MAINTENANCE TECHNICAL SUPPORT CENTER / MAINTENANCE POLICIES & PROGRAMS ENGINEERING / UNITED STATES POSTAL SERVICE

maintenance management order UNITED STATES POSTAL SERVICETM



SUBJECT: PM Guidelines for Parcel Sorter (Carousel)

with Belt Drive Unit

NO: MMO-131-98

DATE:

TO: Bulk Mail Centers FILE CODE: Y

dewa:MM9584AD

October 30, 1998

| | Online Change Record | | | | | | | | | |
|-------------------------------------|----------------------|--|--|--|--|--|--|--|--|--|
| Change # Date Description of Change | | | | | | | | | | |
| 2 | 4/26/2022 | Attachment 2, corrected skill level 4, no longer in use, to level 7. | | | | | | | | |
| 1 | 2/17/2021 | Attachment 2, Item 11, Added new Step 6 to replace latch pins. | | | | | | | | |
| | | Attachment 2, Item 20, Added sentence to replace covers. | | | | | | | | |
| | | Attachment 2, Item 21, Added new Step 5 to replace guard. | | | | | | | | |
| | | Attachment 2, Item 25, Added new Step 4 to replace cover. | | | | | | | | |

This Maintenance Management Order (MMO) provides Preventive Maintenance (PM) guidelines for Parcel Sorters (Carousel) that have a Belt Drive Unit.

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.

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.

The attached master checklist provides tasks to be performed at periodic intervals (as noted in the frequency column), the time required per task, and the minimum skill level for each task.

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

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

Rex M. Gallaher Manager Maintenance Technical Support Center Maintenance Policies and Programs

Attachments: 1. Summary of Revised Workload Estimate

2. Parcel Sorters (Carousel) with Belt Drive Unit Master Checklist

ATTACHMENT 1

-SUMMARY-

REVISED WORKLOAD ESTIMATE

FOR

PARCEL SORTER (CAROUSEL) WITH BELT DRIVE UNIT

| Routine Servicing (hrs/yr) | Repair* (hrs/yr) | Total Servicing & Repair Time (hrs/yr) | Nonproductive Time ** (hrs/yr) | Total Servicing Per Machine (hrs/yr) |
|----------------------------------|---------------------|--|--------------------------------------|--|
| 44.6 | 13.3 | 58.0 | 5.8 | 63.8 |

^{*} Repair estimates based on 30% of servicing.

TIME TOTALS

| Weekly Time Total: | 0.4 Hrs. *** |
|-------------------------|--------------|
| Monthly Time Total: | 0.9 Hrs. *** |
| Quarterly Time Total: | 2.1 Hrs. *** |
| Semi-Annual Time Total: | 1.6 Hrs. *** |
| Annual Time Total: | 0.9 Hrs. *** |

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 to be addressed at the local level.

^{**} Based on 10% of total servicing and repair.

^{***} These times are provided for data entry for the MARS System.

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ATTACHMENT 2

PARCEL SORTER (CAROUSEL) WITH BELT DRIVE UNIT MASTER CHECKLIST

03-PSM-CA-002-M

The "Part or Component" column for each step on the Master Checklist provides a "Frequency Code" designation followed by a letter or series of letters. These letters correspond to the frequency codes as published in MS-63 and specify the frequency for which that instruction (step) must be performed. These frequency codes are in compliance with NMICS superseding route structure. The possible frequencies and their codes are given in the table below:

