	Equipment Model DBCS/OSS	Bulletin Fil mm1	ename 2078a	d	Occurre	ECBM	
Part or Component	Item No		Task Statement and Instruction (Comply with all current safety precauti	ions)	Est. Time	Min. Skill		Threshold	s
Component	NO		Comply with all current salety precaut	ions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
SAFETY STATEMENT		Disconn required local local down a equipme Check for supervise	WITH ALL SAFETY PRECAME oct power and apply lockod by this instruction. Refer to ckout procedures to proposed lock out this machinent and inspect dust coor suspicious dust or unusual substance is found for prior to proceeding section on the equipment.	uts when o current erly shut he. Open onditions. al debris.	1	All			
		IS PROH When c cleaning vacuum in place free clot equipme cannot b	E OF COMPRESSED OR BLIBITED.  Eleaning is required, an all method such as a HEP/ cleaner or a damp rag must of compressed or blown at the or brush may be used on the cleaning one used. Report safety deficitions or immediately upon described.	Iternative A filtered t be used ir. A lint- on optical methods encies to					
		Steps co the use (PPE). F	IG FOR EWP/PPE: ontained in this bulletin ma of Personal Protective E Refer to the current Electri EWP) MMO for appropri nents.	quipment cal Work					
DBCS/OSS SYSTEM: REPORT			e, print, or view End of greport.	Day and	4	10		1	
ANALYSIS		procedur reports to	performing the power dow es, analyze data provided o determine if any areas of ma d or in need of attention.	on these					
DBCS/OSS SYSTEM: SHUTDOWN		accorda	wn the DBCS/OSS System in nce with the procedure in the ocumentation; presently the	most	4	9		1	
PRINTER		shut dow	s writing the detailed steps to prove the system are in MS Handb Volume B, Section 5.2.4.						
			NOTE						
		perfor	y problems are encountered rming these procedures repor ur supervisor.						

U.S. Postal Service								IDEN	TIFI	CATI	ON					
Maintenance Checklist	CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ER	TYPE
	0	3	D	В	С	S					C	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bull	letin	Filer	name	C	)ccurr	ence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	n12	078ad			E	CBM	

			1				
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	S
Compension		(comply wantamountainer, procedurerie)	Req	Lev	Run Hours	Pieces Fed	Freq.
			(min)		Tiours	(000)	
DBCS/OSS	4.	Power down and lock out power.	1	ALL		1	
SYSTEM: POWER	٦.	I ower down and lock out power.	'			'	
DOWN		WARNING					
		Before performing the following steps					
		you must don the appropriate PPE as required by the current Electrical Work					
		Plan (EWP) MMO.					
		WARNING					
		Electrical power will always be present					
		at the input of the disconnect device					
		unless the circuit is disabled at the facility power distribution panel located					
		at					
		Power down the machine and lock out its					
		electrical power as prescribed by the current local					
		lockout instructions providing lockout/restore					
		procedures.					
DBCS/OSS	5.	Mail search.	9	7		3	
SYSTEM: MAIL SEARCH		1. Remove all machine panels, except for					
52, ii (6) !		diverter plate cover assemblies (Wimpy panels), stacker lower front panel assemblies,					
		and Main Power Distribution panel.					
		2. Ensure each cover's gas spring and retaining					
		clip is able to hold cover in uppermost					
		position. Report defective components to					
		supervisor or perform work order.					
		3. Search all base plate areas and module					
		interiors for mail.					
		4. Remove any mail pieces found.					
		<ol><li>Remove any large amounts of debris while doing this mail search to prevent clogging of</li></ol>					
		the vacuum when doing vacuuming tasks.					
		6. Follow local procedures for returning mail to					
		operations for processing.					
DBCS/OSS	6.	Vacuum/clean machine.	30	7		60	
SYSTEM: VACUUM/CLEAN 1							
VACCOUN/CLEAN I				<u> </u>		1	

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Matatana a Obaataliat	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	IUMBI	ER	TYPE
Maintenance Checklist	CO	DE				ACR(	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Βι	ulletir	Filer	name		Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Equipment Nomenclature Delivery Bar Code S	Equipment Model Bulletin Finder DBCS/OSS mm1	lename 2078a	d .	Occurre	nce ECBM	IVI
Part or Item Component No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req	Min. Skill Lev	Run Hours	Thresholds Pieces Fed	Freq.
	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 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 if problem found. Refer to the most recent MMO, currently MMO-077-03, dealing with this problem. http://mtsc.usps.gov/bulletins.cfm  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				(000)	

U.S. Postal Service								IDEN	ITIFI	CAT	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	JMBE	ER	TYPE
	0	3	D	В	С	S					C	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bu	lletin	Filer	name	С	ccurr)	ence		
Delivery Bar Code Sorter		DBCS/OSS							mr	m12	078ad			E	CBM	

Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		<ol> <li>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-254. http://mtsc.usps.gov/msbooks/         <ol> <li>Open paper tray.</li> <li>Fill paper tray with paper.</li> <li>Close paper tray.</li> </ol> </li> <li>Reader Module 5V power supply and light barriers</li> <li>Exterior of the System Computer and the WFOV Processor</li> <li>Tray label printers cleaning and label stock loading         <ol></ol></li></ol>					
DBCS/OSS SYSTEM: VACUUM/CLEAN 2		Clean and/or vacuum the following areas of the machine:  WARNING  Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.	8	7		173	

U.S. Postal Service								IDE	NTIF	ICAT	ION					
	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	UMBI	ΞR	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bı	ulletir	Filer	name	(	Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Delivery Bar C	ode Sc	orter	DBCS/OSS	mm1	2078a	d		ECBM	
Part or Component	Item No		Task Statement and Instruction Comply with all current safety precautior	ns)	Est. Time	Min. Skill		Thresholds	6
Component	140	(	comply with all current curety precaution	10)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Clean	ICS-3 system electronic enclos interior of ICS-3 electronic enclosure filters.						
		2. Clean	ICS-3 system read head as follo	ows:					
		С	lean ICS-3 read head. Recomm leaner is Riptide, NSN 6850-01-3 164.						
			lean read head reflector. ecommended cleaner is Riptide						
		3. Clean	WFOV assembly.						
			WARNING						
		aroun of the	extreme caution when word the WFOV aperture. The eaperture may become extreduring use of the DBCS.	dges					
		A tr u	ollowing safety precautions, ren perture/Illumination assembly. ne thumbscrew on top and pull p to remove. Check the apertur nd sapphire glass for foreign obj	Loosen straight e plates					
		c s tr c	emove dust buildup on ext amera sapphire glass using dr wabs. If adhesive buildup appne sapphire glass, use a swabloth wetted with an acceptapproved cleaner.	y cotton ears on o or soft					
		II C A	dust is found inside Alumination assembly, refer to urrent documentation, currently appendix A for detailed instructions.	o most MS-212,					
		S	eplace Aperture/Illumination as lide assembly straight down on amera head assembly and numbscrew.	front of					
DBCS/OSS SYSTEM: VACUUM/CLEAN 3 STACKERS	8.	module	acker modules 2 through to by vacuuming; remove dus follows:		35	7		1100	

U.S. Postal Service								IDEN	ITIFI	CAT	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	JMBE	ER	TYPE
	0	3	D	В	С	S					C	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bu	lletin	Filer	name	С	ccurr)	ence		
Delivery Bar Code Sorter		DBCS/OSS							mr	m12	078ad			E	CBM	

Delivery Bar C	ouc oo	itoi	DBC3/033	11111111	207 oa	4		ECDIVI	
Part or	Item		Task Statement and Instruction	\	Est.	Min.		Threshold	S
Component	No	(1	Comply with all current safety precautior	ns)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
DBCS/OSS		Use e assen mach of its expose  Disca accor preve comb  1. Clear the r pocke This c	ines, wear plate extends past s base and into stacker sing sharp edges.  WARNING	ocket some edge area, erials s to eous	37	9		1100	
SYSTEM: BELTS, ROLLERS AND HARDWARE		Disca accor preve comb Starting proceed to end up #1. Then modules modules: 1. Chec indica splits 2. Write	WARNING	dule #1, machine module stacker stacker oort) for nity,	5				

