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

# Maintenance Management Order

**SUBJECT:** Preventive and Operational Maintenance Guidelines for Delivery Bar Code Sorter Phase 2 - 5 using eCBM

**TO:** Maintenance Managers DBCS Phase 2-5 Offices

**DATE:** July 7, 2026

**PUB NO:** MMO-047-26
**FILE CODE:** 2D

**FILE ID:** mm26047
**REV LEVEL:** ad

This Maintenance Management Order (MMO) **supersedes MMO-050-16** and provides Preventive and Operational Maintenance Guidelines for the Delivery Bar Code Sorter. This bulletin applies to Acronym DBCS and Class Code CJ.

The workhours indicated in the workload estimate (Attachment 1) reflect the *maximum* annual workhours required to maintain each system. Actual workhour requirements and the frequency of tasks are dependent on pieces processed. Therefore, PM workhour requirements will vary day-to-day based on-site specific machine utilization. This PM MMO introduces a new item threshold trigger “Piece Count, Module” where PM items will be triggered by the specific machine module mail piece sorted, inducted, fed, transported, or etc. counts. 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.

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

**WARNING**

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

**WARNING**

**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 Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO for appropriate EWP PPE and barricade 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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Attachments
1. Summary of Workload Estimate for DBCS CJ
2. Preventive Maintenance (PM) Master Checklist for DBCS-CJ
3. Operational Maintenance (OM) Master Checklist for DBCS-CJ

# ATTACHMENT 1

## SUMMARY WORKLOAD ESTIMATE

## FOR DBCS_CJ

**SUMMARY WORK LOAD ESTIMATES FOR DBCS - CJ**

| Number of mail pieces Processed for 1 Year > | 61,6000,000 | High end estimate | For a 110 Stacker Machine |
|---|---|---|---|

| Operation Days | Routine Servicing per Machine (Hrs/Yr) | Repair Time per Machine (Hrs/Yr) * | Routine Servicing + Repair Time (Hrs/Yr) | Non-Productive Time per Machine (Hrs/Yr) ** | Total Servicing per Machine (Hrs/Yr) | Operational Maintenance + Total Servicing | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 1 Tour Hrs/Yr OpM x 1 | 2 Tours Hrs/Yr OpM x 2 | 3 Tours Hrs/Yr OpM x 3 |
| 5 Days | 495.24 | 148.57 | 643.82 | 64.38 | 708.20 | 907.53 | 1106.87 | 1306.20 |
| 6 Days | 570.64 | 171.19 | 741.84 | 74.18 | 816.02 | 1055.22 | 1294.42 | 1533.62 |
| 7 Days | 646.04 | 193.81 | 839.86 | 83.99 | 923.84 | 1202.91 | 1481.97 | 1761.04 |

* **Repair maintenance estimates based on 30% of preventive maintenance.**

** **Based on 10% of total PM and repair.**

**THRESHOLDS and PM TIME SUMMARY Hrs PER Year**

| | |
|---|---|
| Daily | 527.80 |
| Monthly | 8.2 |
| 0 | 0 |
| 1,100,000 | 42.93 |
| 2,200,000 | 2.33 |
| 4,400,000 | 26.83 |
| 14,300,000 | 7.18 |
| 20,000,000 | 11.24 |
| 57,200,000 | 1.54 |

OPERATIONAL MAINTENANCE
46 MIN. PER DAY PER MACHINE

| | One Tour | Two Tours | Three Tours |
|---|---|---|---|
| 5 Day | 199.33 | 398.67 | 598.00 |
| 6 Day | 239.20 | 478.40 | 717.60 |
| 7 Day | 279.07 | 558.13 | 837.20 |

**Machine Operating 5 Days/Week**

| # of Stackers | Routine Servicing per Machine (Hrs/Yr) | Repair Time per Machine (Hrs/Yr) * | Routine Servicing + Repair Time (Hrs/Yr) | Non-Productive Time per Machine (Hrs/Yr) ** | Total Servicing per Machine (Hrs/Yr) | Operational Maintenance + Total Servicing | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 1 Tour Hrs/Yr OpM x 1 | 2 Tours Hrs/Yr OpM x 2 | 3 Tours Hrs/Yr OpM x 3 |
| 110 | 495.24 | 148.57 | 643.82 | 64.38 | 708.20 | 907.53 | 1106.87 | 1306.20 |
| 270 | 652.64 | 195.79 | 848.43 | 84.84 | 933.28 | 1132.61 | 1331.95 | 1531.28 |
| 302 | 681.39 | 204.42 | 885.80 | 88.58 | 974.38 | 1173.71 | 1373.05 | 1572.38 |

**Machine Operating 6 Days/Week**

| # of Stackers | Routine Servicing per Machine (Hrs/Yr) | Repair Time per Machine (Hrs/Yr) * | Routine Servicing + Repair Time (Hrs/Yr) | Non-Productive Time per Machine (Hrs/Yr) ** | Total Servicing per Machine (Hrs/Yr) | Operational Maintenance + Total Servicing | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 1 Tour Hrs/Yr OpM x 1 | 2 Tours Hrs/Yr OpM x 2 | 3 Tours Hrs/Yr OpM x 3 |
| 110 | 570.64 | 171.19 | 741.84 | 74.18 | 816.02 | 1055.22 | 1294.42 | 1533.62 |
| 270 | 745.38 | 223.61 | 968.99 | 96.90 | 1065.89 | 1305.09 | 1544.29 | 1783.49 |
| 302 | 777.59 | 233.28 | 1010.86 | 101.09 | 1111.95 | 1351.15 | 1590.35 | 1829.55 |