Table 2-1. MS-63 (NMICS) Frequency-Codes

| CODE | FREQUENCY | DESCRIPTION |
|------|--------------|-------------------------------|
| Α | ANNUAL | Once every 13 APs. |
| В | BI-WEEKLY | Once every 2 weeks |
| С | BI-MONTHLY | Once every 2 APs. |
| D | DAILY | Once a day; 7 days a week. |
| E | DAILY | Once a day; 6 days a week. |
| F | DAILY | Once a day; 5 days a week. |
| G | DAILY | Once a day; 4 days a week. |
| Н | DAILY | Once a day; 3 days a week. |
| J | SEMI-WEEKLY | 2 days a week. |
| K | BI-ANNUAL | Once every 2 years. |
| L | TRI-ANNUAL | Once every 3 years. |
| M | MONTHLY | Once every AP. |
| N | QUAD-ANNUAL | Once every 4 years. |
| Р | QUINT-ANNUAL | Once every 5 years. |
| Q | QUARTERLY | 4 times every 13 APs. |
| S | SEMI-ANNUAL | Twice every 13 AP. |
| T | TOURLY | 3 times a day; 7 days a week. |
| U | TOURLY | Twice a day; 7 days a week. |
| V | TOURLY | 3 times a day; 6 days a week. |
| W | WEEKLY | Once a week. |
| Χ | TOURLY | Twice a day; 6 days a week. |
| Υ | TOURLY | 3 times a day; 5 days a week. |
| Z | TOURLY | Twice a day; 5 days a week. |

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| Maintenance Checklist | Wo Co | | Equipme Acronyr | | | | | Class Code | | Number | | Туре | |
| | 0 | 3 | Р | S | M | | | С | Α | 0 | 0 | 2 | M |
| Equipment Nomenclature | Equ | ipme | nt Mo | odel | | Bulle | etin F | ilena | me | Fre | quen | су | |
| PARCEL SORTER (CAROUSEL) | | | | | | M | M95 | 584 | AD | | | ALI | - |
| WITH BELT DRIVE UNIT | | | | | | | | | | | | | |

| <u></u> | | | | |
|--|-------------|---|-----------------------|------------------------|
| Part or Component | Item No. | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req'd | Min. Skill Level |
| SAFETY STATEMENT Frequency Code: -W-M-Q-S-A- | 1. | COMPLY WITH ALL SAFETY PRECAUTIONS Disconnect power and activate lockouts as appropriate while working on this equipment. Where air pressure is required for cleaning, use a low air pressure (30 psi or less) air source. Eye protection (goggles or face shield) must be used when utilizing compressed air for cleaning. Check to ensure all employees are clear of the machine. Report safety deficiencies to your supervisor immediately upon detection. | 3 min | All |
| SYSTEM Frequency Code: -W-M-Q-S-A- | 2. | CHECK FOR MAIL Look for loose mail while performing these activities. | 3 min | 7 |
| -SYSTEM Frequency Code: -W | 3. | START EQUIPMENT Start equipment and check warning indicators for proper operation. | 3 min | 7 |
| | | WARNING | | |
| | | Be cautious when working around or on equipment when power has been applied. | | |
| DA DRIVE Frequency Code: -W | 4. | SORTER REDUCER STRAINER. -Turn sorter reducer strainer handle one full turn in either direction to scrape strainer plates. | 3 min/ drive | 7 |
| Frequency Code: -W | 5. | CHECK REDUCER OIL PRESSURE. - Record the reducer oil pressure. If below 12 psi, report to supervisor immediately. | 3 min/ drive | 7 |

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| Maintenance Checklist | | Work Equipme Code Acronyn | | | | | Number | | | Туре | | |
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| PARCEL SORTER (CAROUSEL) WITH BELT DRIVE UNIT | | | | | | MM9 | 584 | AD | | | ALI | - |