U.S. Postal Service								IDE	NTIF	ICAT	ION					
	WC	RK			Е	QUIF	MENT	•			CLA	ASS	١	IUMB	ER	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	M
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bı	ulletir	Filer	name		Occui	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Delivery Bar C	oue so	rter	DBCS/OSS	mmi	2078a	<b>1</b>		FCRM	
Part or Component	Item No	(	Task Statement and Instruction Comply with all current safety precaution	ns)	Est. Time Req (min)	Min. Skill Lev	Run Hours	Thresholds Pieces Fed (000)	Freq.
DBCS/OSS	10.	for pr and/o as ne 4. In the unit fi 5. Write clean	work orders as needed for adjusting, and/or replacement of roller	of wear ollers or power stments, s.	116	7		4400	
SYSTEM: VACUUM/CLEAN 4		Edges sharp worki  Use eassen mach of its expose  Disca accor preve comb  While visual and conne found mainte includ (Wimp follow)  1. Clear	ines, wear plate extends past of shase and into stacker as base and into stacker as sing sharp edges.  WARNING  rd solvent soaked mater ding to local procedures nt pollution or spontane ustion.  NOTE  performing following tasks, of check of wiring harnesses, cal	be when becket some edge area, do a bling, loose is are ective doors ablies in the in all					

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
	0	3	D	В	O	S					C	I	0	0	1	М
Equipment Nomenclature	Equi	ipmer	nt Mo	del				Bul	lletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter			DE	OSS	3			mr	m12	078ad			ΕŒ	CBM		

Part or	Item		Task Statement and Instruction	Est.	Min.		Thresholds	s
Component	No		(Comply with all current safety precautions)	Time Req	Skill Lev	Run	Pieces	Freq.
				(min)		Hours	Fed (000)	
			including the vibrator assembly. Verify					
			vibrator motor power cord is not rubbing against frame.					
		2.	Clean Transport Module.					
			Clean all plates, covers, doors, and framework.					
			b. Remove and clean the two filters located in the knob of the air compressor, after cleaning reinstall.					
		3.	Tag Scanner Module - Clean/vacuum all plates, covers, doors, framework, and top of module.					
		4.	IJP Module - Clean/vacuum all plates, covers, doors, framework, and top of module.					
		5.	Clean the light barriers adjacent to the barcode printer print head by wiping away ink buildup from the light barrier lens using a cotton swab and Videojet makeup or cleaning solution.					
		6.	Drying Line Module - Clean/vacuum all plates, covers, doors, framework, and top of module.					
		7.	Reader Module - Clean/vacuum all plates, covers, doors, and framework.					
			CAUTION					
			Extreme care should be taken that rules regarding electro-static-discharge (ESD) are strictly followed when handling all printed circuit boards, including those in logic racks, system computers, etc. This includes the use of wrist straps and ESD pads.					
		8.	Using the Dust Containment Unit (NSN 4460-06-000-8366) or an ESD compatible vacuum (eBuy #58656), clean/vacuum System Computer and WFOV Computer. Remove covers from system computer and WFOV processor and clean. Re-install covers.					
		9.	Clean stacker modules. Clean/vacuum all plates, covers, doors, framework, diverter					

U.S. Postal Service								IDEN	TFIC/	TION						
Matatana a Objectit	WC	RK			Е	QUIF	MENT				CLA	SS	Ν	UMBI	ER	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CO	DE				
	0	3	D	В	С	S				(	2	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bull	etin Fi	enam	е	C	Occuri	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mm′	2078	3ad			E	CBM	

Delivery Bar C	ode So	orter	DBCS/OSS	mm1	2078a	d		ECBM	
Part or	Item		Task Statement and Instruction	>	Est.	Min.		Threshold	6
Component	No	(	Comply with all current safety precautior	is)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
			cover assemblies (Wimpy Pane er display panels back and front						
DBCS/OSS SYSTEM: VACUUM/CLEAN 4	10.5.	Vacuum/ Module.	clean top of Reader and Stack	er	23	7			Month
DBCS/OSS SYSTEM: SAFETY WARNING LABELS	11.	Refer safety MMO-numb-http://  1. Verify labels condit  2. Verify labels condit  3. Notify stacks work of	mtsc.usps.gov/bulletins.cfm reder modules have safety wa present, correctly located, and i ion. restacker modules have safety wa present, correctly located, and i ion. resupervisor of missing or worn feer safety warning labels and initial order to replace or remove and resupervisor and results.	is is part rning n good arning n good eeder/ate a	2	7		4400	
DBCS/OSS SYSTEM: ENCODERS	12.	Replace and Hose 1. Rema Coup Clam the R Modu 2. If pro- processing	Encoder (Tachometer) Tube Ce Clamp.  ove and replace the Encoder Tuber (NSN 4720-02-000-4060) and p (NSN 4730-01-336-5495) local deader Module Plate and in the label.  blems occur while doing these edures notify your supervisor, and ed, generate a work order to reserve problems.	oe d Hose ted on JP	20	9		14300	
DBCS/OSS SYSTEM: UNDER MACHINE CLEAN/CHECK	13.	1. Rem mac Tran 2. Usin	d check for mail under maching to the condition of the co	of d and look	58	7		57200	

U.S. Postal Service								IDEN	ITIFI	CAT	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	JMBE	ER	TYPE
	0	3	D	В	С	S					C	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bu	lletin	Filer	name	С	ccurr)	ence		
Delivery Bar Code Sorter		uipment Model DBCS/OSS							mr	m12	078ad			E	CBM	

		<u>'</u>					
Part or	Item	Task Statement and Instruction	Est.	Min. Skill	,	Thresholds	6
Component	No	(Comply with all current safety precautions)	Time Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		check for mail to last stacker.					
		, ,					
		<ol> <li>Follow local procedures for returning mail to operations for processing.</li> </ol>					
		<ol><li>Starting at the backside of the last stacker, work toward the Transport and Feeder sections, clean and vacuum any dust and debris found from under the machine.</li></ol>					
		6. Reinstall foam strips to backside of machine.					
FEEDER MODULE	14.	Check feeder wear and items as follows:	1	9		173	
HARDWARE		1. Teflon strip					
		2. Rubber strippers					
		3. Pick-off belts					
		4. Compensator levers					
		5. Check for recommended gap setting of 5.					
		<ol> <li>Generate a Work Order to replace as required. Refer to the most recent Maintenance Management Order covering feeder alignment and performance adjustments.</li> </ol>					
FEEDER MODULE:	15.	Check feeder alignment.	15	7		1100	
ALIGNMENT CHECK		Check feeder alignment (those steps that do not require power) using template, NSN 5220-04-000-5005, and in accordance with the most recent Maintenance Management Order covering feeder alignment and performance adjustments.  NOTE					
		If any discrepancies are found write a work order to do a full feeder alignment in accordance with the most recent MMO covering feeder alignment and performance adjustments.					
FEEDER MODULE:	16.	Check feeder transport for wear.	5	9		1100	
MAIL TRANSPORT HARDWARE		<ol> <li>Remove bottom feeder panel (clean). Check transport belt for splits, tears, and deformity. Check drive chain for stretch, sprockets for broken teeth and sprocket teeth wear. If chain needs lubrication, refer to DBCS maintenance handbook at completion of this</li> </ol>					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Matatana a Obaataliat	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	IUMBI	ER	TYPE
Maintenance Checklist	CO	DE				ACR(	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Βι	ulletir	Filer	name		Occur	rence		
Delivery Bar Code Sorter		quipment Model DBCS/OSS							m	m12	078ad			E	CBM	

Delivery Bar C	ode Sc	rter	DBCS/OSS	mmı	2078a	J		FCRM	
Part or Component	Item No	(	Task Statement and Instruction Comply with all current safety precaution	ıs)	Est. Time Req	Min. Skill Lev	Run	Thresholds Pieces	Freq.
					(min)		Hours	Fed (000)	
		mour for lo	ck transport blade, transport nting bracket, and sliding bearir ose bolts. ck transport blade assembly for . Ensure transport assembly	ng block bearing					
			othly along guide rod. ck pawl for wear.						
IJP MODULE: POSTNET BAR CODE PRINTER	17.	Clean Po and guid When waste Mater Eye p must	OSTNET bar code printer printe	rated ed in BDS). sield)	14	7		173	
		dried comp altern imple paper Other	WARNING  as part of its service. Do not pressed or blown air. Appropriate means of drying head must mented and may include us towels or use of vacuum such, equally effective methods termined locally.	use riate, st be se of ction.					
		use e Do no  1. Clear a. L b. F n c. Ir	CAUTION  g print head check and clear atreme care in charge tunnel at touch or bump charge tunner in POSTNET print head and guide. Ift fence off its mounting studs. Remove print head from deck planount.  Install print head onto service modulace service tray directly below it clean base plate of any ink, using and cleaning solution or make-up	area. I. e plate. te unt, and t. g towel					

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
	0	3	D	В	O	S					C	I	0	0	1	М
Equipment Nomenclature	Equi	ipmer	nt Mo	del				Bul	lletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter			DE	OSS	3			mr	m12	078ad			ΕŒ	CBM		

