## MAINTENANCE TECHNICAL SUPPORT CENTER HEADQUARTERS MAINTENANCE OPERATIONS UNITED STATES POSTAL SERVICE Maintenance Management Order

# **SUBJECT:** Tray Sorting Machine Novasort Preventive Maintenance

DATE: December 18, 2013

**NO:** MMO-112-13

FILE CODE: TM

**TO:** Tray Sorting Machine Novasort Sites

pmur:mm13052ab

This Maintenance Management Order (MMO) provides Preventive Maintenance Guidelines for the Tray Sorting Machine Novasort System (TSM). This bulletin applies to Acronym TSM, Class Code CA.

The workhours indicated in the workload estimate (Attachment 1) reflect the *maximum* annual workhours required to maintain each system. 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.

### 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.

#### 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.

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

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Robert E. Albert Manager Maintenance Technical Support Center HQ Maintenance Operations

Attachments 1. Summary of Workload Estimate

2. Master Checklist: 03-TSM-CA-001-M: Quarterly PM

#### ATTACHMENT 1

#### SUMMARY

#### WORKLOAD ESTIMATE

FOR

#### **TSM SYSTEM**

### SUMMARY WORKLOAD ESTIMATE FOR TSM

	Routine Servicing (Hrs/Yr)	Repair∗ (Hrs/yr.)	Total Servicing & Repair Time (Hrs/Yr)	Nonproductive Time** (Hrs/Yr)	Total Servicing Per Unit (Hrs/Yr)
Quarterly	1.93	0.77	2.70	0.27	2.97

#### NOTES

\*Repair estimates based on 40% of servicing.

\*\*Based on 10% of total servicing and repair.

#### NOTE

The time shown does not allow for multiple assemblies on any equipment. Should multiple assemblies exist, the time must be modified at the local level to account for those occurrences. Other unique site conditions that require additional time are also to be addressed at the local level.

#### ATTACHMENT 2

#### **TSM MASTER CHECKLIST**

#### 03-TSM-CA-001-M

Quarterly Time Total: 29 minutes

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### Maintenance Technical Support Center

U.S. Postal Service	IDENTIFICATION															
Maintenance Checklist	WORK EQUIPMEN CODE ACRONYN						-				ASS DE	NUMBER			TYPE	
	0	3	Т	S	М						С	Α	0	0	1	М
Equipment Nomenclature Tray Sorting Machine Novasort	Equipment Model					В	Bulletin Filename mm13052ab				Occurrence Quarterly					
Tray Sorting Machine Novasort									[]]	1113	uszab			Qui	anter	ly

Part or Component	Item No	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time	Min. Skill	Thresholds				
Component			Req (min)	Lev	Run Hours	Pieces Fed (000)	Freq.		

SAFETY STATEMENT	1. COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and apply lockouts when required by this instruction. Refer to current local lockout procedures to properly shut down and lock out 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.	3	All		
	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.				
	2. Lock Out Power. Place appropriate PLC control panel "AUTO/MANUAL" switch in the "MANUAL" position. Lock out electrical power by placing the PLC disconnect lever in the "OFF" position and installing a LOCKOUT/TAGOUT device.	2	All		
DISCHARGE CHUTE	<ol> <li>Check Discharge Chute.</li> <li>Visually check for any damage (large gouges or cracking) to the fiberglass chute.</li> <li>Remove foreign objects (i.e., tape, labels, string, rubber bands, etc.) from the interior.</li> <li>Report discrepancies to supervisor.</li> </ol>	3	7		

### Maintenance Technical Support Center

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U.S. Postal Service			IDENTIFICA															
Maintenance	Check	list	CODE ACRONYM C							.ASS ODE	NU	TYPE						
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Part or	Item			Statemen				,		Est.	Min.		Threshold	s				
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		infrar	ed emitte	er for ph	iysica	l dar	nage.											
		•	ess. If lo	-	ghten	the		ctions	for s.									
		3. Chec tightn	iess.	electr			nectic	ons	for									
		4. Repo	rt discre	pancies	to su	perv	isor.											
	5.	Clean Ph Emitters	, and	Infra	red	4	7											
		1. Wipe	the pho					w wit	th a									
		2. Wipe						rem	ove									
		3. Wipe	and dirt. the emi ve dust a		dow \	with	a dam	ıp raç	g to									
DISCHARGE CHUTE	6.	Clean Dis	scharge			_				5	7							
				WAR	NING													
			re the c															
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		equip	ment.					<u> </u>										

#### MMO-112-13 Maintenance Technical Support Center **IDENTIFICATION** U.S. Postal Service WORK EQUIPMENT CLASS NUMBER TYPE Maintenance Checklist CODE ACRONYM CODE S 0 3 Т Μ С А 0 0 1 М Equipment Nomenclature Equipment Model **Bulletin Filename** Occurrence Tray Sorting Machine Novasort mm13052ab Quarterly Part or Task Statement and Instruction Min. Thresholds Item Est. Component No (Comply with all current safety precautions) Time Skill Run Pieces Freq. Req Lev Hours Fed (min) (000)WARNING Discard or dispose of chemical soaked materials according to MSDS and in accordance with local procedures. WARNING Do not ride in the chute. Personal injury could result from riding in chute. 1. Remove loose material from the chute. 2. Remove surface contamination usina Odorless Mineral Spirits (or equivalent) on the inside surface of the chute. Distribute liquid using clean dry cloth, ensure entire inside surface is wiped. Contaminants being removed during this process may be present on the cloth. Continue to wipe inside surface of the chute until dirty residue is no longer present on the cloth being used to distribute the Mineral Spirits. The inside surface shall then be wiped again with a dry clean cloth to remove all excess Mineral Spirits that has accumulated on the surface. 3. Perform a complete check of the inside surface of the chute. Materials such as grease or oil may be difficult to see on the surface. This problem can be compounded by lighting arrangements, so it is critical that the surface be looked at from several angles. If any material is found at this check, repeat previous step until material is completely removed from the chute surface. 4. Treat surface using Pledge Furniture Polish (or equivalent) on the inside surface of the Distribute polish using a clean dry chute. cloth. Do not spray the polish directly onto the inside surface of the chute. Spray onto the cloth and wipe the chute with the cloth. Ensure the entire inside surface is wiped. Wipe the inside surface again with a dry clean cloth to remove all access polish that may have accumulated on the surface.

### Maintenance Technical Support Center

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U.S. Postal Service														
Maintenance	WORK EQUIPMENT CODE ACRONYM						C	LASS ODE	NUMBER			TYPE		
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		5. Repor	rt discre	oancies	to su	ıpervisor	· ·							
DISCHARGE	7.	Test Disc	harge C	hute.					3	7	╂───	+		+
CHUTE		Test the c slide smo	est the chute with 5 trays of mail. Ensure trays de smoothly and do not hang up. Report screpancies to supervisor.											
		Be cau equipr applie	ment v		orkin	ig aroun er has		or on been						
	8.	Restore E	Equipme	ent To S	Servi	ce.			2	All	†	+		-
		Restore LOCKOU disconnec PLC contr "AUTO" p	T/TAGO ct lever i rol panel	OUT devi in the "(	ice ai DN" p	nd placir position.	ng t P	the PLC Place the						
CLEAN UP	9.	Clean Up Ensure a removed deficiencie	all tools from t	the wo	rk a	area.		etc., are eport all	3	All				
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