| Part or Component | Item No. | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req'd | Min. Skill Level |
|-------------------------------|-------------|---|-----------------------|------------------------|
| DA DRIVE | 6. | CHECK MOTOR AND GEAR HOUSING Check motor and gear housing as follows: | 6 min/ | 7 |
| Frequency Code: Q-S-A- | | Feel motor and gear housings to detect vibration from bearings or gears and to detect excessive shock or vibration transmitted from the bearings and gears. | drive | |
| | | Check for excessive heat by placing back of hand on motor and reducer. | | |
| -Frequency Code: Q-S-A- | 7. | CHECK MAGNETIC BRAKE Check magnetic brake as follows: | 8 min/ drive | 7 |
| Q-G-A- | | 1. Observe effectiveness of magnetic brake. | unve | |
| | | 2. Check braking action on motor. | | |
| | | 3. Feel motor for vibration when brake operates. | | |
| | | 4. Listen for noisy brake operation. | | |
| -CA1 CHAIN/ CARRIAGE | 8. | CHECK CARRIAGES. - Check chain carriages as follows: | 0.03 min/ | 7 |
| Frequency Code: -W | | Observe carriages at the tray straightener for smooth operation and proper latching. | assy | |
| •• | | Clearance between tray and straightener should be 1/2". | | |
| Frequency Code: -W | 9. | CHECK CHAIN/CARRIAGE ASSEMBLY - Check Chain/Carriage assembly as follows: | 0.12 min/ assy | 7 |
| | | Look for proper chain lubrication. | | |

- 2. Look for cracked trays, missing bumpers, and damaged wheels.
- 3. Look for mail caught in chain.

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| Maintenance Checklist | | ork de | 1. 1 | | | | | Class Code | | Number | | | Туре |
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| WITH BELT DRIVE UNIT | | | | | | | | | | | | | |

| Part or | Item | Task Statement and Instruction | Est. | Min. |
|-----------|------|--|-------|-------|
| Component | No. | (Comply with all current safety precautions) | Time | Skill |
| · | | | Reg'd | Level |

WARNING

Be cautious when working around or on equipment when power has been applied.

| | | equipment when power has been applied. | |
|------------------------------------|-----|--|---|
| -CA1 CHAIN/ CARRIAGE (Cont.) | 10. | CLEAN CARRIAGE ASSEMBLY Clean all dirt and build-up from carriage assembly and wheels. Jog as min/assy | 7 |
| Frequency Code: Q-S-A- | | | |
| Frequency Code: Q-S-A- | 11. | CHECK CARRIAGE ASSEMBLY Check each carriage assembly as follows: 2 min/ assy | 7 |
| Q O A | | Remove latch pins and lower removable track. | |
| | | 2. Check trays for cracks and rough edges. | |
| | | Check all wheels and guide rollers and index plates for wear and damage. | |
| | | 4. Check carriage for cracks and warpage. | |
| | | 5. Check for damaged bumpers. | |
| | | 6. Replace latch pins and lower removable track. | |
| | | 7. Replace latch pins and lower removable track | |
| Frequency Code: Q-S-A- | 12. | CHECK CHAIN. - Observe chain (one complete 0.04 revolution at slow speed) around one sprocket for min/indications of frozen or worn rollers and missing cotter assy pins. | 7 |
| Frequency Code: -W | 13. | CHECK OILER OIL LEVEL Check automatic oiler 5 level. If required, add OL-3. | 7 |

unit

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| Part or Component | Item No. | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req'd | Min. Skill Level |
|--------------------------------|-------------|---|-----------------------|------------------------|
| SYSTEM | 13. | POWER DOWN AND LOCKOUT POWER Power | 3 | All |
| Frequency Code: M-Q-S-A- | | down the equipment and lockout its electrical power as prescribed by the procedures contained in, or locally developed in accordance with, the current Maintenance Management Order (MMO) providing lockout/restore procedures. | min | |
| Frequency Code: M-Q-S-A- | 14 | SERVICE OIL WIPER AND DRIP PAN Service chain oil wipers and oil drip pan as follows: | 15 min | 7 |
| W-Q-0-A- | | 1. Check chain oil wipers. | | |
| | | 2. Drain and clean oil drip pan. | | |
| Frequency Code: Q-S-A- | 16. | CHECK CHAIN TENSION. - Check the sorter chain tension using the approved method. Tension chain as necessary. | 60 min | 7 |
| - DA SORTER DRIVE | 17. | CLEAN REDUCER OIL STRAINER Disassemble reducer oil strainer, clean and reassemble. | 15 min/ drive | 7 |
| Frequency Code: M-Q-S-A- | | | | |
| Frequency Code: S-A- | 18. | CHECK AND CLEAN MOTOR AND REDUCER HOUSINGS Clean the motor and reducer housings to insure that they are free from dirt accumulation. | 30 min/ unit | 7 |
| Frequency Code: | 19. | LUBRICATE REDUCER Take oil Sample for lab test. If change is indicated, drain and refill reducer to the | 15 min/ | 7 |

Attachment 2 5

appropriate level. (Lubricant GL-5-EP.)