Part or Component   No	Delivery Bar C	oue ou	n tei	DBC3/033	1111111	2010a	J	ECDIVI	
fluid.  e. Clean tence using a towel and cleaning solution or make-up ink fluid.  f. Clean up any spilled or splattered ink. g. Remove print head cover, and check print head assembly for traces of ink. h. Clean print head as required. i. Replace print head cover, and re-install print head onto deck plate mount. j. Re-install fence on mounting studs. 2. Inkjet printer fluid replenishment. a. Check and replenish POSTNET printer fluid bottles.  NOTE  Do not use expired ink. b. Recommend removal and discarding of ink bottles if ink level is below 25%. c. Insert new bottle and replace cap. d. Clean up any spilled or splattered ink.  IJP MODULE: POSTNET BAR CODE PRINTER  18. Replace vacuum, make-up, and replenishment filters on the PC-70/80 (steps A1-3), and if using the 37PC, replace the vacuum filter of the Safety Data Sheets (MSDS).  NOTE  Procedures for filter replacements on the PC-70/80 are contained below in steps A1 through 3, and the procedure to replace the vacuum filter on the 37PC is contained in steps B1 though 7 below.  A Procedure for the PC-70/80					20)			Threshold	s
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e. Clean fence using a towel and cleaning solution or make-up ink fluid.  f. Clean up any spilled or splattered ink.  g. Remove print head cover, and check print head assembly for traces of ink.  h. Clean print head as required.  i. Replace print head cover, and re-install print head onto deck plate mount.  j. Re-install fence on mounting studs.  2. Inkjet printer fluid replenishment.  a. Check and replenish POSTNET printer fluid bottles.  NOTE  Do not use expired ink.  b. Recommend removal and discarding of ink bottles if ink level is below 25%.  c. Insert new bottle and replace cap.  d. Clean up any spilled or splattered ink.  IJP MODULE: POSTNET BAR CODE PRINTER  18. Replace vacuum, make-up, and replenishment filters on the PC-70/80 (steps A1-3), and if using the 37PC, replace the vacuum filter (step B1-7).  WARNING  When disposing of ink or ink saturated waste, refer to procedures outlined in current Material Safety Data Sheets (MSDS).  NOTE  Procedures for filter replacements on the PC-70/80 are contained below in steps A1 through 3, and the procedure to replace the vacuum filter on the 37PC is contained in steps B1 though 7 below.  A Procedure for the PC-70/80			f	fluid					
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POSTNET BAR CODE PRINTER  replenishment filters on the PC-70/80 (steps A1-3), and if using the 37PC, replace the vacuum filter (step B1-7).  WARNING  When disposing of ink or ink saturated waste, refer to procedures outlined in current Material Safety Data Sheets (MSDS).  NOTE  Procedures for filter replacements on the PC-70/80 are contained below in steps A1 through 3, and the procedure to replace the vacuum filter on the 37PC is contained in steps B1 though 7 below.  A Procedure for the PC-70/80			d. (	Clean up any spilled or splattered	l ink.				
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waste, refer to procedures outlined in current Material Safety Data Sheets (MSDS).  NOTE  Procedures for filter replacements on the PC-70/80 are contained below in steps A1 through 3, and the procedure to replace the vacuum filter on the 37PC is contained in steps B1 though 7 below.  A Procedure for the PC-70/80				WARNING					
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PC-70/80 are contained below in steps A1 through 3, and the procedure to replace the vacuum filter on the 37PC is contained in steps B1 though 7 below.  A Procedure for the PC-70/80				NOTE					
			PC-70 through the va	0/80 are contained below in step gh 3, and the procedure to re acuum filter on the 37PC is conta	os A1 place				
Replace both POSTNET printer vacuum			A Proc	cedure for the PC-70/80					
			1. Repl	ace both POSTNET printer vacu	um				

U.S. Postal Service								ID	ENTIF	ICATI	ON					
	WC	RK			Е	QUIF	MEN	T			CLA	ASS	١	IUMB	ER	TYPE
Maintenance Checklist	C	DE				ACRO	NYNC	1			CC	DE				
	0	3	D	В	С	S					C	I	0	0	1	M
Equipment Nomenclature	Equ	ipmer	nt Mo	del					Bulletir	ı Filer	name		Occui	rence		
Delivery Bar Code Sorter			DE	3CS	OSS	3			m	m12	078ad			Е	CBM	

Delivery Bar Code So	orter	DBCS/OSS	mm1	2078a	d		ECBM	
Part or Item		Task Statement and Instruction	`	Est.	Min.		Thresholds	3
Component No	(	Comply with all current safety precaution	is)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
	filters	S:						
	_	Disconnect two tubes on right ilter.	side of					
	b. E	Disconnect filter from elbow fitting	j.					
	c. F	Remove filter from mounting brac	ket.					
	d. lı	nstall new filter in mounting brack	ket.					
	e. C	Connect filter elbow fitting.						
	f. C	Connect two tubes to right side of	f filter.					
	2. Repla	ace both POSTNET printer make s.	e-up ink					
	a. F	Remove clamps at both ends of fi	ilter.					
		Remove make-up ink tubes fro ends of filter.	om both					
		Connect make-up ink tubes to early freplacement filter.	ach end					
	d. F	Replace clamps on each end of fi	Iter.					
		ace both POSTNET printer nishment ink filters.						
	a. F	Remove clamps at both ends of fi	ilter.					
		Remove ink tubes from both ends ilter.	s of					
		Connect ink tubes to each end of eplacement filter.						
	d. F	Replace clamps on each end of fi	Iter.					
		edure for replacing the vacuur oth 37PC IJPs	n filter					
		NOTE						
	manu http://	more detailed information ation refer the most current 3 al found on the MTSC web pmtsc.usps.gov/Equip_Details.cfmD=30&Prof2_ID=1&Cat1_ID=16	page.					
	filter	the fitting located on top of the vocunterclockwise one turn, and retting from the filter.						
	2. Pull t	he vacuum tube (attached to the	top of					

U.S. Postal Service								IDEI	NTIFI	CATI	ON					
Malatanana Obaalilat	WC	RK			Е	QUIF	MENT				CLA	SS	N	UMBE	R	TYPE
Maintenance Checklist	CO	DE			- 1	ACRO	MYM				CO	DE				
	0	3	D	В	С	S					С	I	0	0	1	M
Equipment Nomenclature	Equi	ipmer	nt Mo	del				Вι	ulletin	Filer	name	(	Occuri	ence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	m12	078ad			E	CBM	

Component	No		Est.	Min.		Threshold:	S
	NO	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
IJP MODULE: POSTNET BAR CODE PRINTER	4. 5. 6. 7. Closta 1. 2. 3.	Make certain that the O-ring is in place on the filter, then thread the new vacuum filter into the top of the ink module until it is finger tight, do not over tighten.  Push the tube (supplied with the filter) onto the stem on top of the vacuum filter, and insert the opposite end of the tube onto the barbed fitting located behind the vacuum filter.  Install the fitting removed in step #1 into the top of the new vacuum filter.  In the PC-70/80, clean bar code printer cap and stem assembly stainless steel vacuum be.  WARNING  When disposing of ink or ink saturated waste, refer to procedures outlined in current Material Safety Data Sheet (MSDS).  ean bar code printer cap and stem assembly ainless steel vacuum tube as follows:  Locate stainless steel vacuum tube mounted in cap and stem assembly at left-hand top of ink module.  Remove clear plastic vacuum tube from stainless vacuum tube.  Using long nose pliers, gently work stainless steel tube back and forth, and pull it out of cap and stem assembly.  Using cotton swab and Videojet cleaning		10		Fed	Freq.
	3.	Remove clear plastic vacuum tube from stainless vacuum tube. Using long nose pliers, gently work stainless steel tube back and forth, and pull it out of cap and stem assembly.					

