

PM PACKET SIGN-OFF SHEET

Work Order #: 2099 E 2181		Equipment ID: 1625	
PM Service (ex. 45-Day, 92-Day, 1YR etc.): 90 day			
Date Work Order Opened: 4-5-23		Date Work Order Finished: 4-8-23	
Confirm all work carried out in accordance with the PM requirements:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Work Deferred	
If work Deferred, confirm that a Deferred work order has been raised:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Enter Deferred Work Order number below <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
MEC557 Report has been run and relevant Work Orders and Service Requests have been reviewed and addressed.	Yes <input checked="" type="radio"/> No <input type="radio"/>	Include a copy of the final MEC557 report for the equipment with the PM packet.	
All required forms are attached and completed:	Yes <input checked="" type="radio"/> No <input type="radio"/>		
<u>Locomotive Tests</u> Oil Sample <input type="checkbox"/> Air Filters <input type="checkbox"/> Loco Undercarriage Inspection <input type="checkbox"/>		<u>Coach Tests</u> Disc Report <input checked="" type="checkbox"/> A/C Filters <input checked="" type="checkbox"/> Toilet <input type="checkbox"/>	
Equipment Release Date: 4/8/23			
Manager/Supervisor Reviewing Work Order: (Please print clearly and sign)			
Name: Ana Avelino		Signature: A. Avelino	
Supt reviewing Work Order: (Please print clearly and sign)			
Name: The Cull		Signature: The Cull	
Comments:			

Instructions: Please complete this form ensuring all attached paperwork is complete. Once completed, attach this form with the required PM packet documents.

Service Requests						
SR ID	Created Date	Days Old	SR Created by	Status	Symptom	Task
1625-4332975	03/09/2022	398	KRISTINA ROCHELEAU	PENDING		815-400-0040
1625-4145581	10/04/2021	554	DONALD O'CONNELL	PENDING	HVAC20	809-110
1625-4876002	12/12/2022	120	DONALD O'CONNELL	PENDING	HVAC20	809-110

PM Services/Inspections Due				
Task ID	Description	Last Scheduled	Last Completed	Next Due
SAND CTC	SANDER INSPECTED AND SANDBOX REFILLED	03/13/2020	07/20/2020	07/20/2020
CTC45-PM	CTC 45 DAY INSPECTION MID CLASS PM	06/21/2020	02/16/2022	05/23/2023
HVAC-SPONGE	HVAC AIR SPONGE REPLACEMENT	12/28/2022	02/14/2023	02/14/2023
COACH-CLIN-A	COACH CLEANING INSPECTION - CLASS A - MONTHLY CLEAN	04/30/2022	08/23/2022	08/23/2022
AC FILTER-30	REPLACE RETURN AIR AND FRESH FILTERS - 30 DAY	04/19/2023	04/08/2023	05/08/2023
COACH-CLIN-EX	COACH EXTERIOR CLEANING - CARWASH WASH AS WEATHER PERMITS			12/31/2032
COACH-CLIN-C	COACH INTERIOR CLEANING - CLASS C - DAILY CLEAN			
-OOS CREDIT	OUT OF SERVICE CREDIT ONLY - FOR CREATING HISTORICAL RECORDS			

Due Within 5 days

Work Orders						
Work Order ID	Created date	Days old	WO Created by	Work Order Title	Job Type	PM Service
MBETCH-2023-2099	04/05/2023	6	NICOLE SIMS	90 DAY PM- COMPLETED	PM	CTC90-PM
MBETCH-2023-2181	04/05/2023	6	ELAINE DEROSA	MR1 92 DAY- COMPLETED	REPAIR	
MRDYD-2020-4886	10/25/2020	898	EVER DIAZ		REPAIR	

MUP's - Multi-Unit Projects				
Project Code	Description	Work Order ID	Service Request ID	Project Due Date
SU2022-010	PTC RADIO SOFTWARE UPGRADE		1625-4332975	04/08/2022
FBDINST20	AUTOMATED PEOPLE COUNTER (APC) FBD/INSTALL PROJECT - 4TH GENERATION INSTALL	MRDYD-2020-4886		07/28/2023

Due Within 5 days

Locomotive Inspection and Repair Record

Reporting year 2023		Check if new loco <input type="checkbox"/>		If loco. renumbered Give previous no.			
1. OPERATED BY KEOLIS COMMUTER SERVICES			RR CODE: KRSB		2. OWNED BY (RAILROAD): MASS BAY TRANSPORTATION AUTHORITY		RR CODE: MBTA
3. MODEL NO. CTC-1B	4. LOCO NO. 1625	5. YR. BUILT 1989	6. PROPELLED BY NMUC	7. HORSEPOWER N/A	8. TYPE OF SERVICE: Passenger <input checked="" type="checkbox"/> Road <input type="checkbox"/> Yard <input type="checkbox"/> Other <input type="checkbox"/>		
9. STEAM GEN. N/A - NOT APPLICABLE	10. MAXIMUM PISTON TRAVEL 5"		TYPE OF AIR BRAKE 26-C		AIR DRYER Yes <input type="checkbox"/> No <input type="checkbox"/>		11. OUT OF USE CREDIT
12. LAST PERIODIC INSPECTION DATE: 10/01/2022						PLACE: SOMERVILLE MA	
AFM CAL. 229.29(b)	92 day max. interval	Previous date: N/A	Date & cert: N/A	Date & cert:	Date & cert:	Date & cert:	
PERIODIC INSPECTIONS		Check one:	<input checked="" type="checkbox"/> 92 days per 229.23(a)			<input type="checkbox"/> 184 days per 229.23(b)(1) only	
13. Date	14. PLACE	15. ITEMS*	16. PERSON CONDUCTING	15. ITEMS*	16. PERSON CONDUCTING	17. CERTIFIED BY	
01/10/2023	SOMERVILLE MA	1, 3, 4, & 7	ANTHONY CIVIELLO	3, 5, & 7	MALCOLM PHILLIPS	MICHAEL REID	
04/08/2023	SOMERVILLE MA	1, 3, 4, & 7	ANTHONY CIVIELLO	3, 5, & 7	MALCOLM PHILLIPS	ANA AVELINO	