**Machine Operating 7 Days/Week**

| # of Stackers | Routine Servicing per Machine (Hrs/Yr) | Repair Time per Machine (Hrs/Yr) * | Routine Servicing + Repair Time (Hrs/Yr) | Non-Productive Time per Machine (Hrs/Yr) ** | Total Servicing per Machine (Hrs/Yr) | Operational Maintenance + Total Servicing | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 1 Tour Hrs/Yr OpM x 1 | 2 Tours Hrs/Yr OpM x 2 | 3 Tours Hrs/Yr OpM x 3 |
| 110 | 646.04 | 193.81 | 839.86 | 83.99 | 923.84 | 1202.91 | 1481.97 | 1761.04 |
| 270 | 838.11 | 251.43 | 1089.54 | 108.95 | 1198.50 | 1477.57 | 1756.63 | 2035.70 |
| 302 | 873.79 | 262.14 | 1135.92 | 113.59 | 1249.52 | 1528.59 | 1807.65 | 2086.72 |

| | | | |
|---|---|---|---|
| **Repair maintenance estimates based on** | 30.00% | **of preventive maintenance.** |
| **Based on** | 10.00% | **of total PM and repair.** |

| Power Off Tasks | | | | | |
|---|---|---|---|---|---|
| | Threshold -> | 4.4M | 3K | 57.2M | |
| | Item # -> | 4 | 19 | 17 | |
| # Stackers | 110 | 14 | 35 | 28 | Minutes |
| | 270 | 34 | 85 | 68 | |
| | 302 | 38 | 95 | 76 | |

| Power On Tasks | | | | | | |
|---|---|---|---|---|---|---|
| | Threshold -> | Monthly | 1.1M | 14.3M | 20M | |
| | Item # -> | 21 | 27 | 26 | 22 | |
| # Stackers | 110 | 18 | 7 | 40 | 219 | Minutes |
| | 270 | 38 | 17 | 90 | 319 | |
| | 302 | 42 | 19 | 100 | 339 | |

## Frequency Codes

| Code | Frequency | Description | Co | Frequency | Description |
|---|---|---|---|---|---|
| A | ANNUAL | 1 PER YEAR | B | BI-WEEKLY | 1 EVERY 2 WEEKS |
| C | BI-MONTHLY | 1 EVERY 2 MONTHS | D | DAILY | 1 PER DAY/7 DAYS PER WK |
| E | DAILY | 1 PER DAY/6 DAYS PER WK | F | DAILY | 1 PER DAY/5 DAYS PER WK |
| G | DAILY | 1 PER DAY/4 DAYS PER WK | H | DAILY | 1 PER DAY/3 DAYS PER WK |
| J | DAILY | 1 PER DAY/2 DAYS PER WK | K | BI-ANNUAL | 1 EVERY 2 YEARS |
| L | TRI-ANNUAL | 1 EVERY 3 YEARS | M | MONTHLY | 1 EVERY MONTH |
| N | QUAD-ANNUAL | 1 EVERY 4 YEARS | P | QUINT-ANNUAL | 1 EVERY 5 YEARS |
| Q | QUARTERLY | 1 EVERY 3 MONTHS | S | SEMI-ANNUAL | 1 EVERY 6 MONTHS |
| W | WEEKLY | 1 EVERY WEEK | Y | | 1 EVERY 4 MONTHS |
| Z | | 1 EVERY 5 MONTHS | | | |
| WI[number of weeks] | WEEKS INTERVAL | Perform task once every n weeks | e.g. WI[60] Once every 60 weeks | | |