U.S. Postal Service								IDE	NTIF	ICAT	ION						
	WC	RK			Е	QUIF	MENT	•			CLA	ASS		NUN	1BE	R	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CO	DE					
	0	3	D	В	С	S					С	I	C	(	0	1	M
Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletir	Filer	name		Оссі	rren	се		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad				EC	CBM	

5. Dry tube. 6. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly. 7. Attach clear plastic tube to stainless steel vacuum tube.  IJP MODULE: POSTNET BAR CODE PRINTER  20. Replace POSTNET printer (PC-70/80) final ink filter, replace mufflers. If using a 37PC IJP, replace the Filter Tube Assembly, Primary Ink		oue so		DBC3/033	1111111	20 <i>1</i> oad	ч	ECDIVI	
S. Dry tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel vacuum tube.   S. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.   T. Attach clear plastic tube to stainless steel tube back and stem assembly.   T. Attach clear plastic tube to stainless steel tube back and stem assembly.   T. Attach clear plastic tube to stainless steel tube back and stem assembly.   T. Attach clear plastic tube to stainless steel tube back and stem assembly.   T. Attach clear plastic tube tube back and stem assembly.   T. Attach clear plastic tube tube ba					ne)		1	Thresholds	S
6. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.  7. Attach clear plastic tube to stainless steel vacuum tube.  IJP MODULE: POSTNET BAR CODE PRINTER  8. Replace POSTNET printer (PC-70/80) final ink filter, replace mufflers. If using a 37PC IJP, replace the Filter Tube Assembly, Primary Ink	Сотронен	NO		Comply with an current salety precaution	15)	Req		Fed	Freq.
6. Using long nose pliers, gently work stainless steel tube back and forth into cap and stem assembly.  7. Attach clear plastic tube to stainless steel vacuum tube.  IJP MODULE: POSTNET BAR CODE PRINTER  8. Replace POSTNET printer (PC-70/80) final ink filter, replace mufflers. If using a 37PC IJP, replace the Filter Tube Assembly, Primary Ink			5. Drv t	tube.					
IJP MODULE: POSTNET BAR CODE PRINTER  Vacuum tube.  20. Replace POSTNET printer (PC-70/80) final ink filter, replace mufflers. If using a 37PC IJP, replace the Filter Tube Assembly, Primary Ink  28600			6. Using	g long nose pliers, gently work s					
POSTNET BAR CODE PRINTER  filter, replace mufflers. If using a 37PC IJP, replace the Filter Tube Assembly, Primary Ink		-			ss steel				
Filter, and check the Input Air Filter. Clean POSTNET Printer cabinets on all models PC- 70/80/37.	STNET BAR	1   1   1	filter, re replace Filter, a POSTNE	place mufflers. If using a 37 the Filter Tube Assembly, Prin nd check the Input Air Filter ET Printer cabinets on all mod	PC IJP, nary Ink r. Clean	43	10	28600	
WARNING				WARNING					
When disposing of ink or ink saturated waste, refer to procedures outlined in current Material Safety Data Sheets (MSDS).			waste curre	e, refer to procedures outline ent Material Safety Data Sh	ed in				
A Procedures for the PC-70/80:		4	A Proc	cedures for the PC-70/80:					
Replace trail and lead printer final ink filter at top of ink cylinder as follows:					k filter at				
a. Open doors on the POSTNET printer cabinet.			a.		Γ printer				
b. Place absorbent towels in area beneath ink module.					beneath				
c. Remove ink line and filter from ink cylinder.					rom ink				
d. Install new filter.			d.	Install new filter.					
e. Secure snugly, but do not over-tighten. Reattach ink line.			e.		r-tighten.				
f. Close doors on the POSTNET printer cabinet.			f.		Γ printer				
g. Replace Lead printer final ink filter at top of ink cylinder by repeating steps a through f above, but for the Lead printer.			Ū	of ink cylinder by repeating	steps a				
2. Clean POSTNET printer cabinets (lead and trail):					ead and				
a. Open doors on both POSTNET printer cabinets.				•	Γ printer				

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
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Equipment Nomenclature	Equi	ipmer	nt Mo	del				Bul	lletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	m12	078ad			ΕŒ	CBM	

Part or	Item No			Task Statement and Instruction	Est. Time	Min. Skill		Threshold	s
Component	INU			(Comply with all current safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
			b.	Vacuum clean electronics side.					
			C.	Clean ink side using lint free rags and appropriate solvent.					
			d.	Close doors on both POSTNET Printer cabinets.					
		3.		place inkjet printer muffler (lead and trail) ollows:					
			a.	Remove muffler from bottom of IJP cabinet.					
			b.	Install new muffler.					
		4.	Clos	se printer doors.					
		В	Pro	cedures for the 37PC printers:					
				NOTE					
			Man http:	more detailed information and tration refer to the most current MS ual found on the MTSC web page. //mtsc.usps.gov/Equip_Details.cfm?Pr ID=30&Prof2_ID=1&Cat1_ID=16					
		1.	Re	place primary ink filter (lead and trail).					
			a.	Place absorbent towels below the ink module to catch any ink that may spill when removing the primary ink filter.					
			b.	Remove the fitting from the bottom of the primary ink filter by turning with a 7/16 inch wrench.					
			C.	Unscrew the primary ink filter from the bottom of the ink module.					
			d.	Wipe excess ink from the bottom of the ink module mounting hole.					
			e.	Discard the old primary ink filter.					
			f.	Install the new primary ink filter into the bottom of the ink module until finger tight. Do not over tighten. Hand-tighten only.					
			g.	Install the fitting into the bottom of the primary ink filter.					

U.S. Postal Service								IDE	NTIF	ICATI	ON					
	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	UMBI	ΞR	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CO	DE				
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletir	Filer	name		Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Delivery Bar Co	ode Sc	orter	DBCS/OSS	mm1	2078a	d		ECBM	
Part or Component	Item No		Task Statement and Instruction Comply with all current safety precautior	ne)	Est. Time	Min. Skill		Thresholds	3
Component	110	\	Comply war all ourself safety procedures	10)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
			plete the following steps to chec ce the input air filter:	k and/or					
			Use a wrench to loosen the black the top of the elbow fitting.	ck nut at					
		i	Use a dull, pointed instrument to nput air filter out of the bottom on anifold.						
		r	Check the input air filter for damage. Replace the input ain necessary. If questionable, repuilter to ensure proper printer ope	filter if lace the					
			nstall the new or existing input nto the bottom of the air manifold						
		t t	Thread the elbow fitting back pottom of the air manifold, and he nut to secure the fitting. Do righten.	tighten					
IJP MODULE: POSTNET BAR CODE PRINTER	21.	Replace ink bottle	Bottle Filter Assemblies in boses.	th IJP	2	9			60 Wks
BOTTLE FILTER			WARNING						
		wast	n disposing of ink or ink satu e, refer to procedures outline ent Material Safety Data Sh OS).	ed in					
			NOTE						
			procedure is applicable to Ink I s on the PC 70/80 and PC 37 In ers.						
		filter t	he bottle (ink or make-up), in wh tube assembly is being replaced the fluid pan.						
		attacl	he cap off the bottle, and slide the hed bottle filter tube assembly ou e. Place the bottle aside.						
			ove the fitting from the top of the ng counterclockwise one full turn.						

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
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Equipment Nomenclature	Equi	ipmer	nt Mo	del				Bul	lletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	m12	078ad			ΕŒ	CBM	

Part or	Item	Task Statement and Instruction	Est.	Min.		Threshold	S
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		4. Pull the line with attached rubber tube off the cap top.					
		5. Discard the old filter tube assembly.					
		<ol><li>Install the fitting on the top of the cap on the new bottle filter tube assembly.</li></ol>					
		7. Install the line with attached rubber tube (removed in step 4) on the top of the cap on the new bottle filter tube assembly.					
		8. Insert the bottle filter tube assembly into the bottle, and push the cap down to secure the assembly. Place the bottle into the fluid pan.					
		<ol><li>Repeat steps 1-8 to replace the filter tube assembly in the other bottle.</li></ol>					
READER	22.	WFOV foam roller check.	1	9		4400	
MODULE: WFOV FOAM ROLLER	22.	Check WFOV foam roller in Reader module. Replace roller if necessary.	•			1100	
STACKER MODULES: POWER	23.	Clean/vacuum power supplies. WARNING	21	9		4400	
SUPPLIES		Use non-metallic ends on the vacuum while cleaning the power supplies.					
		<ol> <li>Remove each cover on stacker module 5/24/42 VDC power supplies.</li> </ol>					
		<ol><li>Verify power supply has two fuse blocks (MSB-022-98).</li></ol>					
		<ol> <li>Using an approved vacuum cleaner, clean inside of each power supply assembly.</li> </ol>					
		4. Replace covers.					
STACKER MODULES: FOAM PADS	24.	Check the Foam Pads located on every Guard Finger of the Stacker Fence Assembly in each Stacker Pocket area all Tiers.	70	9		57200	
		NOTE					
		For a location reference use MS-229, Vol. E, Figure 11-10, Tier 1 Fence Assembly, Index Number 38. This reference was valid as of the date of this writing, as always use the most recent documentation available.					