*15. ITEM CODE:	<input type="checkbox"/> 1	BRAKES	<input type="checkbox"/> 2	RUNNING GEAR	<input type="checkbox"/> 3	CAB EQUIP.	<input type="checkbox"/> 4	MECH. EQUIP.	<input type="checkbox"/> 5	ELECT. EQUIP.	<input type="checkbox"/> 6	STEAM GEN.	<input type="checkbox"/> 7	SAFETY APPL.
TESTS			18. H & H TEST PRESSURE N/A			19. WAIVER PART - 229 N/A			20. WAIVER - OTHER N/A					
TYPE	INTERVAL NOT MORE THAN	21. PERSON CONDUCTING		22. TEST DATE AND PLACE		23. CERTIFIED BY		24. PREVIOUS TEST DATE AND PLACE						
Event Recorder 229.25(d) or 229.279(c)	Number of Calendar Days 368							6/28/2022 SOMERVILLE MA						
Annual Tests 229.27	Number of Calendar Days 368							6/28/2022 SOMERVILLE MA						
Hand Brake 232.105(c)	Number of Calendar Days 368							6/28/2022 SOMERVILLE MA						
Air Brake 1 229.29(c)(1)	Number of Calendar Days 368							06/28/2022 SOMERVILLE MA						
Air Brake 2 229.29(c)(2)	Number of Calendar Days 736							6/29/2021 SOMERVILLE MA						
Air Brake 3 229.29(c)(3)	Number of Calendar Days 1472							7/2/2019 SOMERVILLE MA						
Hammer & Hydro 229.31	Number of Calendar Days 736	DRILLED						N/A						

In accordance with the Locomotive Inspection Act, 49 USC Chapter 207 and the regulations issued pursuant to that Act, the parts and appurtenances of the locomotive unit have been inspected and all defects disclosed by the inspection have been properly repaired

Certification of true copy:

I certify that this is a true copy of the inspection and repair record of locomotive no.

Attention: A false entry on this form is punishable by fine or imprisonment (18 USC Sec1001)

1625

(Officer-in-charge)

DATE

Locomotive Inspection and Repair Record

INSTRUCTIONS: This Locomotive Inspection and Repair Record (Record or F6180-49A) covers a calendar year, except as noted. The Record for the preceding calendar year shall be retained in the locomotive until the first periodic inspection of the new year or, until the Record is replaced on April 2 or July 3 (if 184 day eligible) as required by 49 CFR 229.23(f) or, until the locomotive changes ownership (see 2 below.) Enter the requested information in each block. Special instructions are given below.

1. **OPERATED BY:** Enter the name and code of the primary railroad operating the locomotive at the time this Record is placed in it. Operator changes, including dates, shall be noted in "Remarks." The "RR Code" is as assigned by FRA to the railroad.
2. **OWNER:** Enter the name and RR Code of the owner. Changes in ownership shall be submitted as final reports.
3. **LOCOMOTIVE NO.:** Enter digits only. Include letters if they differ from the "RR Code." If renumbered, enter the previous number.
4. **YEAR BUILT:** Enter the year the locomotive was built and check if new. If remanufactured per 49 CFR 229.5, enter "RM" and the year.
5. **PROPELLED BY:** Enter Diesel-Electric (D-E), Electric (E), Electric Multiple Unit (MU), Diesel Multiple Unit (DMU), MU Control Cab (MUC), Non-MU Control Cab (NMUC), Turbine (T), Torque Converter (TC), or Other (O).
6. **MAXIMUM PISTON TRAVEL:** Enter only "nominal" travel. Do not include the manufacturer's tolerance.
7. **OUT-OF-USE CREDIT:** Enter the number of creditable calendar days the locomotive was out of use since the last periodic inspection on the previous F6180-49A. Less than 30 consecutive calendar days for any out-of-use period may not be counted per 49 CFR 229.33. For current periods out-of-use, an entry "Out-of-use from _____ to _____" shall be made on a Periodic Inspection line and certified when a locomotive which would otherwise be due for inspection is out-of-use. If the locomotive is out of use at the end of the annual reporting period, complete the "To" entry with the last day of the period. An entry shall then be made on the new Record showing the first day of the new reporting period as the "From" date.
8. **LAST PERIODIC INSPECTION:** When a new Record is placed in the locomotive transfer the last periodic inspection information into block 12a & b and the last test information into column 24 of the new Record. Tests that are not applicable should be noted "NA".
9. **AFM CAL.:** Enter the date of the last Air Flow Method Indicator (AFM) calibration from the previous year. Enter and certify subsequent calibrations as they are done.
10. **PERIODIC INSPECTIONS:** Check 184 days *only* if the locomotive qualifies per 49 CFR 229.23(b)(1) and the railroad chooses to abide by the requirement for 33 day QMI Daily Inspections, otherwise check 92 days. Persons making the required inspections shall sign and list the item codes inspected. The employee's supervisor shall certify that the inspections were completed.
11. **H&H:** Enter the test pressure for the hydrostatic air reservoir test. If the reservoirs are drilled, enter "NA" here and "Drilled" in the Hammer and Hydro line below.
12. **WAIVERS:** Any waiver applicable to this locomotive shall be entered by waiver number in block 19 if a waiver from Part 229, or block 20, if a waiver from any other regulation. Enter explanatory information regarding the scope and content of each waiver under "Remarks".
13. **TESTS:** The maximum number of days for Event Recorder, Level 2 and Level 3 air brake tests shall be entered per the referenced sections of 49 CFR 229. Where the railroad has chosen to fragment air brake clean, repair and test requirements as permitted under 49 CFR 229.29, a separate air record shall be maintained in the cab of the locomotive and the word "Fragmented" shall be entered in the Level 2 and Level 3 lines.

REPAIRS: Special notes relating to repairs performed to restore compliance.

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NOISE: Enter any noise tests or related information in accordance with 49 CFR 210.31.