-----A-

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| Part or Component | Item No. | | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req'd | Min. Skill Level |
| Frequency Code: A- | 20. | brushes indication | MOTOR BRUSHES Remove cover and check for wear and proper seating. Look for one of excessive arcing. Check brush length. If 50% of the original length, replace the brushes. It cover. | 15 min/ unit | 7 |
| | | 25 30 | TOR BRUSH LENGTH (NEW) 5 HP 1-1/2" 0 HP 1-1/2" 0 HP 2" | | |
| -DA V-BELT SORTER | 21. | SERVIC | E V-BELTS Service V-belts as follows: | 8 min | 7 |
| DRIVE ASSY | | 1. | Remove guard from V-belt drive. | 111111 | |
| Frequency Code: Q-S-A- | | 2. | Clean dirt or other foreign material from belts, sheaves, or other power transmission parts. | | |
| Q-S-A- | | 3. | Look for misalignment of sheaves and for excessive wear to V-belts and sheaves. | | |
| | | 4. | Feel V-belts (or measure sag between sheaves) to determine if tension is properly adjusted. | | |
| | | 5. | Replace guard onto V-belt drive. | | |

5. Replace guard onto V-belt drive.

Frequency Code: -----A- 22. **WRENCH-TEST BOLTS. -** Wrench test mounting bolts on output coupling.

5 min/ drive 7

WARNING

Be cautious when working around or on equipment when power has been applied.

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| Maintenance Checklist | Work Equipme Code Acronyn | | | | | | Number | | | Туре | | |
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| Part or Component | Item No. | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req'd | Min. Skill Level |
|---|-------------|--|-----------------------|------------------------|
| -Frequency Code: A- | 23. | CLEAN AND LUBRICATE DRIVE SHAFT BEARING Clean and lubricate drive shaft bearing as follows: 1. Wipe clean and lubricate the drive shaft bearing with (GR-2-EP) lubricant. 2. Lube until fresh lubricant appears at relief vent. 3. Clean off excess lubricant from bearing. | 6 min/ drive | 7 |
| -DA V-BELT SORTER DRIVE ASSY (Cont.) | 24. | 3. Clean off excess lubricant from bearing. SERVICE SPROCKET TEETH Service sprocket teeth as follows: 1. Check sprocket teeth for wear. | 12 min/ drive | 7 |
| Frequency Code: S-A- | | Remove build-up of foreign material. Check sprocket teeth mounting bolts. Tighten if required. Set SAE-8 bolts and lock nuts to 15 ft/lb torque. | | |
| Frequency Code: A- | 25. | CHECK ENCODER MODULE Check encoder module as follows: 1. Remove cover on encoder module; check for damage to belt. 2. Check top and bottom covers for wear, scuffs, gouging, strapping, cracking swells or ply | 10 min | 7 |

Attachment 2 7

4. Replace cover on encoder module.

3. Check for build-up of foreign material on top and

separation.

bottom belt surfaces.

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| Part or | Item | Task Statement and Instruction | Est. | Min. |
|-----------|------|--|-------|-------|
| Component | No. | (Comply with all current safety precautions) | Time | Skill |
| · | | | Req'd | Level |

Frequency Code: -----Q-S-A-

- 26. CLEAN AND LUBRICATE BEARING. - Clean and 7 lubricate encoder module drive shaft bearing (located on top of the main drive sprocket) as follows:
 - Wipe clean and lubricate bearing on the drive shaft.
 - 2. Clean excess lubricant from bearing.