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Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bı	ulletir	Filer	name	(	Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

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Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	5
Component	No	(Comply with all current safety precautions)	Time Req (min)	Skill Lev	Run Hours	Pieces Fed (000)	Freq.
		<ol> <li>Check the Foam Pads (NSN 9320-03-000-0023) to see if they are missing, damaged, and/or degraded in any way.</li> <li>Make a list of the Foam Pads needing replacement and their locations.</li> <li>Generate a Work Order to replace the Foam Pads found and recorded in Steps 1 and 2 of this instruction.</li> </ol>					
DBCS/OSS SYSTEM: MACHINE PREP	25.	<ol> <li>Prepare machine for power up.</li> <li>Ensure tools and materials are removed from work area.</li> <li>Replace all machine panels.</li> <li>Close all machine doors and covers.</li> </ol>	5	7		1	
DBCS/OSS SYSTEM: POWER UP		Restore power to the equipment using the following reference.  WARNING  Be cautious when working around or on equipment when power has been applied.  For detailed steps to properly power up the system refer to MS Handbook MS-235, Volume B, Section 5.2.5. Also ensure all local Lockout procedures are adhered to.	3	7		1	
DBCS/OSS SYSTEM: POWER UP IJP		Power up the inkjet printer.  WARNING  Be cautious when working around or on equipment when power has been applied.  Perform normal power On of inkjet printers in accordance with the most recent documentation for the PC-70/80 and/or 37PC.	2	7		1	
DBCS/OSS SYSTEM: INTERLOCKS AND E-STOPS	28.	Check all system interlocks and emergency stop switches.  WARNING	18	7			М

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
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Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	m12	078ad			ΕŒ	CBM	

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Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	-	Thresholds	S
Component	140	(comply with all culterit safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		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.					
		NOTE					
		When performing this step, check only one interlock switch and one emergency stop switch with machine running. Check all other interlock and E-Stop switches while machine is stopped.					
		NOTE					
		This task requires two people. Time is doubled for staffing purposes. Verify light conditions and warning sounds for each E-Stop and interlock.					
		. Start machine. Verify that when START switch is pressed, start-up warning indicators around sorter flash amber. At same time, start-up warning horns sound. The horns sound for 5 seconds and go off, while warning indicators flash for a total of 10 seconds. Machine runs.					
		<ul> <li>Press EMERG STOP mushroom switch on feeder control panel assembly and note that following occurs:</li> </ul>					
		a. Machine stops immediately.					
		b. Lamp lights in EMERG STOP switch.					
		<ul> <li>Red EMERG STOP indicator lights on appropriate system control panel column.</li> </ul>					
		<ul> <li>d. READY lamp goes out on system control panel.</li> </ul>					
		e. Pressing Start pushbutton does not start machine.					
		. Reset EMERG STOP mushroom switch and note that following occurs:					
		<ul> <li>System READY lamp illuminates on system control panel.</li> </ul>					

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Maintenance	Chock	liet	_												NU	MBE	R	TYPE
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Equipment Nomenclatur			Equipme				_		E					Oco	curre			
Delivery Bar C	Code So	rter		DE	BCS/	OSS	3			mm	1120	78ad	d			EC	CBM	
Part or	Item															Thre	shold	ls
Component	No		(Comply with	emply with all current safety precautions)										Pi	un	Dic	2020	Freq.
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		d. I	Machine o	can r	now b	oe s	tarte	d.										
			Start mac switch is p															

indicators around sorter flash amber. At same time, start-up warning horns sound. The horns sound for 5 seconds and go off, while warning indicators flash for a total of 10 seconds. Machine runs.

Open Reader Module front panel door and note that the following occurs:

1) Machine stops immediately.

2) Red EMERG STOP indicator lights on appropriate system control panel

3) READY lamp goes out on system

4) Pressing Start pushbutton does not

Close Reader Module front panel door and note that the following occurs:

1) System READY lamp illuminates on

2) Red EMERG STOP indicator goes out on appropriate system control

Without starting and stopping machine, check all remaining EMERG STOP mushroom switches one at time to ensure that each one causes actions as described in items 2-b, c, and d above to occur when pressed and actions described in items 3-a, b, and c above to occur when they are reset.

**WARNING** 

Before performing the following steps you must don the appropriate PPE as

system control panel.

column.

control panel.

start machine.

panel column.

h. Machine can now be started.

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Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
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Equipment Nomenclature	Equi	ipmer	nt Mo	del				Bul	lletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	m12	078ad			ΕŒ	CBM	

			<del>,                                    </del>				
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	s
отпропени	110	(Somery war an ourrent salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
						17/	
		required by the current Electrical Work Plan (EWP) MMO.  5. Without starting and stopping machine, check interlocks one at a time, by opening panel or door, to ensure that each one causes actions described in items 2-c and d above to occur when opened and actions described in items 3-a and c occur when panel or door closed. When an interlock is activated in stacker there will be an indication on stacker display panel. Red full bin lights will flash on top row of panel. When interlock is deactivated, lights will go out.  6. If any problems are found, notify supervisor.					
DBCS/OSS SYSTEM: PREDICTIVE MAINTENANCE	29.	Perform predictive maintenance tasks and procedures.  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.  WARNING  Before performing the following steps you must don the appropriate PPE as required by the current Electrical Work Plan (EWP) MMO.  NOTE  While performing all of the PdM tasks, make a note of any area where excessive vibration, noise, and/or heat are detected. Initiate a work order to cover any annotated area that requires additional	219	9		20000	
		investigation.  1. Prepare machine.  a. Shut down the DBCS/OSS System in accordance with the following reference:  1) For detailed steps to properly shut					

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U.S. Postal  Maintenance		list	WORK CODE		AC	UIPMENT RONYM	IDENTIFICA	Cl	_ASS ODE		MBER	TYPE
Equipment Nomenclatur Delivery Bar C		rter	0 3 Equipmer	nt Mode		S	Bulletin Fi	C lename 12078a	l d	Occurre	0   1 ence ECBM	M
Part or Component	Item No	((			ent and Ins rrent safety		ns)	Est. Time Req (min)	Min. Skill Lev	Run Hours	Threshold Pieces Fed (000)	ds Freq.
		Before you no require Plan (  b. Ca a P a re d p R	Handle Section  Power prescribe lockout lockou	r dowrribed but instruct/restorming n the he cur med doo nel, Fe doo nel, Fe attended to overrid n Power in the new to overrid n Power in the new to overrid not not not new to overrid not not not new to overrid new to over the new to overrid new to over the new to ov	rstem reforms 235, 14.  In the macony the cuructions pore proces  RNING  The following appropriate Electronic Electronic Panels over asset the interlocer Unit mets for DE	volume chine as rrent loc providing edures.  lowing riate PF ectrical e panels ing Main stribution anel. Opels, this imblies (ck switch ust by-p	steps E as Work  Open AC Panel, en or includes Wimpy nes. ass					

#### **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.

#### NOTE

Rear Main Power Unit must by-pass the magnetic contacts for DBCS to run.

#### NOTE

Do not power up inkjet printers at this time.

- c. Except for the IJP, restore power to equipment as prescribed by the current local procedure providing lockout/restore procedures.
- d. Start the DBCS/OSS machine.

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Maintenance Checklist	CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ER	TYPE
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Equipment Nomenclature	Equ	ipmer	nt Mo	del				В	ulletin	Filer	name	C	ccurr	ence		
Delivery Bar Code Sorter		Equipment Model DBCS/OSS								m12	078ad			E	CBM	

·								
Part or Component	Item No		Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	s
Component	110		(Comply with all culterit safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		I						
			NOTE					
		min	chine must have been running for a imum of 15 minutes prior to doing the asonic and infrared scans.					
		2. Ult	rasonic scans.					
			NOTE					
			the Long Range Module (cone) on the a-Probe when doing the ultrasonic ns.					
		a.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Feeder, for excessive vibration and noise.					
		b.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Transport, for excessive vibration and noise.					
		C.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Tag/Scanner module, for excessive vibration and noise.					
		d.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the IJP Printer module, for excessive vibration and noise.					
		e.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Drying Line module, for excessive vibration and noise.					
		f.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Reader module, for excessive vibration and noise.					
		g.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Motor Power Distribution, for excessive vibration and noise.					
		h.	Use ultrasonic detector to monitor all bearing assemblies, top and bottom of					

U.S. Postal Service								IDI	ENTIF	ICATI	ON					
Malatanaa Obaalilat	WC	RK			Е	QUIF	MEN	Т			CLA	ASS	N	UMBI	ΞR	TYPE
Maintenance Checklist	CO	DE				ACRO	NYN	l			CO	DE				
	0	3	D	В	С	S					С	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				E	Bulletin	Filer	name		Occur	rence		
Delivery Bar Code Sorter			DE	3CS/	OSS	3			mı	m12	078ad			E	CBM	