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REMARKS: Additional explanatory or clarifying information.

EVENT RECORDER EQUIPPED QUANTUM 1080/M
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Work Order Detail

MBETCH-2023-2099



Asset ID:	1625 1989 BOMBARDIER CTC-1B COACH		
Repair Location:	MBETCH - BET - COACH REPAIR		
Work Order ID:	MBETCH-2023-2099	Job Status:	WORK FINISHED
Job Type:	PM	PM Service:	CTC90-PM - CTC 90 DAY CLASS PM
PM Scheduled:	03/09/2023	Service Status:	RELEASED - RELEASED FOR SERVICE
Projected Completion Date:	04/08/2023 11:26 AM	Title:	90 DAY PM
Next PM Due Date:	06/29/2023	Priority:	M4 - EVALUATE NEXT OPPORTUNITY

Non Service Request Tasks

Task: AC FILTER-30 - Replace Return Air And Fresh Filters -30 Day	Warranty: NO
WAC: 09 - SERVICED	Reason: -
Work Class: -	Comments:

Task: CTC90-PM - Ctc 90 Day Class Pm	Warranty: NO
WAC: 22 - TESTED	Reason: -
Work Class: -	Comments:

Task Notes

ANTHONY.C 4-5-2023 1:34PM AIR TEST & HEIGHTS TO DO
 ANTHONY.C 4-5-2023 5:22PM AIR TEST & HEIGHTS ARE DONE

Labor		Labor Hrs	Cost
04/05/2023 13:34	Emp: CIVIELA - Anthony Civiello	4.63	458.37
04/05/2023 17:04	MARCOTJ - Jay Marcotte	0.02	1.98
04/05/2023 17:22	CIVIELA - Anthony Civiello	2.40	237.60

Overhead

Small Parts - Labor: 0.00	Tools: 0.00	Total Overhead Costs: 0.00
Small Parts - Parts: 0.00	Overhead Costs: 0.00	

Messages

Other Open Work Orders

Work Order Number	Type	Status	Scheduled	Reason	Service
Mbetch-2023-2181	Repair	Open		C	
Mrdvyd-2020-4886	Repair	Pending		Mup	

Unit Is 43 Days Late For Inspection Service Ctc45-Pm - Due Date 02/24/2023
 Unit Is 990 Days Late For Inspection Service Sand Ctc - Due Date 07/22/2020
 Unit Is 181 Days Late For Inspection Service Coach-Cln-A - Due Date 10/09/2022
 Unit Is 976 Days Late For Inspection Service Coach-Cln-Ex - Due Date 08/05/2020
 Unit Is 976 Days Late For Inspection Service Coach-Cln-C - Due Date 08/05/2020
 Unit Is 23 Days Late For Inspection Service Hvac-Sponge - Due Date 03/16/2023
 Component Automatic People Counter (Apc) Is Under Warranty - Expires 04/12/2023

Work Order Detail

Work Order: **MBETCH-2023-2099**

PM Checklist

Task / Comment	Employee	Failed	N/A	Completed
AC FILTER-30 Exception PM: No				
PM5840 - REPLACE RETURN AIR AND FRESH FILTERS	ANTONID - DAVID ANTONINO SR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CTC90-PM Exception PM: No				
PM450 - ----- CAB TRAILER COACH 92-DAY INSPECTION -----	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5141 - ----- ELECTRICAL INSPECTOR -----	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM657 - TEST THE CAB SIGNAL SYSTEM	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5848 - COMPLETE RELAY FORM KCS-ME-FO-210034	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5849 - COMPLETE CAB SIGNAL FORM KCS-ME-FO-210035	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5432 - INSPECT DECELOSTAT MAGNETIC PICKUP FOR DAMAGE OR MISALIGNMEN	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: T				
PM5433 - TEST DECELOSTAT, DOCUMENT ON WHEEL SLIDE REPORT, DOCUMENT NU	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: MBER KCS-ME-FO-210032/PAGE 6				
PM5434 - INSPECT SPEED SENSOR	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3415 - VERIFY SANDING UNIT AND EQUIPMENT FOR PROPER OPERATION	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM FRA 229.131(A)				
PM5435 - TEST BUZZER FUNCTION	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3011 - TEST OPERATION OF PA SYSTEM	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 9.3.2 FRA 238.121				
PM3012 - TEST OPERATION OF CREW INTERCOM SYSTEM	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 9.3.2 FRA 238.121, 238.305(C)(12)				
PM4046 - TEST ALL M.U. AND SIGNAL CIRCUITS	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: FRA FRA-236.586 236.588				
PM6243 - PERFORM POWER DOOR TRAINLINE CHECK	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: KCS-ME-WI-210403				
PM6244 - PERFORM POWER DOOR GROUNDS CHECK	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: KCS-ME-WI-210432				
PM5865 - TEST THE CAB SIGNAL SYSTEM ATC AND ACSES	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RECORD RESULTS ON CAB SIGNAL INSPECTION AND TEST REPORT KCS-ME-FO-210091 FRA 229.25D 229.135 229.140				
PM5866 - PERFORM ATC CONTROL RELAY CHECK	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RECORD RESULTS ON ATC FORM KCS-ME-FO-210091 PAGE FRA 229.25D 229.135 229.140				