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# ATTACHMENT 2

## PREVENTIVE MAINTENANCE (PM)

## MASTER CHECKLIST for DBCS_CJ

| U.S. Postal Service<br>Maintenance Checklist | IDENTIFICATION | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WORK CODE | | EQUIPMENT ACRONYM | | | | | | | | CLASS CODE | | NUMBER | | | TYPE |
| | 0 | 3 | D | B | C | S | | | | | C | J | 0 | 0 | 1 | M |
| Equipment Nomenclature<br>Delivery Bar Code Sorter | Equipment Model | | | | | | | | | | Bulletin Filename<br>mm26047 | | Occurrence<br>eCBM | | | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (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. 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.<br>**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.<br>**WARNING FOR EWP/PPE:** Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO or appropriate EWP PPE and barricade requirements.<br>**WARNING FOR SDS:** Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment. | 1 | All | | | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: REPORT ANALYSIS | 2 | **Generate, Print, or View End of Day and Tracking Report.**<br>Prior to performing the power down lockout procedures analyze data provided on these reports to determine if any areas of machine are degraded or in need of attention. | 4 | 09 | | 1 Machine | |
| DBCS SYSTEM: COMPUTERS | 3 | **Power down the DBCS System and lock out power in accordance with the procedure as outlined in MS-229, Volume B, Section 5.2.5.**<br>**NOTE:** If any problems are encountered while performing these procedures report them to the supervisor.<br>**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 _____.**<br>Power down the machine and lock out its electrical power as prescribed by the current local lockout instructions providing lockout/restore procedures. | 2 | 09 | | 1 Machine | |
| DBCS SYSTEM: SORTING STACKERS | 4 | **Mail Search Stacker Modules and Inspect Stacker Module Belts.**<br>1. Open all machine panels, except for diverter plate cover assemblies (Wimpy panels), stacker lower front panel assemblies, and main power distribution panel.<br>2. Search all base plate areas and module interiors for mail.<br>3. Remove any mail pieces found.<br>4. Remove any large amounts of debris while doing this mail search to prevent clogging of the vacuum when doing vacuuming tasks.<br>5. Check all belts (drive and letter transport) for indications of wear. Identify any signs of excessive belt or bearing debris. Create work order(s) as needed to correct any deficiencies found.<br>6. Inspect all Gate Stop Cushions. Create work order(s) as needed to correct any deficiencies found.<br>7. Follow local procedures for returning mail to Operations for processing. | 14* | 09 | | 3 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 8. Leave doors and covers open until power up steps.<br>* Multiplied by number of Stacker Modules. | | | | | |
| DBCS SYSTEM: FEEDER AND READER | 5 | **Mail Search and Vacuum Clean Feeder and Reader**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks:<br>Check for loose, cracked, or damaged hinges in Reader Module and notify supervisor of all issues.<br>Visually check wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a corrective maintenance work order.<br>Check all belts (drive and letter transport) for indications of wear, looking for any signs of excessive belt or bearing debris and create work order(s) as needed to correct any deficiencies found.<br>Ensure laser printer has an adequate amount of paper for three tours of operation, add paper if necessary, by following instructions in MS-229 Volume B Section 2.3.2.<br>1. Vacuum and clean internal and base-plate areas of the feeder and reader modules and collect any loose mail while vacuum cleaning and follow local procedures for returning mail to operations for processing.<br>In the process of vacuum cleaning, ensure the following areas are cleaned:<br>• The P-SEN10 and P-LED10 assemblies<br>• Feeder section two power supplies (exterior cage)<br>• Outside surfaces of jogger assembly<br>• Exterior of monitor, keyboard, printer, and printer stand<br>• Reader Module 5v power supply and light barriers<br>• Inspect all Gate Stop Cushions.<br>• Exterior of the System Computer and the WFOV Processor | 25 | 09 | | 60 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | • Create work order(s) as needed to correct any deficiencies found. | | | | | |
| DBCS SYSTEM: READER MODULE | 6 | **Inspect WFOV foam roller, Inspect Reader Module guide rods, mail guides, and Clean the WFOV and ICS3 Reader Head.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>1. Check WFOV foam roller in Reader module. Replace roller if necessary.<br>**NOTE:** This check is to verify mail guide rods are not protruding into the mail path, and to ensure the roller guides, in the area of the mail guide rods, are in good condition and correctly adjusted.<br>2. Check mail guide and guide rod condition.<br>3. Ensure mail guide position is within the specifications found in MMO-104-07, Mail Guide Check and Adjustment for DBCS 2-5, DBCS/OSS, DIOSS, and CIOSS Machines, and adjust guide rods as necessary.<br>4. Check mail guide condition as per the MMO-104-07.<br>5. If the mail guide is damaged, bent, or protrudes too far into the mail path, it should be replaced.<br>6. Clean ICS-3 system electronic enclosure. Clean interior of ICS-3 electronic enclosure and electronic enclosure filters.<br>7. Clean ICS-3 system read head with an acceptable, site approved cleaner.<br>**WARNING: Use extreme caution when working around the WFOV aperture. The edges of the aperture may become extremely sharp during use of the DBCS.**<br>8. Clean WFOV Assembly.<br>a. Following safety precautions, remove the Aperture/Illumination assembly. Loosen the thumbscrew on top and pull straight up to remove. Check the aperture plates and sapphire glass for foreign objects.<br>b. Remove dust buildup on exterior of camera sapphire glass using dry cotton swabs. If adhesive buildup appears on the sapphire | 10 | 09 | | 175 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | glass, use a swab or soft cloth wet with an acceptable site approved cleaner.<br>c. If dust is found inside Aperture/ Illumination assembly refer to MS-212, Appendix A for detailed cleaning instructions.<br>d. Replace Aperture/Illumination assembly. Slide assembly straight down on front of camera head assembly and tighten thumbscrew. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.01 | **Vacuum clean stacker module 1 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean.<br>e. Clean/vacuum interior and exterior of label printers (located on first and eighth stacker modules). | 6 | 09 | | 1000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 7.02 | **Vacuum clean stacker module 2 to remove dust and debris as follows:** | 6 | 09 | | 1,000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.03 | **Vacuum clean stacker module 3 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and | 6 | 09 | | 1000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.04 | **Vacuum clean stacker module 4 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000<br>Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 7.05 | **Vacuum clean stacker module 5 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 7.06 | **Vacuum clean stacker module 6 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and | 6 | 09 | | 2000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.07 | **Vacuum clean stacker module 7 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 7.08 | **Vacuum clean stacker module 8 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean.<br>e. Clean/vacuum interior and exterior of label printers (located on first and eighth stacker modules). | 6 | 09 | | 2000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 7.09 | **Vacuum clean stacker module 9 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.** | 6 | 09 | | 2000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.10 | **Vacuum clean stacker module 10 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance. | 6 | 09 | | 2000<br>Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.11 | **Vacuum clean stacker module 11 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 7.12 | **Vacuum clean stacker module 12 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.** | 6 | 09 | | 2000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.13 | **Vacuum clean stacker module 13 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance. | 6 | 09 | | 2000<br>Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.14 | **Vacuum clean stacker module 14 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 7.15 | **Vacuum clean stacker module 15 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 7.16 | **Vacuum clean stacker module 16 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and | 6 | 09 | | 2000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 7.17 | **Vacuum clean stacker module 17 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000<br>Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 7.18 | **Vacuum clean stacker module 18 to remove dust and debris as follows:**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 7.19 | **Vacuum clean stacker module 19 to remove dust and debris as follows**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean stacker module transport area, interior, and pocket assemblies, including light barriers. This does not include the Wimpy Panels.<br>a. Remove large debris<br>b. Identify any belt or bearing dust and write a work order to do corrective maintenance.<br>c. Vacuum transport area, interior, and pocket assemblies, including light barriers.<br>d. Ensure light barriers are clean. | 6 | 09 | | 2000<br>Module | |
| DBCS SYSTEM: SAFETY WARNING LABELS | 8 | **Check safety warning label condition.**<br>**NOTE:** Refer to MMO-056-09 for Verification or Replacement of Safety Warning Labels on DBCS Platform Based Equipment for label locations and part numbers.<br>1. Verify feeder modules have safety warning labels present, correctly located and in good condition.<br>2. Verify stacker modules have safety warning labels present, correctly located and in good condition.<br>3. Notify supervisor of missing or worn feeder/stacker safety warning labels and initiate a work order to replace or remove and replace as necessary. | 4 | 09 | | 4,400<br>Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: FEEDER AND READER | 9 | **Clean Feeder and Reader Module Frame.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance. Open any additional doors necessary to perform the following cleaning steps:<br>1. Clean Feeder Module. Clean/vacuum all plates, covers, doors, framework, etc., including the vibrator assembly. Verify vibrator motor power cord is not rubbing against frame.<br>2. Clean Transport Module.<br>a. Clean all plates, covers, doors, and framework.<br>b. Remove and clean the two filters located in the knob of the air compressor, after cleaning reinstall.<br>3. Reader Module - Clean/vacuum all plates, covers, doors, and framework.<br>**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.**<br>4. Clean/vacuum System Computer and WFOV Computer.<br>5. Remove covers from System Computer and WFOV Processor and clean.<br>6. Re-install covers. | 46 | 09 | | 4,400 Machine | |
| DBCS SYSTEM: VACUUM/CLEAN | 10 | **Vacuum/clean top of Reader and Stacker Modules.** | 23 | 07 | | | M |
| DBCS SYSTEM: UNDER MACHINE CLEAN/CHECK | 11 | **Clean and check for mail under machine.**<br>1. Remove foam strips from back side of machine and outer side of Feeder and Transport section. | 58 | 07 | | 57,200 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 2. Using a flashlight, start at Transport and look for mail pieces under machine, proceed to check for mail to last stacker.<br>3. Remove any mail pieces found.<br>4. Follow local procedures for returning mail to Operations for processing.<br>5. Starting at the backside of the last stacker, work toward the Transport and Feeder sections cleaning and vacuuming any dust and debris found from under the machine.<br>6. Reinstall foam strips to backside of machine. | | | | | |
| DBCS SYSTEM: FEEDER | 12 | **Check Feeder wear and items as follows:**<br>• Teflon strip<br>• Rubber strippers<br>• Pick-off belts<br>• Compensator levers<br>• Check for recommended gap setting of 5 (MMO-032-11).<br>• Generate a Work Order to replace as required.<br>Refer to MMO-029-08, Feeder Alignment and Performance Adjustments for detailed feeder alignment and performance adjustments. | 1 | 09 | | 173 Machine | |
| DBCS SYSTEM: FEEDER | 13 | **Check Feeder alignment.**<br>Reference MMO-029-08, Feeder Alignment and Performance Adjustments for alignment and performance adjustments.<br>1. Check Feeder alignment steps that do not require power using template, PSN 5220-04-000-5005.<br>**NOTE:** If any discrepancies are found, write a work order to do a full Feeder alignment in accordance with MMO-029-08, Feeder Alignment and Performance Adjustments. | 15 | 09 | | 1,100 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: FEEDER | 14 | **Check Feeder transport for wear.**<br>1. 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 route.<br>2. Check transport blade, transport blade mounting bracket, and sliding bearing block for loose bolts.<br>3. Check transport blade assembly for bearing wear. Ensure transport assembly moves smoothly along guide rod.<br>4. Check pawl for wear.<br>5. Note any deficiencies and generate a work order and report them to the supervisor. | 5 | 09 | | 2,200 Machine | |
| DBCS SYSTEM: READER MODULE | 15 | **Replace Encoder (Tachometer) Tube Coupler and Hose Clamp.**<br>**NOTE:** New style DynaPar Encoder requires the Tube Coupling Assembly 3010-17-000-0910.<br>Reference MS Handbook MS-229, Volume B, Section 7.6.8 for detailed drawings.<br>1. Remove and replace the Encoder Tube Coupler (PSN 4720-02-000-4060) and Hose Clamp (PSN 4730-01-336-5495) located on the Reader Module Plate.<br>2. If problems occur while doing these procedures notify your supervisor and if needed generate a work order to resolve those problems. | 10 | 09 | | 14,300 Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 16.01 | **Clean/vacuum and inspect stacker module 1.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000<br>Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: SORTING STACKERS | 16.02 | **Clean/vacuum and inspect stacker module 2.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 16.03 | **Clean/vacuum and inspect stacker module 3.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and | 13 | 09 | | 4000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.04 | **Clean/vacuum and inspect stacker module 4.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly. | 13 | 09 | | 4000<br>Module | |