Delivery Bar Code Sorter		rter	DBCS/OSS mm12078a		id ECBM				
Part or Component	Item No		Task Statement and Instruction (Comply with all current safety precaution	15)	Est. Time Req (min)	Min. Skill Lev	Thresholds		
	140		(comply with all current salety precautor	113)			Run Hours	Pieces Fed (000)	Freq.
			Tiers 1-4 of the Stacker modules excessive vibration and noise.	, for					
	3.		rared scans.						
		a.	Use non-contact infrared to scan Power Unit front and rear (magne interlock on panel), scan all termi connections and connector plugs	etic inal					
		b.	Use non-contact infrared to moni motors, terminal connections, and connector plugs in the Feeder for abnormal temperature.	d					
		C.	Use non-contact infrared to moni terminal connections and connections in the Feeder Distribution Fabrormal temperature.	tion					
		d.	Use non-contact infrared to monimotors, terminal connections, and connector plugs in the Transport abnormal temperature.	d					
		e.	Use non-contact infrared to moniterminal connections and connections in the Tag/Scanner module abnormal temperature.	tion					
		f.	Use non-contact infrared to moniterminal connections and connections in the IJP module for abnortemperature.	tion					
		g.	Use non-contact infrared to moniterminal connections and connections in the Drying Line module fabnormal temperature.	tion					
		h.	Use non-contact infrared to moni scan all terminal connections and connection plugs in the Drying Tr module for abnormal temperature	d ansport					
		i.	Use non-contact infrared to moniterminal connections and connections in Reader module for abnotemperature.	tion					
		j.	Use non-contact infrared to moni terminal connections and connec plugs in the Motor Distribution Pa	tor					

U.S. Postal Service								IDEI	NTIF	ICATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	Ν	UMBE	ĒR	TYPE
	0	3	D	В	C	S					C	I	0	0	1	М
Equipment Nomenclature	Equ	pmer	nt Mo	del				Вι	ılletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter		DBCS/OSS						mı	m12	078ad			E	CBM		

Delivery Bar C	oue 30	TIEI DBC3/033 IIIII12	Lu i oal	ı		ECDIVI	
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	-	Thresholds	6
		(	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		abnormal temperature.					
		k. Use non-contact infrared to monitor all terminal connections and connector plugs in the Stacker Modules, Tiers 1-4 for abnormal temperature.					
		4. Restore equipment to ready status.					
		Shut down the DBCS/OSS System in accordance with the following references:					
		Refer to MS Handbook MS-235, Volume B, Section 5.2.4 for detailed steps to properly shut down the system.					
		<ol> <li>Power down the machine as prescribed by the current local lockout instructions providing lockout/restore procedures.</li> </ol>					
		WARNING					
		Before performing the following steps you must don the appropriate PPE as required by the current Electrical Work Plan (EWP) MMO.					
		b. Replace all panels and doors. Ensure tools and materials are removed from work area. Replace all machine panels. Close all machine doors and covers.					
		WARNING					
		Be cautious when working around or on equipment when power has been applied.					
		c. Restore power to equipment as prescribed by the current local procedure providing lockout/restore procedure.					
		d. Power on computer systems using current local computer restore procedures.					
		e. Perform normal power on of inkjet printers in accordance with the most recent documentation for the PC-70/80					

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintanana Chaaklist	WC				_		MENT					ASS	N	UMBE	ΞR	TYPE
Maintenance Checklist	CO	DE				<u>ACRC</u>	MYM				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del			•	Bu	lletin	Filer	name		Occurr	ence		
Delivery Bar Code Sorter		DBCS/OSS					mr	n12	078ad			E	CBM			

Delivery Bar Co	ode Sc	orter	DBCS/OSS	mm1	2078ad	d		ECBM	
Part or Component	Item No	(	Task Statement and Instruction Comply with all current safety precaution	ns)	Est. Time	Min. Skill	Run	Thresholds Pieces	Freq.
					Req (min)	Lev	Hours	Fed (000)	rieq.
		а	nd/or 37PC.						
FEEDER MODULE: ALIGNMENT	30.	Check fe	eder alignment.		15	7		1100	
CHECK			•	or on been					
		template accordan Managen	ce with the most recent Mair nent Order covering feeder a ormance adjustments.	and in tenance					
			NOTE						
		work of accord coveri	discrepancies are found, wrorder to do a full feeder alignment dance with the most recent ng feeder alignment mance adjustments.	ent in					
TAG SCANNER MODULE: ID TAG READER		ID Tag inspection	Reader System electrical er on.	nclosure	10	10		4400	
T.E. T.B.E.T.			WARNING						
		you r requi	e performing the following s must don the appropriate PP red by the current Electrical V (EWP) MMO.	E as					
			WARNING						
				or on been					
		Order, cu Tag read to perform to locate supplies, incorrect	most recent Maintenance Manurently MM0-113-08, covering er system electrical enclosure in procedures on the ICS reader e enclosures with defective switches not configured lamps, and lamps not installed c.usps.gov/bulletins.cfm	ICS ID- spection in order power properly,					
READER MODULE: WFOV			the following on the WFOV Resembly on the DBCS.	ead	8	10		4400	

U.S. Postal Service								IDEN	ITIFI	CAT	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	JMBE	ER	TYPE
	0	3	D	В	С	S					C	I	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bu	lletin	Filer	name	С	ccurr)	ence		
Delivery Bar Code Sorter		DBCS/OSS						mr	m12	078ad			E	CBM		

Delivery Bar C	ouc oc	Titel DBC3/033	11111112076	au		ECDIVI	
Part or	Item	Task Statement and Instruction	Est	Min.		Thresholds	s
Component	No	(Comply with all current safety precautions)	Tim Red (mir	Lev	Run Hours	Pieces Fed (000)	Freq.
AL IONIMENIE	1					(000)	
ALIGNMENT							
		WARNING					
		Before performing the following step	ne				
		you must don the appropriate PPE a required by the current Electrical Wo Plan (EWP) MMO.	as				
		WARNING					
		Be cautious when working around or continuous equipment when power has been applied.					
		<ol> <li>The WFOV Read Head Assembly (RHA) position-mounted on a spacer plate. On DBCS, DIOSS, and CIOSS the spacer p 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</li> </ol>	the late ne				
		<ol> <li>Perform the WFOV Installation Alignmen accordance with the most recent documentation covering this procedure, currently this will be MS-212, Section 5.2</li> </ol>					
		<ol> <li>If any problems arise necessitating corre actions, write a work order to document t time and events associated with those problems.</li> </ol>					
READER MODULE: POWER	33.	Power supply PS1 (5VDC Reader) adjustn	nent. 5	9		4400	
SUPPLY		WARNING					
		Before performing the following step you must don the appropriate PPE a required by the current Electrical Wo Plan (EWP) MMO.	as				
		WARNING					
		Be cautious when working around or c equipment when power has bee					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	UMBI	ΞR	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CC	DE				
	0 3 D		D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Bı	ulletir	Filer	name	(	Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Delivery Bar C	ode Sc	rter	DBCS/OSS	mm12	2078ad	i c		ECBM	
Part or Component	Item No		Task Statement and Instruction Comply with all current safety precautior	ne)	Est. Time	Min. Skill		Thresholds	;
Component	NO	(	Comply with all current salety precaution	15)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		applie	ed.						
		1. Oper	n Reader lower left door.						
			e multimeter leads with c ectors J14 and J15 of Read backplane.	lips on er Card					
		not poter	ading of 5.1 VDC should be pr adjust, 5 VDC power ntiometer to obtain a reading (+0.1/-0.0 VDC).	supply					
		4. Close	e door.						
STACKER	34.	Stacker	bin-full switch checks.		7	7		1100	
MODULES: BIN SWITCH TEST			WARNING						
			•	or on been					
		and r stack stack	each stacker blade to its 3/4 full prote that its associated red indicater module display panel flashes ter module horn beeps. Note defeater switches.	ator on and					
		note stack and s	each stacker blade to its full posite that its associated red indicator of the module display panel is illumi stacker module horn beeps. Note of the stacker switches.	on nated					
		3. Verify guide	y stacker blade rides smoothly or e rod.	n the					
		switc	y supervisor of defective stacker hes and/or blades and initiate a to repair or replace as necessal						
STACKER MODULES:	35.	Power si	upply adjust PS1 - 5 volts (stac	ckers).	14	9		14300	
POWER SUPPLY			WARNING						
		you r requi	e performing the following s must don the appropriate PP red by the current Electrical \ (EWP) MMO.	E as					

U.S. Postal Service								IDE	NTIFI	CATI	ON					
	WC	RK			Е	QUIP	MENT				CLA	ASS	Ν	UMBE	₽R	TYPE
Maintenance Checklist	CO	DE			- 1	<b>ACRC</b>	MYM				CO	DE				
	0	3	D	В	С	S					С	I	0	0	1	М
Equipment Nomenclature	Equi	ipmer	nt Mo	del				Вι	ulletin	Filer	ame	(	Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			mr	m12	078ad			E	CBM	