Work Order Detail

Work Order: **MBETCH-2023-2099**

PM5867 - TEST THE OPERATION OF THE EVENT RECORDER AND SPEED INDICATOR Procedure: RECORD RESULTS ON SPEED AND EVENT RECORDER TEST FORM KCS-ME-FO-210057 FRA 229.135 229.140	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5135 - TEST WINDSHIELD HEATERS, ENGINEER'S AND FIREMAN'S SIDE Procedure: FRA 2.8.10	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5674 - CHECK THE DAMAGE FOR ACSES ANTENNA	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4040 - INSPECT ALL UNDERSIDE CONDUIT AND ENCLOSURES FOR SIGNS OF Procedure: DAMAGE AND SEAL INTEGRITY FRA 229.25(B), 238.305(C)(1)	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4041 - CHECK UNDER CAR HIGH AND LOW VOLTAGE WIRING AND CABLING AND Procedure: ELECTRICAL EQUIPMENT FOR SIGNS OF DAMAGE OR OVERHEATING FRA 229.25(B), 238.305(C)(1)	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5215 - INSPECT ALL GROUND STRAPS AND CABLES, REPAIR OR REPLACE AS Procedure: NEEDED FRA 229.25(B), 238.305(C)(1)	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3029 - INSPECT LOW VOLTAGE CIRCUIT BREAKER FOR PROPER OPERATION Procedure: RMM 5.4.2.1 FRA 229.25(B), 238.305(C)(1)	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3030 - INSPECT LOW VOLTAGE SYSTEM FOR GROUNDS Procedure: RMM 5.4.2.1	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3031 - INSPECT HIGH VOLTAGE CIRCUIT BREAKERS FOR PROPER OPERATION Procedure: RMM 5.4.1.1	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3411 - INSPECT HIGH VOLTAGE EQUIPMENT MARKINGS ALL DOORS AND COVER Procedure: PLATES GUARDING HIGH VOLTAGE EQUIPMENT ARE MARKED DANGER HIGH VOLTAGE OR WITH THE WORD DANGER AND THE NORMAL VOLTAGE CARRIED BY THE PARTS SO PROTECTED. RMM FRA 238.303 (E)(12); 229.85; 238.305(C)(6)	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3032 - TEST CONVENIENCE OUTLETS (120 VAC) Procedure: RMM 5.9.3	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3036 - INSPECT ALL TRAINLINE JUMPERS AND RECEPTACLES FOR DAMAGE, AR Procedure: CING AND OVERHEATING RMM 5.4.3.1 AND 5.4.3.2 FRA 238.303(E) (11)	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM043 - ----- ELECTRICIAN -----	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5216 - CHECK BATTERY CHARGER FOR PROPER OPERATION AND VOLTAGE Procedure: SETTING - 72 VDC, RECORD RESULTS ON CRM-22C AND BATTERY CELL VOLTAGE TEST FORM RMM SAB/NIFE MAN., CH. 4-MIM FRA 229.43(A)(B)	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Work Order Detail

Work Order: **MBETCH-2023-2099**

PM5868 - VERIFY BATTERY CELL VOLTAGE AND RECORD READING ON CRM-22C	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: FILL CELLS TO FULL MARK-WASH TRAYS TIGHTEN CONNECTIONS AND GREASE TERMINALS FRA 229.43AB RMM SAB/NIFE MAN CH. 4-MIM				
PM5669 - VERIFY BATTERY SYSTEM FOR UNOBSTRUCTED VENTING	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5670 - VERIFY BATTERY TERMINAL CONNECTORS FOR TIGHTNESS	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5671 - VERIFY BATTERY ELECTROLYTE LEVEL	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5672 - VERIFY BATTERY CHARGING RATE	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM711 - CHECK ALL SWITCHES, RELAYS, CONTACTORS, SHUNT TRIPS, WIRING	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: CONNECTIONS AND CURCUIT BREAKERS FOR PROPER OPERATION, SIGNS OF LOOSENING AND OVERHEATING FRA 238.305				
PM5205 - REPLACE AS NEEDED HEAD LIGHTS, BRAKE INDICATOR LIGHTS, CLASS	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: LIGHTS, NUMBER LIGHTS, STEP LIGHTS, AND EMERGENCY LIGHTS (FUNCTIONALITY CHECK) FRA 229.129, 229.125				
PM5328 - VERIFY EMERGENCY LIGHTING DURATION. RECORD RESULTS ON DURATI	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: ON TEST FORM. ATTACH TO WORK PACKET. DOCUMENT NUMBER KCS-ME-FO-210041/TI-045-C-LI REV. 2 FRA 238.307(C) (5) RMM 5				
PM3040 - VERIFY OPERATION OF ALL LIGHTS. REPLACE LAMPS AS NECESSARY	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 2.8.7.2 AND 2.3.9				
PM3042 - VERIFY ALL LIGHT FIXTURES FOR PROPER SECUREMENT. CHECK FOR	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: DUST. CLEAN AS NECESSARY RMM 2.8.7.2; 6.3 AND 6.4				
PM3044 - VERIFY ALL LAMP SOCKETS FOR BREAKS; CRACKS; SCORCHING AND	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: DAMAGE RMM 6.3; 6.7.2 AND 6.7.5				
PM3045 - VERIFY ALL LAMP SOCKET TERMINAL AND CONTACTS FOR CORROSION	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: OR DAMAGE. CLEAN AS NECESSARY RMM 6.3 AND 6.4				
PM3047 - VERIFY ALL LAMP WIRE LEADS FOR FRAYING; SCORCHING; INSULATIO	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: N BREAKS AND OTHER SIGNS OF DAMAGE. CLEAN OR REPAIR AS NECESSARY RMM 6.3 AND 6.4				
PM3056 - VERIFY ALL BALLASTS AND BATTERY PACKS FOR BREAKS; CRACKS;	ASHED - DENNIS ASHE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: SCORCHING AND OTHER SIGNS OF DAMAGE. REPLACE AS NECESSARY RMM 6.3; 6.7.3 AND 6.7.6				