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Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.05 | **Clean/vacuum and inspect stacker module 5.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS)..<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 16.06 | **Clean/vacuum and inspect stacker module 6.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and | 13 | 09 | | 4000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.07 | **Clean/vacuum and inspect stacker module 7.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS). | 13 | 09 | | 4000<br>Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.08 | **Clean/vacuum and inspect stacker module 8.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 16.09 | **Clean/vacuum and inspect stacker module 9.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.** | 13 | 09 | | 4000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.10 | **Clean/vacuum and inspect stacker module 10.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply | 13 | 09 | | 4000<br>Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.11 | **Clean/vacuum and inspect stacker module 11.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 16.12 | **Clean/vacuum and inspect stacker module 12.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**WARNING: Use extreme caution in area of pocket assembly wear plate. On some machines, wear plate extends past edge of its** | 13 | 09 | | 4000 Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **base and into stacker area, exposing sharp edges.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.13 | **Clean/vacuum and inspect stacker module 13.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side. | 13 | 09 | | 4000<br>Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.14 | **Clean/vacuum and inspect stacker module 14.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 16.15 | **Clean/vacuum and inspect stacker module 15.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.** | 13 | 09 | | 4000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.16 | **Clean/vacuum and inspect stacker module 16.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies | 13 | 09 | | 4000<br>Module | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.17 | **Clean/vacuum and inspect stacker module 17.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | 13 | 09 | | 4000 Module | |
| DBCS SYSTEM: SORTING STACKERS | 16.18 | **Clean/vacuum and inspect stacker module 18.** | 13 | 09 | | 4000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance.<br>1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 16.19 | **Clean/vacuum and inspect stacker module 19.**<br>**WARNING: Edges of spiral stacking auger may be sharp. Use extreme caution when working near spiral stacking auger.**<br>**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.**<br>**WARNING: Use non-metallic ends on the vacuum while cleaning the power supplies.**<br>**NOTE:** While performing the following tasks, do a visual check of wiring harnesses, cabling, and connectors for wear, loose connections, etc., and if any problems are found, write a work order to do corrective maintenance. | 13 | 09 | | 4000 Module | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 1. Clean/vacuum all plates, covers, doors, framework, diverter plate cover assemblies (Wimpy panels), stacker display panels back and front side.<br>2. Remove each cover on stacker module 5/24/42 VDC power supplies.<br>3. Verify power supply has two fuse blocks (MSB-022-98, Installation of Power Supply Fuse Kit on 24/42 Volt Power Supplies of ECA DBCS).<br>4. Using an approved vacuum cleaner, clean inside of each power supply assembly.<br>5. Replace covers. | | | | | |
| STACKER MODULES: FOAM PADS | 17 | **Check the foam pads located on every guard finger of the Stacker Fence Assembly in each stacker pocket area for all tiers.**<br>1. Check the foam pads (PSN 9320-03-000-0023) to see if they are missing, damaged, and/or degraded in any way.<br>2. Make a list of the foam pads needing replacement and their locations.<br>3. Generate a Work Order to replace the foam pads found and recorded in Steps 1 and 2 of this instruction.<br>* Multiplied by number of Stacker Modules. | 28* | 09 | | 57,200 Machine | |
| DBCS SYSTEM: FEEDER, TRANSPORT, AND READER | 18 | **Check belts, rollers, belt tension, and gates.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** Reference MS-229 Volume B Section 6.2 for belt tensioning details and specifications in the sub-sections. The two types of belt tensiometers are:<br>• Narrow belt tensiometer - PSN 3915-02-000-3404, P/N 501-62571<br>• Wide belt tensiometer - PSN 3915-06-000-8140, P/N 502-33025-00<br>1. Check all belts (drive and letter transport) for indications of wear. Create work order to replace worn, deformed, split, or torn belts.<br>2. Check belt tension for all belts on both sides of the mail transport plates in the Feeder and | 12 | 09 | | 4400 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | Reader section. Create work orders for improperly tensioned belts.<br>3. Check for broken or burred gate flags.<br>4. Write work orders as needed for replacement of belts and/or gates.<br>5. Check all rollers / sprockets (drive and idler) for proper adjustment and indications of wear and/or dirt buildup. Clean rollers as necessary and create work orders if needed. | | | | | |
| DBCS SYSTEM: SORTING STACKERS | 19 | **Check belts, rollers, belt tension, and gates.**<br>**WARNING: Discard solvent soaked materials according to local procedures to prevent pollution or spontaneous combustion.**<br>**NOTE:** Reference MS-229 Volume B Section 6.2 for belt tensioning details and specifications in the sub-sections. The two types of belt tensiometers are:<br>• Narrow belt tensiometer - PSN 3915-02-000-3404, P/N 501-62571<br>• Wide belt tensiometer - PSN 3915-06-000-8140, P/N 502-33025-00<br>1. Check all belts (drive and letter transport) for indications of wear. Create work order to replace worn, deformed, split, or torn belts.<br>2. Check belt tension for all belts on the top and bottom of the mail transport plates in each Stacker Module except for belts that do not have tension adjustments such as the bin belts and auger belts. Create work orders for improperly tensioned belts.<br>3. Check for broken or burred gate flags.<br>4. Write work orders as needed for replacement of belts and/or gates.<br>5. Check all rollers / sprockets (drive and idler) for proper adjustment and indications of wear and/or dirt buildup. Clean rollers as necessary and create work orders if needed.<br>* Multiplied by number of Stacker Modules. | 35* | 09 | | 4400 Machine | |
| DBCS SYSTEM: POWER UP | 20 | **Power Up DBCS system.**<br>1. Power up preparation. | 8 | 09 | | 1 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | a. Ensure tools and materials are removed from work area.<br>b. Replace all machine panels.<br>c. Close all machine doors and covers.<br>**WARNING: Be cautious when working around or on equipment when power has been applied. Some of the following tasks require that the machine be running. Take precautions to prevent hair, clothing, tools, and test equipment from being caught in moving parts. Restore power to equipment as prescribed by current local procedure providing lockout/ restore procedures.**<br>**Refer to MS Handbook MS-229, Volume B, Section 5.2.6 for details and comply with all local lockout procedures.** | | | | | |
| DBCS SYSTEM: INTERLOCKS AND E-STOPS | 21 | **Check all system interlocks and emergency stop switches.**<br>**WARNING: Be cautious when working around or on equipment when power has been applied. This task requires the machine to be running. Take precautions to prevent hair, clothing, jewelry, tools, and test equipment from being caught in moving parts.**<br>**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.<br>**NOTE:** This task requires two people. Time is doubled for staffing purposes. Verify light conditions and warning sounds for each E-Stop and interlock.<br>1. Start machine. When START switch is pressed, verify start-up warning indicators around sorter flash amber and 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.<br>2. Press EMERG STOP mushroom switch on feeder control panel assembly and note that following occurs:<br>a. Machine stops immediately.<br>b. Lamp lights in EMERG STOP switch. | 18* | 09 | | | M |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | c. Red EMERG STOP indicator lights on appropriate system control panel column.<br>d. READY lamp goes out on system control panel.<br>e. Pressing Start pushbutton does not start machine.<br>3. Reset EMERG STOP mushroom switch and note that following occurs:<br>a. System READY lamp illuminates on system control panel.<br>b. Red EMERG STOP indicator goes out on appropriate system control panel column.<br>c. Lamp goes out in module control panel EMERG STOP switch.<br>d. Machine can now be started.<br>4. Start machine. When START switch is pressed, verify 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.<br>5. Open Reader Module front panel door and note that the following occurs:<br>a. Machine stops immediately.<br>b. Red EMERG STOP indicator lights on appropriate system control panel column.<br>c. READY lamp goes out on system control panel.<br>d. Pressing Start pushbutton does not start machine.<br>6. Close Reader Module front panel door and note that the following occurs:<br>a. System READY lamp illuminates on system control panel.<br>b. Red EMERG STOP indicator goes out on appropriate system control panel column.<br>c. Lamp goes out in module control panel EMERG STOP switch.<br>d. Machine can now be started. | | | | | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 7. 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.<br>8. Without starting and stopping machine, check interlocks one at a time, by opening of 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 is 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.<br>9. If any problems are found, notify supervisor.<br>* Multiplied by number of Stacker Modules. | | | | | |
| DBCS SYSTEM PREDICTIVE MAINTENANCE | 22 | **Perform predictive maintenance tasks and procedures.**<br>**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.**<br>**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 investigation.<br>1. Prepare machine.<br>a. Shut down the DBCS System. Refer to MS Handbook MS-229, Volume B, Section 5.2.5 for details and comply with all local lockout procedures.<br>b. Open covers and then remove panels. Open all machine doors including Main AC Power Panel, Feeder Distribution Panel, and Motor Distribution Panel. Open or remove all machine panels, this includes diverter plate cover assemblies (Wimpy panels). Override interlock switches. Rear Main Power Unit must | 219* | 09 | | 20,000 Machine | |

