

MAINTENANCE TECHNICAL SUPPORT CENTER
HEADQUARTERS MAINTENANCE OPERATIONS
UNITED STATES POSTAL SERVICE



Maintenance Management Order

SUBJECT: Preventive Maintenance Guidelines for Mosca Bander

DATE: May 17, 2006

NO: MMO-054-06

TO: Maintenance Capable Offices

FILE CODE: F7

same: mm06074aa

Online Change Record		
Change #	Date	Description of Change
3	08/23/2021	In Attachment 2, Item #3 after Step 4, added new a Step 5. In Attachment 3, Item #3 edited Step 4.
2	7/8/2021	Corrected skill levels in Att. 2 items 3 - 5; Att. 3 items 3 - 5; Att. 4 items 3 - 8 to comply with current requirements.
1	2/21/2012	Item 7 of the Monthly checklist, Att. 4, has been updated to include the Fahrenheit temperature.

This Maintenance Management Order (MMO) **supersedes** **MMO-034-03**. This MMO provides Preventive Maintenance (PM) guidelines for the Mosca Bander with updated minimum skill levels.

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

The work hours represented in this MMO reflect the maximum work hours required to maintain the equipment. Given local conditions, management may modify task frequencies.

WARNING

Various products which require 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 by all employees. When reordering such a product, it is suggested that a current MSDS be requested. Refer to MSDS for appropriate personal protective equipment.

WARNING

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 only on optical equipment when other cleaning methods can not be used.

Maintenance Managers are to use these Preventive Maintenance guidelines when preparing the route sheets for local maintenance personnel.

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

Earl J. Jones
Manager
Maintenance Technical Support Center
Maintenance Policies and Programs

- Attachments:
1. Summary Workload Estimate
 2. Mosca Bander Master Checklist: 03-ASD-CA-001-M: Daily
 3. Mosca Bander Master Checklist: 03-ASD-CA-002-M: Weekly
 4. Mosca Bander Master Checklist: 03-ASD-CA-003-M: Monthly
 5. Mosca Bander Master Checklist: 03-ASD-CA-004-M: Annual

ATTACHMENT 1
SUMMARY
WORKLOAD ESTIMATE
FOR
MOSCA BANDER

**SUMMARY
WORKLOAD ESTIMATE
FOR
MOSCA BANDER**

Days Per Week	Routine Servicing (hrs/yr)	Repair* (hrs/yr)	Total Servicing & Repair Time (hrs/yr)	Nonproductive Time ** (hrs/yr)	Total Servicing Per Machine (hrs/yr)
7 Day	198	20	218	21.8	239.8
6 Day	177	18	195	19.5	214.5
5 Day	156	16	172	17.2	189.2

* Repair estimates based on 10% of servicing.

** Based on 10% of servicing and repair.

PM CHECKLIST TIME SUMMARY

Checklist	Checklist Times (per year)
03-ASD-CA-001-M (Daily)	8760 minutes for 7 day/week 7512 minutes for 6 day/week 6264 minutes for 5 day/week
03-ASD-CA-002-M (Weekly)	2288 minutes
03-ASD-CA-003-M (Monthly)	624 minutes
03-ASD-CA-004-M (Annual)	194 minutes

ATTACHMENT 2

MOSCA BANDER

03-ASD-CA-001-M

DAILY

Time Totals: 24 Minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION										
	Work Code		Equipment Acronym			Class Code		Number		Type	
	0	3	A	S	D	C	A	0	0	1	M
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency DAILY			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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SAFETY STATEMENT	1.	<p>COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and activate lockouts as appropriate while working on this equipment. 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. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</p> <p>When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp cloth, lint-free cloth or brush must be used in place of compressed or blown air. Report safety deficiencies to your supervisor immediately upon detection.</p>	5 MIN	All
MACHINE	2.	<p>Power down and lockout power. Power down the machine and lockout its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> WARNING </div> <p>When working around heater, allow 20 minutes of cooling time for hot knife.</p>	2 MIN	All
SYSTEM	3.	<p>Check and clean strapper.</p> <ol style="list-style-type: none"> 1. Remove the center cover. 2. Check proximity sensor mounting space and clean area. 3. Clean accumulator, tabletop, knife bar, heater, and slide plate. 4. Clean the complete machine (inside and out) with a stiff brush and a HEPA filter vacuum cleaner. 5. Install center cover. 6. Replace cover. 	10 MIN	9
MACHINE	4.	<p>Restore equipment to service. Restore equipment to service as prescribed by the current local procedure</p>	2 MIN	7

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym				Class Code		Number			Type
	0	3	A	S	D		C	A	0	0	1	M
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander				Bulletin Filename MM06074AA			Frequency DAILY			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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		providing lockout/restore procedures.		
SYSTEM	5.	Check the strapping action of the Mosca bander. Strap a mail tray and check for proper strap weld, tension, and cutoff.	2 MIN	9
CLEAN UP	6.	Clean up. Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.	3 MIN	All