Part or	Item	Task Statement and Instruction	Est. Time	Min. Skill		Thresholds	3
Component	No	(Comply with all current safety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		WARNING  Be cautious when working around or on equipment when power has been applied.  1. Place multimeter leads with clips on connectors J10 and J11 of the stacker backplane.  2. A reading of 5.1 VDC should be present, if not adjust the power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC).					
STACKER MODULES: GATE SOLENOID PUSHERS	36.	Be cautious when working around or on equipment when power has been applied.  1. Main Menu, select following maintenance test: Maintenance-Systems Tests-Stacker Module Test-Gate Activation Test.  2. At the Gate Activation Test screen select the following: Select Stackers-All, Select Gates-All, and Select Action-Sequence.  NOTE  On machines with the solenoid pusher assemblies activated identify visually inoperative solenoid pusher assemblies and gates by viewing each stacker module one by one.  On machines with the solenoid pusher assemblies de-activated per MMO-035-04, ensure the solenoid pusher assemblies do not activate during this test sequence.  3. One stacker module will be tested at a time, energizing every gate and solenoid pusher assembly sequentially, repeatedly. By responding to the testing screen on the DBCS monitor and answering Yes or No,	20	9		14300	

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Matatana a Obaataliat	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	IUMBI	ER	TYPE
Maintenance Checklist	CO	DE				ACR(	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equ	ipmer	nt Mo	del				Βι	ulletir	Filer	name		Occur	rence		
Delivery Bar Code Sorter			DE	BCS/	OSS	3			m	m12	078ad			E	CBM	

Delivery Bar C	ode Sc	rter	DBCS/OSS	mm1	2078a	ı		ECRM	
Part or Component	Item No	(	Task Statement and Instruction Comply with all current safety precautior	ns)	Est. Time	Min. Skill		Threshold	
					Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		mod	test will move to the next ule. The testing will be identical ker module.						
		4. Type	e T to begin-Start <u>T</u> est.						
		each are sole enst the s verif each Gree blink Gen	Ty gate and pusher solenoids are a stacker where the pusher assactivated. On machines who activated. On machines who are the gate is operating proposolenoid is not activating. At the gate and pusher that is a sen LED is for power and ambits when a solenoid is to be entered a work order to replems identified during this test.	semblies vith the ctivated, erly and his time, ating for ctivated. per LED nergized.					
		corre infor push	mation on machines that han a mation on machines that hand a matter assemblies deactivated.	dditional					
5500/000	0.7		maintenance menu.						
DBCS/OSS VALIDATION: MACHINE VALIDATION	37.	Be ca equip applie mach to pre and to in mo  1. Turn opera  2. Start	warning around of ment when power has ed. This task requires that ine be running. Take precaute event hair, clothing, jewelry, the est equipment from being caving parts.  Maintenance Mode key switch of ator control panel to MAINT positimachine. Verify when START support in the control panel to MAINT positimachine.	or on been the tions ools, aught on tion.	4	9		3	
		sorte warni secoi contii	sed, start-up warning indicators a r flash amber. At same time, star ing horns sound. Horns sound fo nds and go off, while warning ind nue to flash for a total of 10 secon wisual and audible shock of man	rt-up or 5 dicators onds.					
		verify tracki	visual and audible check of mac there are no problems with belt ing, bearing noise, inappropriate activity, or any indications of imp	bin					

U.S. Postal Service								IDEN	TIFI	CATI	ON					
Maintenance Checklist	CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
	0	3	D	В	С	S					C	I	0	0	1	М
Equipment Nomenclature	Equipment Model							Bull	letin	Filer	name	C	)ccurr	ence		
Delivery Bar Code Sorter	DBCS/OSS						mr	n12	078ad			E	CBM			

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Thresholds	6
Component	NO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		or existing machine problems.			1		1
		Proceed to end stacker and press     Emergency Stop button. Verify machine stops.					
		5. If machine fails to stop, notify supervisor. Refer to the most recent Maintenance Management Order, currently MMO-002-03, concerning failure to stop. www.mtsc.usps.gov/pdf/mmo/2003/mmo002 03.pdf					
		De-activate E-Stop and turn Maintenance     Mode switch back to NORMAL on operator     control panel.					
DBCS/OSS VALIDATION: LABEL PRINTER	38.	Check label printer. Verify label quality.  WARNING	2	7		3	
		Be cautious when working around or on equipment when power has been applied.					
		On label printer, press LINE FEED button one time. Label printer will print out test label.					
		Verify test label has good quality print (not blurred) and is readable to human eye.					
		3. If the quality of the print is unacceptable, write a work order to troubleshoot and/or clean the thermal head using cleaning kit (NSN 7930-07-000-1593).					
DBCS/OSS VALIDATION:	39.	Run WFOV test deck (NSN 3915-06-000-8292) as follows:	9	9		3	
WFOV TEST DECK		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.					
		Set up machine in DBCS Mode.					

U.S. Postal Service								IDE	NTIF	ICAT	ION					
Maintenance Checklist	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	UMBI	ΞR	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CC	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equipment Model							Bı	ulletir	Filer	name	(	Occur	rence		
Delivery Bar Code Sorter	ar Code Sorter DBCS/OSS							m	m12	078ad			E	CBM		

Delivery Bar Code S	orte	ſ	DBCS/OSS	mm 1.	2078a	J .		FCRM	
Part or Iten Component No		(	Task Statement and Instruction Comply with all current safety precaution	ıs)	Est. Time	Min. Skill		Thresholds	6
Component		· ·	osinpy with all our one outer, presudation		Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
	2.	Load	Run information.						
	3.	Enter	Operation number (750).						
	4.	Selec	ct F2 to accept.						
	5.	Load	sort plan WFOV_TDK.EBF						
	6.	Selec	t "Start Mail Processing".						
	7.	Selec	ct Display ZIP/Pkts and On Line I	Display.					
	8.	Ensur or gr check may	machine and process WFOV te re WFOV has a GAR that equi- eater. If the GAR is lower that read reject bins for any test can have unreadable bar conssary, perform a WFOV auto-cali	als 99% an 99%, ards that des. If					
	9.		the Certified Mail portion of sorts properly.	the test					
	10.	result	additional time is needed to cor discrepancies and/or GAR ding auto-calibration, initiate	issues,					
DBCS/OSS 40. VALIDATION: ICS STRESS DECK	ICS	S Read	der validation.  WARNING		5	9		3	
		equip applie machi to pre and to	utious when working around oment when power has led. This task requires that ine be running. Take precautevent hair, clothing, jewelry, to est equipment from being caving parts.	been the tions ools,					
	Ve	rify the	ICS-3 Reader as follows:						
	1.		nachine up to run in DBCS mode olan ICSTSTI.ebf.	, use					
	2.		ON LINE MAIL PROCESSING s t Display ZIPs/Pkts.	screen,					
	3.		Select Display Option screen, so ine Display.	elect					
	4.		machine and run the stress deck -10-000-6361.	k, NSN					
	5.	At or	n line display screen, verify tha	at ICS-3					

U.S. Postal Service								IDEN	ITIFI	CATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM					ASS DE	N	UMBE	ΞR	TYPE
	0	3	D	В	O	S					C	I	0	0	1	М
Equipment Nomenclature	Equipment Model								lletin	Filer	name	(	Occurr	ence		
Delivery Bar Code Sorter	DBCS/OSS						mr	m12	078ad			ΕŒ	CBM			

		BB00/000 IIIIII					-
Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		Threshold	S
Component	NO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Reader detected all ID Tags present and they read same.  6. Stop machine.  7. Retrieve and verify cards sorted correctly. Refer to the most recent MMO, currently, MMO-144-15, dealing with sorting problems. http://mtsc.usps.gov/bulletins.cfm  8. Notify supervisor of any problems found.					
DBCS/OSS VALIDATION: IJP	41.	<ol> <li>IJP Test.</li> <li>From Main Menu select <maintenance>, then <system tests="">, and then <ink jet="" printer="" test="">.</ink></system></maintenance></li> <li>Spray five blank cards (NSN 5220-03-000-5975) with an A-field bar code.</li> <li>Check the bar codes for location and quality.</li> <li>NOTE</li> <li>Right edge of letter to left framing bar should be 4 1/8" to 4 1/4". Bottom of bars should be even and 1/4" ± 1/16" above bottom edge.</li> <li>Write a work order if adjustments are needed.</li> </ol>	3	10		3	
DBCS/OSS VALIDATION: UAA INTERCEPT BARCODE	42.	Verify that the OCR engine in the DBCS mode can intercept UAA mail.  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.  Using the Xanadu Test Deck, NSN 9310-08-000-3864, P/N 66.1026.034-00, do the following from the Main Menu:  Select Mode Select.  Select DBCS.	9	9		1100	