Tasks marked with one asterisk after the time required are per unit tasks.
Tasks marked with two asterisks after the item number are critical tasks.

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | bypass magnetic contacts for DBCS to run.<br>**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.**<br>**NOTE:** Rear Main Power Unit must bypass the magnetic contacts for DBCS to run.<br>c. Restore power to equipment as prescribed by the current local procedure providing lockout/restore procedures.<br>d. Start the DBCS machine.<br>**NOTE:** Machine must have been running for a minimum of 15 minutes prior to doing the ultrasonic and infrared scans.<br>2. Ultrasonic scans.<br>**NOTE:** Use the Long-Range Module (cone) on the Ultra-Probe when doing the ultrasonic scans.<br>a. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Feeder, for excessive vibration and noise.<br>b. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Transport, for excessive vibration and noise.<br>c. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of the Reader module, for excessive vibration and noise.<br>d. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Motor Power Distribution, for excessive vibration and noise.<br>e. Use ultrasonic detector to monitor all bearing assemblies, top and bottom of Tiers 1-4 of the Stacker modules, for excessive vibration and noise.<br>3. Infrared scans.<br>a. Use non-contact infrared to scan Main Power Unit front and rear (magnetic interlock on panel), scan all terminal connections and connector plugs. | | | | | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | b. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Feeder for abnormal temperature.<br>c. Use non-contact infrared to monitor all terminal connections and connection plugs in the Feeder Distribution Panel for abnormal temperature.<br>d. Use non-contact infrared to monitor all motors, terminal connections, and connector plugs in the Transport for abnormal temperature.<br>e. Use non-contact infrared to monitor all terminal connections and connection plugs in Reader module for abnormal temperature.<br>f. Use non-contact infrared to monitor all terminal connections and connector plugs in the Motor Distribution Panel for abnormal temperature.<br>g. Use non-contact infrared to monitor all terminal connections and connector plugs in the Stacker Modules, Tiers 1-4 for abnormal temperature.<br>4. Restore equipment to ready status.<br>a. Shut down the DBCS System. Refer to MS Handbook MS-229, Volume B, Section 5.2.6 for details and comply with all local lockout procedures.<br>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.<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>c. Restore power to equipment as prescribed by the current local procedure providing lockout/restore procedures.<br>d. Power on computer systems using current local computer restore procedures.<br>* Multiplied by number of Stacker Modules. | | | | | |
| DBCS SYSTEM: FEEDER | 23 | **Check Feeder Alignment Power On Steps using template, PSN 5220-04-000-5005.**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.** | 15 | 09 | | 1,100 Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **NOTE:** If any discrepancies are found, write a work order to do a full feeder alignment in accordance with MMO-029-08, Feeder Alignment and Performance Adjustments.<br><br>**Perform the following Power On Feeder Alignment Checks/Inspections found in MMO-029-08 Attachment 3:**<br><br>1. Check Bottom Transport Belt tension and tracking. (See MMO-029-08 Attachment 3 Step 9).<br><br>2. Check P-GL4 timing disk assembly. Ensure timing disk is not rubbing sensor on P-GL4 card and there is no dust in timing holes. (See MMO-029-08 Attachment 3 Step 29).<br><br>3. Check transport switch S-10. Verify Transport LED goes out when transport blade is 0.5 to 1.0 mm from pickoff belts. (See MMO-029-08 Attachment 3 Step 30).<br><br>4. Check alignment of letter present sensor switch. Place transport blade 75 mm from pickoff belts. Place a white piece of paper on jogger side of transport blade, ensuring hole is covered to verify sensor goes off. (See MMO-029-08 Attachment 3 Step 31).<br><br>5. P-DZ80 – P-LS80 or P-SEN10 – P-LED10 light barrier alignment. Ensure slide is closed. Place ruler across transport pinch point rollers with edge of ruler across centerline of both pinch point rollers. Looking straight down, verify center of last diode pair is even with ruler edge (position may be up to 4-mm downstream from ruler edge - (See MMO-029-08 Attachment 3 Step 32).<br><br>6. Check slide switch. Verify that with slide CLOSED, roller rests at peak of cam and slide LED goes OFF when cam is no more than halfway down cam slope. (See MMO-029-08 Attachment 3 Step 33).<br><br>7. Check proximity switch and actuating vane. Verify 0.25mm clearance between proximity switch and vane. Verify BTM TRSP BELT LED goes out when pick-off belt swing arm moves 1.0 to 1.5-mm from home stop. (See MMO-029-08 Attachment 3 Step 34).<br><br>8. Verify gap switch setting of 5 for DBCS. (See MMO-029-08 Attachment 3 Step 36). | | | | | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | **MMO-029-08 Attachment 3 has brief, summarized written steps and Attachment 2 has detailed written steps with drawings.** | | | | | |
| TRANSPORT MODULE: ICS ELECTRICAL ENCLOSURE | 24 | **ID Tag Reader System electrical enclosure inspection.**<br>**NOTE:** Reference MMO-113-08, ICS ID Tag Reader System Electronics Enclosure Inspection and/or MMO-078-11, Identification Code Sort (ICS) Electronics Enclosure Assembly S-2 Switch Configuration Change and Update.<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>Verify ICS Dipswitches are set properly per MMO-113-08 and/or MMO-078-11 for a DBCS _CJ machine which is currently 0x18.<br>a. On the System Computer, select Maintenance<br>b. System Test<br>c. ID Tag Reader Test<br>d. Select appropriate reader and press enter.<br>e. Press 0 to display configuration screen. | 10 | 09 | | 4,400 Machine | |