U.S. Postal Service		IDENTIFICATION										
Maintenance Checklist		Work Code	Equipment Acronym				Class Code		Number			Type
		0 3	A S D			C A	0 0 1	M				
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency DAILY				
Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)							Est. Time Req'd	Min. Skill Level		

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ATTACHMENT 3

MOSCA BANDER

03-ASD-CA-002-M

WEEKLY

Time Totals: 44 Minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym			Class Code		Number			Type	
	0	3	A	S	D	C	A	0	0	2	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency WEEKLY				

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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SAFETY STATEMENT	1.	<p>COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and activate lockouts as appropriate while working on this equipment. 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. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</p> <p>When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp cloth, lint-free cloth or brush must be used in place of compressed or blown air. Report safety deficiencies to your supervisor immediately upon detection.</p>	5 MIN	All
MACHINE	2.	<p>Power down and lockout power. Power down the machine and lockout its electrical power as prescribed by current local lockout instructions providing lockout/restore procedures.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> WARNING </div> <p>When working around the heater, allow 20 minutes of cooling time for the hot knife.</p>	2 MIN	All
SYSTEM	3.	<p>Clean the strapper.</p> <ol style="list-style-type: none"> 1. Use stiff brush and HEPA filtered vacuum to thoroughly clean outside of strapper including tabletop. 2. Remove the center top cover. 3. With stiff brush and HEPA filtered vacuum, thoroughly clean and remove all debris inside bander, especially around sealer, sealing head, knife bar, heater and slide plate, feed/tension wheels, infeed wheels, and accumulator box (complete material path). 4. Install center top cover and re-thread strap if removed. 	30 MIN	9

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym				Class Code		Number			Type
	0	3	A	S	D	C	A	0	0	2	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander				Bulletin Filename MM06074AA			Frequency WEEKLY			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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MACHINE	4.	Restore equipment to service. Restore equipment to service as prescribed by the current local procedure providing lockout/restore procedures.	2 MIN	7
SYSTEM	5.	Check the strapping action of the Mosca bander. Strap a mail tray and check for proper strap weld, tension, and cutoff.	2 MIN	9
CLEAN UP	6.	Clean up. Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.	3 MIN	All

U.S. Postal Service Maintenance Checklist		IDENTIFICATION											
		Work Code		Equipment Acronym				Class Code		Number		Type	
		0	3	A	S	D	C	A	0	0	2	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander				Bulletin Filename MM06074AA		Frequency WEEKLY					
Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)							Est. Time Req'd	Min. Skill Level			

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ATTACHMENT 4

MOSCA BANDER

03-ASD-CA-003-M

MONTHLY

Time Totals: 52 Minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION										
	Work Code		Equipment Acronym			Class Code		Number			Type
	0	3	A	S	D	C	A	0	0	3	M
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency MONTHLY			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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SAFETY STATEMENT	1.	<p>COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and activate lockouts as appropriate while working on this equipment. 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.</p> <p>THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</p> <p>When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp cloth, lint-free cloth, or brush must be used in place of compressed or blown air. Report safety deficiencies to your supervisor immediately upon detection.</p>	5 MIN	All
MACHINE	2.	<p>Power down and lockout power. Power down the machine and lockout its electrical power as prescribed by current local lockout instructions providing lockout/restore procedures.</p>	2 MIN	All
		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">WARNING</div> <p>When working around heater, allow 20 minutes of cooling time for the hot knife.</p>		
SYSTEM	3.	<p>Clean strapper.</p> <ol style="list-style-type: none"> 1. Clean complete machine (inside and out) with a stiff brush and a HEPA filter vacuum cleaner. 2. Clean the heater exhaust fan. 3. Replace cover. 	15 MIN	9
	4.	<p>Check strapper.</p> <ol style="list-style-type: none"> 1. Check all electrical connections. 2. Check all electrical plug connections. 3. Check the plug-in relays for proper seating. 4. Check all cables for damage. 5. Replace panel/cover, if removed. 	15 MIN	9

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym				Class Code		Number			Type
	0	3	A	S	D	C	A	0	0	3	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency MONTHLY				

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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LUBRICATION	5.	Lubricate the strapper. <div style="border: 1px solid black; padding: 5px; text-align: center; width: fit-content; margin: 0 auto;"> CAUTION </div> <p style="text-align: center;">Do not get any lubricant on the slip clutch.</p> <ol style="list-style-type: none"> 1. Lubricate sealer (bevel gears and slide plates) and conveyor shafts with light tar-free oil. 2. Check the sprockets and chain (lubricate with a light coat of grease if necessary). 3. Ensure chain tension is correct, adjust if necessary. 4. Replace panel and cover. 	5 MIN	9
MACHINE	6.	Restore equipment to service. Restore equipment to service as prescribed by the current local procedure providing lockout/restore procedures.	2 MIN	7
SYSTEM	7.	Check the heater temperature. Ensure that it is set to 280 degrees Centigrade (536 degrees Fahrenheit), adjust if necessary.	3 MIN	9
	8.	Check the strapping action of Mosca bander. Strap a mail tray and check for proper tension, strap weld, and cutoff.	2 MIN	9
CLEAN UP	9.	Clean up. Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.	3 MIN	All