U.S. Postal Service								IDE	NTIF	ICATI	ON					
	WC	RK			Е	QUIF	MENT	•			CLA	ASS	N	UMBI	ΞR	TYPE
Maintenance Checklist	CO	DE				ACRO	MYNC				CO	DE				
	0	3	D	В	С	S					С	ı	0	0	1	М
Equipment Nomenclature	Equipment Model								ulletir	Filer	name		Occur	rence		
Delivery Bar Code Sorter	DBCS/OSS							m	m12	078ad			E	CBM		

Part or	Part or Item Task Statement and Instruction Component No (Comply with all current safety precautions)		Est. Time	Min. Skill		Threshold	s
Component	INO	(Comply with all current salety precautions)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		3. Load Run Information.					
		4. Enter Operation Number (750).					
		5. Select F2 to accept.					
		<ol> <li>Load a sortplan that has a confirmed UAA pocket assigned (ParsSpecial Pockets.ebf assigns pocket 39 for UAA).</li> </ol>					
		7. Start mail processing and run UAA test deck.					
		8. Print or view the End of Run report.					
		<ol> <li>Calculate the intercept rate (# confirmed UAA test pieces divided by the total # of test pieces fed, multiplied by 100).</li> </ol>					
		10. Verify that at least 90% of the UAA test deck was intercepted.					
		11. Log off the system computer.					
FINAL CLEAN UP	43.	Clean up.	2	ALL			
		Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to supervisor.					

## **ATTACHMENT 3**

## **MASTER CHECKLIST**

09-DBCS-CI-001-M

**Operational Maintenance** 

Time Total: 52 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	1	3	3
8	2	3	6
9	1	3	3
10	2	3	6
11	1	3	3
12	5	3	15
13	2	1	2
_	_	Total OPM Time	52

Maintenance Technical Support Center

U.S. Postal Service								IDE	NTIF	ICATI	ON					
	WC	RK			Е	QUIF	MEN <sup>-</sup>	Γ			CLA	ASS	N	UMBE	R	TYPE
Maintenance Checklist	CO	DE			- 1	ACRO	MYM				CO	DE				
	0	9	D	В	С	S					С	I	0	0	1	M
Equipment Nomenclature	Equipment Model									Filer	name	С	ccurr	ence		
Delivery Bar Code Sorter	DBCS/OSS						m	m12	078ad			To	ourly			

Part or	Item	Task Statement and Instruction	Est.	Min.		Thresholds	s				
Component	No	(Comply with all current safety precautions)	Time	Skill							
			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.				
SAFETY STATEMENT		COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shutdown and lockout this machine. Open equipment and inspect dust conditions. Check for suspicious dust or unusual debris. If any unusual substance is found notify supervisor prior to proceeding with any further action on the equipment.	1	All			Т				
		THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED. When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner or a damp rag must be used in place of compressed or blown air. A lint-free cloth or brush may be used on optical equipment only when other cleaning methods cannot be used. Report safety deficiencies to your supervisor immediately upon detection.									
		WARNING FOR EWP/PPE: Steps contained in this bulletin may require the use of Personal Protective Equipment (PPE). Refer to the current Electrical Work Plan (EWP) MMO for appropriate PPE requirements.									
DBCS/OSS OPM: MACHINE LOGBOOK		At the beginning of the operation examine machine log.  WARNING	1	9			Т				
		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.									
		NOTE									
		While performing listed operational maintenance tasks, be alert for unusual sounds, odors, or other indications of potential failure conditions in the machine.									

U.S. Postal Service								IDE	NTIF	ICATI	ON					
Maintenance Checklist	WC CO	RK DE			_		MENT NYM	•				ASS DE	N	UMBE	ER	TYPE
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Equipment Nomenclature Delivery Bar Code Sorter	Equipment Model DBCS/OSS								ulletir m		name 078ad		Occurr		ourly	

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill		S	
			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.
		Examine log and document any unresolved				1	
		problems from the previous tour.					
		NOTE					
		Operational checks must be made with machine processing mail in a normal operating mode.					
DBCS/OSS OPM: MACHINE SAFETY	3.	Every two hours observe warning horn and beacons.	1	9			Т
		Watch for proper operation of warning horn and beacons on machine start-ups.					
DBCS/OSS OPM:	4.	Every two hours check lamps.	1	9			Т
MACHINE INDICATOR LAMPS		Watch for proper functionality of indicator lamps used during normal machine operations. Correct deficiencies as soon as practical.					
DBCS/OSS OPM: OPERATORS	5.	Every two hours observe feeder and check with Operator.	1	9			Т
		Observe the Feeder operation and inquire if operators are having excessive processing problems. Investigate as necessary. Initiate corrective action as appropriate.					
DBCS/OSS OPM: VIDEO DISPLAY	6.	Every two hours check mail processing screen.	1	9			Т
TERMINAL WFOV		Check current Accept Rate Value on the GUI to ensure the sort plan, operating mode, and Accept Rate is correct for the mail being processed in accordance with the following:					
		a. Operation 918 and 919 - 99.1% GAR					
		b. All other Operations 98.8% GAR					
		2. If MAR or GAR is below acceptable values:					
		a. Check for degraded image and/or dust/debris accumulations on WFOV faceplate by observing the thumbnail image on the upper left on the GUI.					
		b. If the image is degraded or if problems are noted take appropriate corrective action.					

Maintenance Technical Support Center

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	WC CO	RK DE			_		MENT NYM	•				ASS DE	NUMBER			TYPE
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Equipment Nomenclature Delivery Bar Code Sorter	Equipment Model DBCS/OSS					Bulletin Filename mm12078ad					Occurr					

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Thresholds				
			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.		
DBCS/OSS OPM: INK JET PRINTER		Every two hours check for dirt/ink accumulations.  Check POSTNET ink jet printer to ensure there is	1	9			Т		
		no build-up of foreign material or accumulation of ink at print head. If it appears cleaning is necessary, generate a work order, and ensure all EWP/PPE policies are adhered to before starting that task.							
DBCS/OSS OPM: OVERFLOW	8.	Every two hours check mail in the Overflow/Reject Stacker.	2	9			Т		
STACKER		Check type of mail present in overflow stacker to determine which area(s) of the machine might be malfunctioning. Check for indications of double feeds, one particular code, a single gate, or mail path blockage problem. Document any problems found and if needed write a work order.							
DBCS/OSS OPM: REJECT	9.	Every two hours check reject stacker for:	1	9			Т		
STACKER(S)		Check for print quality of POSTNET and ID Tag bar codes as well as quality of address in the address block. Are bar codes smudged or out of tolerance? Generate a work order to correct any abnormalities found and ensure all EWP/PPE policies are adhered to before starting that task.							
DBCS/OSS OPM: SORTING	10.	Every two hours check for missorts.	2	9			Т		
STACKERS		Take a sample from at least 5 stackers and verify the address block matches the scheme for that pocket. Verify mail pieces enter stacker in a uniform manner. Document any problems found and if needed write a work order.							
DBCS/OSS OPM: READER, ICS-3		Every two hours examine the Message Relay Log by pressing "alt-tab" on the host VDT GUI for excessive ID TAG ERROR messages and if needed do the following:	1	9			Т		
		<ol> <li>Check ICS-3 ID tag reader exterior for accumulated dust, dirt and debris or loose/worn belts, paying particular attention to the aperture and to the raised portion of the faceplate.</li> </ol>							
		Document any problems found and if needed write a work order.							

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	W C	RK DE	EQUIPMENT ACRONYM								C C	NUMBER			TYPE	
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Equipment Nomenclature Delivery Bar Code Sorter	Equipment Model DBCS/OSS						Bulletin Filename mm12078ad					Occurrence Tourly				

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Thresholds				
Sampanani		(comply man all canonicality)	Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.		
DBCS/OSS OPM: ACE/MKAT LAPTOP COMPUTER		Every 2 hours check all performance indicators displayed on the MPEWatch Realtime Maintenance View Screen including the following items:	5	9			Т		
		Key Performance Indicators (KPI) report.							
		NOTE							
		Access to KPI can be done by clicking on the hyperlink located in the column titled "KPI%".							
		2. Unplanned Events.							
		3. DPS Information.							
		<ol> <li>Take appropriate action to investigate and correct any abnormalities detected in viewing MPEWatch. Generate a work order for further maintenance actions if required.</li> </ol>							
DBCS/OSS OPM: ADMINISTRATIVE		At the end of the operation tour, compile the following information:	2	9			Т		
		Route sheet information.							
		Any work orders generated.							
		Make entries in Machine Logbook of any discrepancies found during the mail run.							
		Turn this information into Maintenance     Supervision. Brief personnel coming on duty.							