| READER MODULE: WFOV ALIGNMENT | 25 | **Perform the following on the WFOV Read Head Assembly on the DBCS.**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>1. The WFOV Read Head Assembly (RHA) is position-mounted on a spacer plate. Ensure the spacer plate is properly aligned in accordance with the most recent documentation covering this procedure, currently this will be MS-212 Section 5.2.1.<br>2. Perform the WFOV Auto (Illumination) Calibration Installation Alignment and WFOV Installation Calibration in accordance with the most recent documentation covering this procedure, currently this will be MS-212, Vol. A, Section 5.2.3.1 and 5.2.3.2.<br>3. If any problems arise necessitating corrective actions, write a work order to document the time and events associated with those problems. | 8 | 09 | | 4,400 Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS SYSTEM: READER AND STACKER MODULES | 26 | **Adjust Power supply PS1 (5VDC Reader).**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>1. Open Reader lower left door.<br>2. Place multimeter leads with clips on connectors J14 and J15 of Reader card cage backplane.<br>3. A reading of 5.1 VDC should be present, if not adjust, 5 VDC power supply potentiometer to obtain a reading of +5.0 VDC (+0.1/-0.0 VDC).<br>4. Close Reader Door.<br>**Adjust Power Supply PS1 - 5 volts (stackers).**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>1. Place multimeter leads with clips on connectors J10 and J11 of the stacker backplane.<br>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).<br>* Multiplied by number of Stacker Modules. | 40* | 09 | | 14,300<br>Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| STACKER MODULES: BIN SWITCH TEST | 27 | **Stacker bin-full switch checks.**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>1. Pull each stacker blade to its 3/4 full position and note that its associated red indicator on stacker module display panel flashes and stacker module horn beeps. Note defective stacker switches.<br>2. Pull each stacker blade to its full position and note that its associated red indicator on stacker module display panel is illuminated and stacker module horn beeps. Note defective stacker switches.<br>3. Verify stacker blade rides smoothly on the guide rod.<br>4. Notify supervisor of defective stacker switches and/or blades and initiate a work order to repair or replace as necessary.<br>* Multiplied by number of Stacker Modules. | 7* | 09 | | 1,100 Machine | |
| STACKER MODULES: GATE SOLENOID PUSHERS | 28 | **Gate and solenoid pusher assembly test.**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>1. On the system controller Main Menu, select following maintenance test: Maintenance-Systems Tests-Stacker Module Test-Gate Activation Test.<br>2. At the Gate Activation Test screen select the following: Select Desired Stackers, Select Gates-All, and Select Action-Sequence.<br>**NOTE:** Identify visually inoperative gates by viewing each stacker module one by one. Per MMO-104-08, Clarification of the Disabling of the Pusher Fingers on the DBCS Family of Equipment, the pushers are to be disabled and therefore they should not activate.<br>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, the test will move to the next stacker module. The testing will be identical for each stacker module.<br>4. Type T to begin-Start Test. | 20 | 09 | | 14,300 Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 5. Verify gate solenoids are firing in each stacker. Also verify driver module LEDs are operating for each gate. Green LED is for power and amber LED blinks when a solenoid is to be energized.<br>6. Refer to safety bulletin MMO-035-04, (Testing for Defective DBCS Equipment Family Solenoid Pusher Assemblies and Driver Module Assemblies) for corrective procedures and additional information.<br>7. Exit maintenance menu.<br>* Multiplied by number of Stacker Modules | | | | | |
| DBCS SYSTEM: ALIGNMENT CHECK | 29 | **Mail Piece Height Clearance Inspection Procedure**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>**NOTE:** Reference MMO-092-07, DBCS, CIOSS, and DIOSS Mailpiece Height Clearance Inspection Procedure for detailed instructions, required tools, and advice for correcting deficiencies.<br>1. From Main Menu, select Maintenance, System Tests, Sort Tests, Fan Sort Tests, Fan Sort Down, and Tier 1.<br>2. Load feeder with WABCR Performance Test Deck, Start Machine, Feed Test Cards until a card reaches the last sort bin, then press an E-stop.<br>3. Using a metric ruler or a suitable 4mm thick gauge such as a hex key, measure the mail height at several spots in every machine module from the feeder to the last stacker module.<br>4. Repeat above steps for all 4 tiers.<br>5. Create work orders to correct mail tracking in areas where the mail height is not between 3 to 5 mm above the deck plate.<br>6. Exit maintenance menu. | 30 | 09 | | 14,300 Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS VALIDATION: LABEL PRINTER, WFOV, AND ICS TEST DECK | 30 | **Perform the mail path validation by checking basic machine functions as follows:**<br>**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.**<br>1. Turn Maintenance Mode key switch on operator control panel to MAINT position.<br>2. Start machine. Verify when START switch is pressed, start-up warning indicators around sorter flash amber. At same time, start-up warning horns sound. Horns sound for 5 seconds and go off, while warning indicators continue to flash for a total of 10 seconds.<br>3. Do a visual and audible check of machine to verify there are no problems with belt tracking, bearing noise, inappropriate bin gate activity, or any indications of impending or existing machine problems.<br>4. Proceed to end stacker and press Emergency Stop button. Verify machine stops.<br>5. If machine fails to stop, notify supervisor. Refer to MMO-002-03, SBK-11 Backplane Switch Configuration, for advice on correcting this issue.<br>6. De-activate E-Stop and turn Maintenance Mode switch back to NORMAL on operator control panel.<br>**Check label printer. Verify label quality.**<br>**WARNING: Be cautious when working around or on equipment when power has been applied.**<br>7. Ensure label printers are loaded with a sufficient supply of label material to support three tours of operation. If required, load the label printer.<br>8. On label printer, press LINE FEED button one time. Label printer will print out test label.<br>9. Verify test label has good quality print (not blurred) and is readable to human eye.<br>10. If the quality of the print is unacceptable, write a work order to troubleshoot and/or clean the | 20 | 09 | | 3<br>Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | thermal head using cleaning kit, PSN 7930-07-000-1593.<br>**Run WFOV test deck (PSN 3915-06-000-0428) as follows:**<br>**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.**<br>11. Set up machine in DBCS Mode.<br>12. Load Run information.<br>13. Enter Operation number (750).<br>14. Select F2 to accept.<br>15. Load sort plan WFOV_80.EBF<br>16. Select Start Mail Processing.<br>17. Select Display ZIP/Pkts and On Line Display.<br>18. Start machine and process WFOV test deck. Ensure WFOV has a GAR that equals 99% or greater. If the GAR is lower than 99%, check read reject bins for any test cards that may have unreadable bar codes. If necessary, perform a WFOV auto-calibration.<br>19. Verify the Certified Mail portion of the test deck sorts properly.<br>20. If any additional time is needed to correct ZIP result discrepancies and/or GAR issues, including auto-calibration, initiate a work order.<br>**ICS reader validation.**<br>**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.**<br>21. Set machine up to run in DBCS mode, use sort plan ICSTSTI.ebf.<br>22. From ONLINE MAIL PROCESSING screen, select Display ZIPs/Pkts.<br>23. From Select Display Option screen, select On-Line Display. | | | | | |