Work Order Detail

Work Order: **MBETCH-2023-2099**

PM5869 - PERFORM HVAC INSPECTION-DOCUMENT ON HVAC REPORT Procedure: DOCUMENT NUMBER KCS-ME-FO-210055-KCS-HVAC-INSP002-NEED TO REVIEW HVAC DOCUMENT FRA 238.303 E17	ANTONID - DAVID ANTONINO SR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4061 - REPLACE RETURN AIR AND FRESH AIR INTAKE FILTERS Procedure: FRA 238.303 (E)(17)	ANTONID - DAVID ANTONINO SR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4060 - CHECK THE EVAPORATOR BLOWER AND CONDENSER FANS FOR PROPER Procedure: WORKING CONDITION FRA 238.303	ANTONID - DAVID ANTONINO SR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4063 - CHECK OPERATION OF CAB HEATERS Procedure: FRA 229.119(D), 229.127	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4064 - INSPECT AND REPAIR TRAP HEATERS AS NEEDED Procedure: RMM-1.5.3 FRA FRA-238.305(C)(13)	ANTONID - DAVID ANTONINO SR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM6353 - TEST TRAP HEATERS BY BYPASSING THERMOSTAT PM6352 - INSPECT TRAP HEATER WIRING FOR CHAFING AT CARBODY PASS THRUS	ANTONID - DAVID ANTONINO SR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM6352 - INSPECT TRAP HEATER WIRING FOR CHAFING AT CARBODY PASS THRUS Procedure: INCLUDING INSIDE THE JUNCTION BOX	BRUNOR - RONALD BRUNO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5142 - ----- CARMAN INSPECTOR -----	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5870 - PERFORM COUPLER INSPECTION-DOCUMENT ON COUPLER REPORT Procedure: DOCUMENT NUMBER KCS-ME-FO-210072	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM371 - REMOVE CAB CARD AND REPORT ALL TEST DATES. REAPPLY CAB CARD Procedure: AT CONCLUSION OF INSPECTION FRA-236.586; 236.588	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3071 - PERFORM SINGLE CAR TEST. SIGN CAB CARD AND DATE THE HAND BRA Procedure: KE RMM 10.3.1 FRA 229.25, 238.107, 238.313	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3447 - INSPECT ALL BRAKE COMPONENTS FOR DAMAGE AND LEAKAGE Procedure: RMM 10.5.6 FRA 229.57; 238.307(C)(10)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3422 - PERFORM LEAKAGE CHECK OF TELLTALE HOLES ON COMBINED CONTROL Procedure: SELECTOR AND MAIN RESERVOIR FRA 229.31	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5871 - INSPECT WHEELS FOR DEFECTS-MEASURE WHEELS Procedure: DOCUMENT NUMBER KCS-ME-FO-210012	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5872 - INSPECT AXLE BEARING TYPE AP CLASS E6 AXLE BEARING Procedure: FOR SIGNS OF DAMAGE OR OVERHEATING	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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PM3417 - INSPECT CENTER PIN FOR COTTER PIN AND WASHER Procedure: RMM FRA 229.67	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3062 - INSPECT SIDE BEARER Procedure: RMM 3.3.11.1 FRA 238.303(E) (7)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3080 - INSPECT EQUIPMENT BOX SEALS FOR DAMAGE Procedure: RMM 2.3.18 AND 2.3.21	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3419 - INSPECT BOLSTER ANCHOR FOR DAMAGE OR LOOSE OR MISSING HARDWA Procedure: RE. INSPECT ANCHOR ROD BUSHING FOR DAMAGE. RMM 3.3.8.1	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3418 - INSPECT TRUCK FRAME AND BOLSTER FOR LOOSE OR BROKEN WELDS AN Procedure: D MISSING HARDWARE. RMM 3.3.1.1; 3.3.1.2; FRA 238.303(E)(6)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5873 - INSPECT SAFETY HANGER AND VERIFY CLEARANCE WITH BOLSTER	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3084 - INSPECT PRIMARY SUSPENSION SYSTEM Procedure: RMM 3.3.6.1 AND 3.3.6.2 FRA 238.303(E) (18) FRA 238.307(C) (11)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3081 - INSPECT BRAKE RIGGING FOR DAMAGE Procedure: RMM 2.3.18 AND 2.3.21	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5469 - INSPECT EXTERIOR DECALS AND REFLECTIONS FOR LEGIBILITY AND D Procedure: AMAGE FRA 238.303(E) (18)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3106 - TEST AND INSPECT BODY END DOOR MECHANICAL ASSEMBLY AND Procedure: PROPER OPERATION RMM 7.4.1.3; 7.3.2.3 (92); 7.3.3.3.2, 7.3.3.3.3 (184) FRA 238.305(C)(10)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3092 - INSPECT AND VERIFY TRAP DOOR MOVEMENT IS SMOOTH AND THAT Procedure: TRAP DOOR LATCHES LOCK RMM 7.3.1.2 FRA 238.305(C) (8)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3107 - INSPECT BODY END DOOR PANEL Procedure: RMM 7.3.3.3.3 FRA 238.305(C) (10)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3436 - INSPECT SIDE ENTRANCE DOOR FOR OPEN AND CLOSE OPERATION. ENS Procedure: URE FREEDOM OF MOVEMENT RMM 7.3.1.1; 7.3.2.1; FRA 238.305(C)(10)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3109 - INSPECT COLLISION POST DOOR FOR PROPER OPERATION Procedure: RMM 7.4.1.4, 7.3.2.4 (92), 7.3.3.4.1 (184) FRA 238.305(C)(10)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM6354 - INSPECT VEHICLE NUMBER ON ROOF	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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PM3063 - INSPECT VESTIBULE STEPS FOR CRACKED WELDS OR SEPARATION Procedure: RMM 2.1.4.12	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3101 - INSPECT VESTIBULE SIGNAGE FOR LEGIBILITY AND CLEANLINESS. Procedure: VERIFY NO STICKERS OVERLAP RMM 2.3.11 FRA 238.305(C) (7)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM6001 - INSPECT STRYKER CHAIR IS PRESENT AND IN WORKING ORDER	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3070 - INSPECT DIAPHRAGM FOR CUTS; DAMAGE AND PROPER SECUREMENT Procedure: RMM 2.3.4 AND 2.3.6 FRA 238.303(E) (14)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3098 - VISUAL INSPECT LOW LEVEL EXIT PATH MARKINGS (LLEPM) ARE IN Procedure: PLACE RMM 2.1.4.8; 2.3.15 AND 2.8.8 FRA 238.127 AND 238.307(C) (5)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3100 - INSPECT INTERIOR SIGNAGE FOR LEGIBILITY AND CLEANLINESS. Procedure: VERIFY NO STICKERS OVERLAP RMM 2.3.11 FRA 238.305(C) (7)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3103 - INSPECT INTERIOR AND EXTERIOR PAINTED SURFACES Procedure: RMM 2.3.21	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3104 - INSPECT PASSENGER SEATS FOR PROPER MOUNTING HARDWARE; Procedure: SECUREMENT; UPHOLSTERY CONDITION AND FOLDING SEAT OPERATION. INSPECT PASSENGER SEATS. RMM 2.3.17 AND 2.5.3 FRA 238.307(C) (1)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5479 - INSPECT WEATHER STRIPPING FOR TORN OR MISSING PIECES Procedure: FRA 238.305	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3113 - INSPECT FLOORING Procedure: RMM 2.3.12 FRA 238.305	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3437 - INSPECT FOR MISSING OR LOOSE HARDWARE. REPLACE AS NEEDED Procedure: RMM 7.3.1.2 FRA 238.305	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3094 - INSPECT WINDOW PANES; WINDSHIELD GLAZING STRIPS AND ZIPPERS Procedure: FOR DAMAGE RMM 2.3.22 FRA 223.17 AND 238.221	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4087 - VERIFY PROPER OPERATION OF EMERGENCY EXIT WINDOW LOCATION Procedure: AND RECORD. FRA 238.305(C)(4)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5874 - INSPECT MR AND BP HOSES IN PLACE WITH SPARES IN LOC - CARMAN Procedure: FRA 238.307C 4	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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PM3434 - INSPECT OPERATION OF WINDSHIELD WIPERS Procedure: RMM 2.3.25; 2.4.11; 2.8.10 FRA 229.119(B)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM117 - ----- CARMAN -----	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4080 - INSPECT ALL BRAKE EQUIP INCL. VALVES TREAD BRAKES FOR PROPER Procedure: OPERATION; SECUREMENT OF ALL BOLTS AND BUSHINGS AND COTTER KEYS RMM 9.2.2	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4028 - CHANGE BRAKE SHOES AS NEEDED Procedure: RMM 9.2.13 FRA FRA-238.311, FRA-238.307(C) (10)	MEDEIRC - CARLOS MEDEIROS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3324 - TEST OPERATION AND LUBRICATE HANDBRAKE. TEST OPERATION Procedure: OF HANDBRAKE INDICATOR SWITCH RMM 10.3.11; 10.5.2 FRA 238.231(H); 238.307(C)(13); 238.307(D)(2)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4010 - TEST ALL EMERGENCY VALVES (CONDUCTORS VALVES) Procedure: FRA-238.311, FRA-238.307(C)(10)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM817 - CHECK ALL EQUALIZER BEAM BUSHINGS FOR DAMAGE, REPLACE AS REQ Procedure: UIRED - 8 LOCATIONS PER COACH RMM 12.2.3 FRA 238.303(C)(5)(IV)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5202 - INSPECT AND TEST DOOR OPERATION AND LUBRICATE ALL MOVEABLE P Procedure: ARTS INCLUDING DOOR TRACKS AND ROLLERS WITH DRY GRAPHITE AS NEEDED RMM-6.1.2 FRA FRA-238.305(C)(13), FRA-238.305(C)(8)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5875 - VERIFY ENTIRE CAR BODY FOR LOOSE DEFECTIVE AND MISSING PARTS Procedure: TO INCLUDE LUGGAGE RACKS SEATS SEAT ATTACHMENTS AND TRAPS FRA-238.307C1 RMM-1.4.1.A	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4016 - CHECK FOR PROPER EMERGENCY SIGNAGE INTERIOR AND EXTERIOR AND Procedure: HIGH VOLTAGE SIGNS FRA-238.305(C)(7)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3099 - INSPECT INTERIOR PANELS FOR DAMAGE AND PROPER SECUREMENT Procedure: RMM 2.3.16 FRA 238.305(C)(13)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3088 - INSPECT HANDLES AND CATCHES FOR PROPER OPERATION Procedure: RMM 7.3.2.2; 7.3.2.3 FRA 238.305	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM331 - INSPECT ENTIRE CAR BODY FOR LOOSE , DEFECTIVE AND Procedure: MISSING PARTS, TO INCLUDE LUGGAGE RACKS, SEATS, SEAT ATTACHMENTS AND TRAPS RMM-1.4.1.A FRA FRA-238.307(C)(1)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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PM5876 - VERIFY EMERGENCY PRY BAR AND HOSE WRENCH ARE IN PLACE Procedure: REPLACE AS NECESSARY AND SEAL FRA-238.307C4	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3323 - INSPECT FIRST AID KIT. REPLENISH AS NECESSARY Procedure: RMM 2.3.10 FRA 238.305(C)(4)	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4036 - CLEAN FRESH AIR INTAKE SCREEN AT BOTH ENDS Procedure: RMM 7.10.10	MEDEIRC - CARLOS MEDEIROS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4086 - REPLACE BAD-ODOR SPONGE AT BOTH ENDS OF CAR Procedure: RMM PM-007-C-HA	MEDEIRC - CARLOS MEDEIROS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5214 - TEST AIR GAUGES Procedure: FRA-229.46	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3446 - REPLACE WIPER BLADES (EVERY 92 DAYS) Procedure: RMM 2.3.25; 2.4.11; 2.8.10 FRA 229.119(B)	BROWNJO - JOHN BROWN JR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3440 - INSPECT CAB SEAT, SUN SHADE, AND FOOT REST Procedure: RMM 2.3.3, 2.8.3 FRA 229.119(C)(E), 229.119(A), 238.305	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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PM6312 - INSPECT AEI TAG -- SEE DOC WI-ME-210311 PAGE 5	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: DOCUMENT WI-ME-210311 -- RELEVANT SECTION IS ON PAGE 5:				
PERIODIC AEI TAG VERIFICATION REPLACEMENT AND PROGRAMMING PROCEDURE: AEI TAGS WILL BE VERIFIED IN THE FIELD AS TRAINSETS ARE CYCLED THROUGH S&I BUILDINGS, AND ALSO DURING PMS. AEI TAG READERS VERIFY TAG FUNCTIONALITY BY REPORTING VEHICLE ROAD NUMBER AND POSITION OF EACH TAG ON VEHICLE, 2/VEHICLE. 11. USING THE TRANSCORE E1150 AEI TAG READER, CHECK FUNCTIONALITY OF EACH TAG ON VEHICLE, 2/VEHICLE, BY PRESSING AND HOLDING DOWN THE BLACK BUTTON FOR 2 SECONDS. IF FUNCTIONING PROPERLY, TAG READER WILL DISPLAY CURRENT CONFIGURATION. 12. IF AEI TAG REQUIRES REPLACEMENT, DRILL OUT EXISTING RIVET HEAD WITH A #11 OR 3/16" DRILL BIT, AND PUNCH OUT RIVET WITH SMALL DRIFT PIN PUNCH. REMOVE OLD TAG. 13. INSTALL NEW TAG: A. ENSURE THAT THE CORRECT TAG, PROGRAMMED BY VEHICLE & POSITION, IS INSTALLED "RIGHT-SIDE UP & OUT", AND AT THE DESIGNATED POSITION. B. INSTALL WITH BLIND RIVETS WITH A POP RIVET GUN. NOTE THAT BI-LEVEL COACHES USE A DIFFERENT RIVET TYPE FROM ALL OTHER VEHICLES: • FOR ALL SINGLE LEVEL VEHICLES & LOCOS: MCMaster CARR PN: 97526A360 DOMED HEAD ALUMINUM BLIND RIVETS LARGE-DIAMETER HEAD, 3/16" DIAMETER, FOR 0.376"-0.5" THICKNESS. • FOR ALL BI-LEVEL VEHICLES: MCMaster CARR PN: 97525A640 DOMED HEAD BLIND RIVETS 318-8 STAINLESS STEEL BLIND RIVETS, DOMED HEAD, 3/16" DIAMETER, FOR 0.251"-0.375" THICKNESS.				
PM110 - SHEET METAL WORKER	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM4070 - CHECK UNDERCAR PIPING FOR SIGNS OF LOOSENING AND DAMAGE	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 9.2.2, FRA-238.307(C)(10)				
PM5211 - INSPECT ALL PIPING, VALVES, HOSES & FITTINGS THAT SHOW SIGNS	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: OF LEAKS, ABRASIONS, CRACKS, HOLES, HAVE MISSING OR BROKEN COMPONENTS OR ARE BELIEVED TO HAVE RESTRICTIONS. REPAIR AND REPLACE AS NEEDED RMM 9.2.2, 4.1.4, 2.2.4				
PM5212 - TEST SANDER SYSTEM AND ITS COMPONENTS REPAIR AND REPLACE AS	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: NEEDED FRA 229.131(A)				
PM3452 - FLUSH AND CLEAN HVAC EVAPORATOR DRAIN PANS	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 8.3.16				
PM3405 - REPAIR ANY TORN OR MISSING EVAPORATOR INSULATION	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 8.3.16				