TR1 TRIPPER ASSY

27. SERVICE TRIPPER ASSEMBLY. - Service tripper assembly as follows:

min/ assy

10

7

7

Frequency Code:

-----Q-S-A-

- 1. Remove foreign material from tripper assembly, power cables, solenoids, and air hoses.
- 2. Check air hose connectors and look for damaged air hoses.
- 3. Listen for air leaks.
- 4. Look for damage to electrical cable, solenoid valves, and connector.
- 5. Check trippers for proper position.
- 6. Wrench test all mounting bolts. Check for excess wear.
- 7. Check bumpers for wear or damage. Rotate tripper roller for ease of rotation.
- 8. Look for damaged or worn linkage.
- Check pivot points for ease of operation.

SA1 STRUCTURE

Frequency Code: -----S-A- 28. **CHECK CONDUIT AND WIRING. -** Check for damage to conduit and wiring between control panel and motor min/ panels, limit switches, photocells, and other control panel devices associated with this group panel. Look for conduit being used for handhold or steps.

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| Part or | Item | Task Statement and Instruction | Est. | Min. |
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| Component | No. | (Comply with all current safety precautions) | Time | Skill |
| • | | | Req'd | Level |

| -SA1 STRUCTURE | 29. | CLEAN AND CHECK LIMIT SWITCH Clean and check 3 limit switch as follows: mir | |
|------------------------------|-----|---|------------|
| Frequency Code: | | ass 1. Remove dust from housing and tripper arm of removable track switch. | - |
| Q-S-A- | | 2. Look for damaged or worn linkage. | |
| | | 3. Check pivot points for ease of operation. | |
| | | 4. Wrench test switch mounting bolts for tightness. | |
| | | 5. Look for damage to conduit and wiring. | |
| -SA1 STRUCTURE | 30. | CHECK STRUCTURE Check structure as follows: 40 min | |
| (Cont.) Frequency Code:S-A- | | Look for damage to supporting and structural members of equipment, misalignment at joints between equipment sections, and loose connecting bolts. | II |
| 3-A- | | Look and feel for loose anchor bolts, hanger rods, and tie rods. | |
| | | 3. Look for cracked or broken welds. | |
| Frequency Code: Q-S-A- | 31. | CENTERING DEVICE. Check parcel centering device for mounting and loose hardware. | n/ |
| STATIC DEVICE | 32. | CHECK STATIC DISCHARGE DEVICE Check 5 condition and contact of static discharge device. | n/ |
| Frequency Code: Q-S-A- | | ass | › y |

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| PARCEL SORTER (CAROUSEL) | | | | | | MM9 | 584 | AD | | | ALI | _ |
| WITH BELT DRIVE UNIT | | | | | | | | | | | | |

| Part or Component | Item No. | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req'd | Min. Skill Level |
|------------------------------|-------------|--|-----------------------|------------------------|
| STABILIZER | 33. | CHECK STABILIZER Check tray stabilization bar for secure mounting, damage, and 1/2" clearance. | 15 min/ | 7 |
| Frequency Code: Q-S-A- | | occure mounting, damage, and 1/2 occuration. | assy | |

WARNING

Be cautious when working around or on equipment when power has been applied.

| SYSTEM Frequency Code:M-Q-S-A- | 34. | equipme containe current providing | 3 min | All | | | | |
|----------------------------------|-----|---|---|-----|--|--|--|--|
| CLEAN-UP Frequency Code:M-Q-S-A- | 35. | equipme your su | CLEAN-UP. - Remove maintenance materials and 2 All equipment from the work area. Report all deficiencies to min your supervisor. Initiate any necessary work orders to make necessary repairs. | | | | | |
| START-UP 36. Frequency | | START- follows: | 5 min | All | | | | |
| Code: M-Q-S-A- | | 1. | Start or preset equipment. | | | | | |
| | | 2. | Check for proper operation. | | | | | |
| | | 3. | Report all deficiencies to your supervisor in order to initiate any necessary work orders to make necessary repairs, or to remove excessive debris. | | | | | |