Tasks marked with one asterisk after the time required are per unit tasks.
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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| | | 24. Start machine and run the stress deck, PSN 3915-10-000-6361.<br>25. At online display screen, verify that ICS-3 Reader detected all ID Tags present and they read same.<br>26. Stop machine.<br>27. Retrieve and verify cards sorted correctly. Refer to MMO-144-15, Identification Code Sort System (ICSS) Two Piece Stress Test Deck With MIS E2E, PSN 3915-10-000-6361, for advice and best practices for running this test deck.<br>28. Notify supervisor of any problems found. | | | | | |
| DBCS VALIDATION: UAA INTERCEPT BARCODE | 31 | **Verify the OCR engine in the DBCS mode and can intercept UAA mail.**<br>**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.**<br>Using the Xanadu Test Deck, PSN 9310-08-000-3864, P/N 66.1026.034-00, validate UAA functionality with the following steps from the Main Menu:<br>1. Select Mode Select.<br>2. Select DBCS.<br>3. Load Run Information.<br>4. Enter Operation Number (750).<br>5. Select F2 to accept.<br>6. Load a sortplan that has a confirmed UAA pocket assigned (ParsSpecial Pockets.ebf assigns pocket 39 for UAA).<br>7. Start mail processing and run UAA test deck.<br>8. Print or view the End of Run report.<br>9. Calculate the intercept rate (# confirmed UAA test pieces divided by the total # of test pieces fed, multiplied by 100).<br>10. Verify that at least 90% of the UAA test deck was intercepted.<br>11. Log off the system computer. | 9 | 09 | | 1100<br>Machine | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| FINAL-CLEANUP | 32 | **Clean Up**<br>1. Ensure all tools, lubricants, rags, etc., are removed from the work area.<br>2. Note any deficiencies and generate a work order/report them to supervisor. | 2 | ALL | | | |