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PM3402 - LUBRICATE ALL HANDLES; MAKE SURE PAINTED AND NOT FROZEN	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM3404 - INSPECT CAR FOR LOOSE OR DAMAGED PIPING	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: RMM 3.3.7.1 FRA 238.303(E) (5)				
PM3330 - INSPECT ALL VALVES, HOSES AND FITTINGS AND REPAIR LEAKS, ABR	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: ASIONS. CRACKS AND HOLES RMM 2.3.18 FRA 238.307(C)(10)				
PM5518 - INSPECT AIR SPRINGS AND PIPING FOR DAMAGE AND LEAKS	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: FRA 238.303(E) (5)				
PM5519 - INSPECT ANGLE COCKS FOR DAMAGE	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5877 - INSPECT MR AND BP HOSES IN PLACE WITH SPARES IN LOC - PIPER	MARCOTJ - JAY MARCOTTE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: FRA 238.307C 4				
PM5032 - ----- COACH CLEANER -----	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5974 - REMOVE ALL TRASH	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5982 - REMOVE ALL TRASH FROM ELECTRICAL LOCKER AND FUSEE BOX	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5983 - WIPE DOWN ALL HANDLES GRAB HANDLES AND HANDHOLDS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5984 - CLEAN SEAT BACKS BOTTOMS AND TABLES	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5985 - SWEEP AND WET MOP FLOORS AND STAIRS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5986 - HAND WASH ALL TOILET ROOM SURFACES AND BUTTONS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5987 - CLEAN AC VENTS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5988 - WIPE DOWN ALL CAB SURFACES CONTROLS AND DISPLAY SCREENS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5989 - CLEAN WINDSHIELD INSIDE AND OUTSIDE	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5990 - CLEAN ALL WINDOWS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM5975 - REMOVE ALL GRAFFITI AND UNAUTHORIZED MATERIALS	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM6349 - ----- BLUE CARD SIGN OFF -----	REIDM - MICHAEL REID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM6342 - BLUE CARD ITEMS 1, 3, 4 AND 7	CIVIELA - ANTHONY CIVIELLO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: 1. BRAKES 3. CAB EQUIPMENT 4. MECHANICAL EQUIPMENT 7. SAFETY APPLIANCES				
PM6343 - BLUE CARD ITEMS 3, 5 AND 7	PHILLIM - MALCOLM PHILLIPS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Procedure: 3. CAB EQUIPMENT 5. ELECTRICAL EQUIPMENT 7. SAFETY APPLIANCES				