U.S. Postal Service Maintenance Checklist		IDENTIFICATION											
		Work Code		Equipment Acronym				Class Code		Number		Type	
		0	3	A	S	D	C	A	0	0	3	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander				Bulletin Filename MM06074AA		Frequency MONTHLY					
Part or Component		Item No.		Task Statement and Instruction (Comply with all current safety precautions)						Est. Time Req'd	Min. Skill Level		

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ATTACHMENT 5

MOSCA BANDER

03-ASD-CA-004-M

ANNUAL

Time Totals: 194 Minutes

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym				Class Code		Number			Type
	0	3	A	S	D	C	A	0	0	4	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency ANNUAL				

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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SAFETY STATEMENT	1.	<p>COMPLY WITH ALL SAFETY PRECAUTIONS. Disconnect power and activate lockouts as appropriate while working on this equipment. 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. THE USE OF COMPRESSED OR BLOWN AIR IS PROHIBITED.</p> <p>When cleaning is required, an alternative cleaning method such as a HEPA filtered vacuum cleaner, a damp cloth, lint-free cloth or brush must be used in place of compressed or blown air. Report safety deficiencies to your supervisor immediately upon detection.</p>	5 MIN	All
MACHINE	2.	<p>Power down and lockout power. Power down the machine and lockout its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures.</p>	2 MIN	All
		<div style="border: 1px solid black; padding: 5px; display: inline-block;">WARNING</div> <p>When working around heater, allow 20 minutes of cooling time for the hot knife.</p>		
SEALER	3.	<p>Sealer maintenance.</p> <ol style="list-style-type: none"> 1. Remove sealer from machine and clean out. To remove sealer, take off chain, remove proximity sensor bracket, disconnect exhaust fan wires, and remove three bolts (NT105) on bottom of sealer base plate. When reinstalling proximity sensor bracket, ensure sensors do not touch sensor flags. 2. Check all guides and grippers for wear, and ensure they move freely. 	180 MIN	9

U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym				Class Code		Number			Type
	0	3	A	S	D	C	A	0	0	4	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander				Bulletin Filename MM06074AA			Frequency ANNUAL			

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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		<div style="border: 2px solid black; padding: 5px; display: inline-block;">WARNING</div> <p>Exercise care around knife cutting edge to prevent injuries.</p> <ol style="list-style-type: none"> 3. Check knife cutting edge. Ensure knife-gripper and knife make a clean cut. Make adjustments by moving the support bar. See illustrations in MOSCA COTS manual page 5-12. 4. Check cam bearings and can followers. Ensure they are tight in their seating and lubricated. 5. Check all bushings and shafts for play. Replace and ream out bushings if necessary. Shafts must glide through bushings, but not have any play. 6. Check miter gears for wear on teeth and in keyway. 7. Check all springs. Replace all weak springs. Replace all compression springs P/N NT665. 8. Check the strap finger (P/N 2415-013000-11) for wear on the tip. Adjust the hex screw on the knife-gripper lever (P/N 2415-015100-00), if the strap finger contacts the knife-gripper at cross-over. 9. Check sensor flags. Ensure they are fastened properly. 10. Check slide plate. Ensure it moves freely and does not bind. Ensure heater wires do not touch slide plate. 11. Check pressure levers (P/N 2410-015000-15). Ensure they are not bent or cracked. 12. Check the heater mounting position. Ensure heater tongue does not stick out too far from slide plate and the strap finger does not touch heater at any time. Adjust heater so it does not butt against strap finger or left gripper when knife comes up to cut and weld strap. Adjust heater so the distance from top of heater tongue to the top of slide plate is 8 mm. 13. Install the sealer back into MOSCA Bander. 		
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U.S. Postal Service Maintenance Checklist	IDENTIFICATION											
	Work Code		Equipment Acronym				Class Code		Number			Type
	0	3	A	S	D	C	A	0	0	4	M	
Equipment Nomenclature Mosca Bander		Equipment Model USP 1-2 TRAYMASTER Bander			Bulletin Filename MM06074AA			Frequency ANNUAL				

Part or Component	Item No.	Task Statement and Instruction (Comply with all current safety precautions)	Est. Time Req'd	Min. Skill Level
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		14. Replace cover.		
MACHINE	4.	Restore equipment to service. Restore equipment to service as prescribed by the current local procedure providing lockout/restore procedures.	2 MIN	7
	5.	Check the strapping action of the Mosca bander. Strap a mail tray and check for proper strap weld, tension, and cutoff.	2 MIN	9
CLEAN UP	6.	Clean up. Ensure all tools, lubricants, rags, etc., are removed from the work area. Report all deficiencies to your supervisor.	3 MIN	All