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# ATTACHMENT 3

## OPERATIONAL MAINTENANCE (OM)

## MASTER CHECKLIST

## FOR DBCS_CJ

| U.S. Postal Service<br>Maintenance Checklist | IDENTIFICATION | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | WORK CODE | | EQUIPMENT ACRONYM | | | | | | | | CLASS CODE | | NUMBER | | | TYPE |
| | 0 | 9 | D | B | C | S | | | | | C | J | 0 | 0 | 1 | M |
| Equipment Nomenclature<br>Delivery Bar Code Sorter | Equipment Model | | | | | | | | | | Bulletin Filename<br>mm26047 | | Occurrence<br>eCBM | | | |

| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (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. 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.<br>**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.<br>**WARNING FOR EWP/PPE:** Steps contained in this bulletin may require the use of Electrical Work Plan (EWP) Personal Protective Equipment (PPE). Refer to the current EWP MMO or appropriate EWP PPE and barricade requirements.<br>**WARNING FOR SDS:** Various products requiring Safety Data Sheets (SDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current SDS for each product used is on file and available to all employees. When reordering such a product, it is suggested that current SDS be requested. Refer to SDS for appropriate personal protective equipment. | 1 | All | | | |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS OPM: MACHINE LOGBOOK | 2 | **At the beginning of the operation, examine machine log.**<br>**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.**<br>**NOTE:** While performing the listed operational maintenance tasks, be alert for unusual sounds, odors, or other indications of potential failure conditions in the machine.<br>Examine log and document any unresolved problems from the previous tour.<br>**NOTE:** Operational checks must be made with machine processing mail in a normal operating mode. | 1 | 09 | | | T |
| DBCS OPM: MACHINE SAFETY | 3 | **Every two hours observe warning horn and beacons.**<br>Watch for proper operation of warning horn and beacons on machine start-ups. | 1 | 09 | | | T |
| DBCS OPM: MACHINE INDICATOR LAMPS | 4 | **Every two hours check lamps.**<br>Watch for proper functionality of indicator lamps used during normal machine operations. Correct deficiencies as soon as practical. | 1 | 09 | | | T |
| DBCS OPM: OPERATORS | 5 | **Every two hours observe feeder and check with Operator.**<br>Observe the Feeder operation and inquire if operators are having excessive processing problems. Investigate as necessary. Initiate corrective action as appropriate. | 1 | 09 | | | T |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS OPM: VIDEO DISPLAY TERMINAL WFOV | 6 | **Every two hours check mail processing screen.**<br>1. 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:<br>a. Operation 918 and 919 - 99.1% GAR<br>b. All other Operations 98.8% GAR<br>2. If MAR or GAR is below acceptable values:<br>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.<br>b. If the image is degraded or if problems are noted take appropriate corrective action. | 1 | 09 | | | T |
| DBCS OPM: OVERFLOW STACKER | 7 | **Every two hours check mail in the Overflow/Reject Stacker.**<br>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. | 2 | 09 | | | T |
| DBCS OPM: SORTING STACKERS | 8 | **Every two hours check for missorts.**<br>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. | 2 | 09 | | | T |
| DBCS OPM: READER ICS-3 | 9 | **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:**<br>1. 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.<br>2. Document any problems found and if needed write a work order. | 1 | 09 | | | T |

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| Part or Component | Item No | Task Statement and Instruction (Comply with all current safety precautions) | Est. Time Req. (min) | Min. Skill Lev | Thresholds | | |
|---|---|---|---|---|---|---|---|
| | | | | | Run Hours | Piece Count (000) | Freq. |
| DBCS OPM: ACE/MKAT LAPTOP COMPUTER | 10 | **Every 2 hours check all performance indicators displayed on the MPEWatch Monitoring Screen including the following items:**<br>a. Key Performance Indicators (KPI).<br>b. Unplanned.<br>c. DPS Monitor.<br>1. Take appropriate action to investigate and correct any abnormalities detected in viewing MPEWatch. Generate a work order for further maintenance actions if required. | 5 | 09 | | | T |
| DBCS OPM: ADMINISTRATIVE | 11 | **At the end of the Operation Tour, compile the following information:**<br>1. Route sheet information.<br>2. Any work orders generated.<br>3. Make entries in Machine Logbook of any discrepancies found during the mail run.<br>4. Turn this information into Maintenance Supervision. Brief personnel coming on duty. | 2 | 09 | | | T |

Tasks marked with one asterisk after the time required are per unit tasks.
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