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Test Results

Test ID: 745156		Test Date: 04/05/2023		Result: PASS		Comment:
Component	Result	Test Date/Time	Numeric Value Found	Numeric Value Adjust	Qualitative Finding	Line Comment
POWERDOOR-S-005 - TRACTION INTERLOCK TRAINLINE - COMM 11					1 - PASS	
POWERDOOR-S-010 - POWER DOOR TRAINLINES - COMM 14-17					1 - PASS	
POWERDOOR-S-015 - CONDUCTOR INDICATOR TRAINLINES COMM 18-23					1 - PASS	
Test ID: 745157		Test Date: 04/05/2023		Result: PASS		Comment:
Component	Result	Test Date/Time	Numeric Value Found	Numeric Value Adjust	Qualitative Finding	Line Comment
POWERDOOR-SG-005 - DOOR GROUND CHECK					1 - PASS	
Test ID: 745158		Test Date: 04/05/2023		Result: PASS		Comment:
Component	Result	Test Date/Time	Numeric Value Found	Numeric Value Adjust	Qualitative Finding	Line Comment
RELAY-005 - OSR: SERIAL NUMBER & RELAY DATE		06/16/2020 12:51:			B3290481	
RELAY-010 - LRK: SERIAL NUMBER & RELAY DATE		06/16/2020 12:52:			B2990024	
RELAY-015 - SP: SERIAL NUMBER & RELAY DATE		06/16/2020 12:53:			B5089234	
RELAY-020 - LP: SERIAL NUMBER & RELAY DATE		06/16/2020 12:54:			B3790107	
RELAY-025 - RP: SERIAL NUMBER & RELAY DATE		09/24/2020 12:55:			B1090198	
RELAY-030 - PS: SERIAL NUMBER & RELAY DATE		06/16/2020 12:56:			B3290411	
RELAY-035 - VZ: SERIAL NUMBER & RELAY DATE		06/16/2020 12:57:			B5090102	
RELAY-040 - A: SERIAL NUMBER & RELAY DATE		06/16/2020 12:58:			B4686008	
RELAY-045 - R: SERIAL NUMBER & RELAY DATE		06/27/2022 12:59:			B2489239	
RELAY-050 - L: SERIAL NUMBER & RELAY DATE		06/16/2020 13:00:			B0290244	
RELAY-055 - MR: SERIAL NUMBER & RELAY DATE		06/16/2020 13:01:			B0789009	
Test ID: 745159		Test Date: 04/05/2023		Result: PASS		Comment:

Work Order Detail

Work Order: **MBETCH-2023-2099**

Component	Result	Test Date/Time	Numeric Value Found	Numeric Value Adjust	Qualitative Finding	Line Comment
EMERG WINDOW FAIL - EMERGENCY WINDOW FAILURE REASON						

EMERGENCY WINDOW
- EMERGENCY
WINDOW

R1

Test ID: 745836 Test Date: 04/05/2023 Result: PERFORMED Comment:

Component	Result	Test Date/Time	Numeric Value Found	Numeric Value Adjust	Qualitative Finding	Line Comment
FIRE EXT-SC-10 - CENTER OF COACH ABOVE LUGGAGE RACK			2,292,020.00		IN DATE	

WO Notes

Comments:

90 DAY PM

Internal Parts Cost:	
Internal Labor Cost:	\$697.95
Commercial Parts Cost:	\$0.00
Commercial Labor Cost:	\$0.00
Commercial Misc Cost:	\$0.00
Commercial Tax & Markup:	\$0.00
Equipment Usage Costs:	\$0.00
Overhead Costs:	\$0.00
Internal Total:	\$697.95
Commercial Total:	0.00
Work Order Total:	\$697.95

Work Order Detail

MBETCH-2023-2181



Asset ID:	1625 1989 BOMBARDIER CTC-1B COACH		
Repair Location:	MBETCH - BET - COACH REPAIR		
Work Order ID:	MBETCH-2023-2181	Job Status:	WORK FINISHED
Job Type:	REPAIR	Service Status:	RELEASED - RELEASED FOR SERVICE
Projected Completion Date:	04/08/2023 11:32 AM	Title:	MR1 92 DAY- COMPLETED
Priority:	M4 - EVALUATE NEXT OPPORTUNITY		

Non Service Request Tasks

Task: B02-100 - Control And Diagnostic Assembly		Warranty: NO
WAC: RS - RESET	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes RONALD.BR 4-5-2023 11:29AM WHEEL SLIDE BOX IS IN -99- CODE = CLOSET DOOR DENNIS.ASH 4-5-2023 12:14PM RESET BOX TO DEFAULT `00"		
Task: B02-111 - Control Trainline (Mu)		Warranty: NO
WAC: 02 - CLEANED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes RONALD.BR 4-5-2023 11:30AM ALL - MU + COMM PINS NEED CLEANING ----- COVERS NEED LUBE DENNIS.ASH 4-5-2023 12:15PM DONE WITH J PULLANO		
Task: B02-111-0180 - 480 Volts Ac Trainline Screw Base		Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes RONALD.BR 4-5-2023 11:31AM 480 VOLT SCREW RECEPT HAS BROKEN CONNECTOR CLAMP = 1L		
Task: B03-212-0180 - Wheel Slip Sensors		Warranty: NO
WAC: 01 - ADJUSTED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes RONALD.BR 4-5-2023 11:32AM WHEEL SENSOR NEEDS RE GAPPING = AXLE - 3 DENNIS.ASH 4-5-2023 12:16PM DONE WITH J PULLANO		
Task: B03-231 - Hand Brake Undercar Devices		Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes ANTHONY.C 4-5-2023 12:20PM HAND BRAKE PIN AT #1 CONNECTION COTTER PIN IS BROKEN		
Task: B04-112-0060 - Convenience Outlet Cover Plate		Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes RONALD.BR 4-5-2023 11:33AM 3- 120 VOLT OUTLET COVERS BROKEN DENNIS.ASH 4-5-2023 12:17PM DONE WITH J PULLANO		

Work Order Detail

Work Order: **MBETCH-2023-2181**

Task: B04-112-0600 - Battery Box Assembly		Warranty: NO
WAC: 09 - SERVICED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:34AM BATTERY CABLE IS LOOSE = IN BATTERY BOX		
Task: B05-110-0300 - Upholstry Seat Plum F/ Mbta Bomb Car + F/ Use On Mbb		Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:21PM R1 SEAT BACK IS TORN		
Task: B05-110-0330 - Upholstry Seat Port F/ Mbta Bomb Car Note: All Vendors must		Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:21PM L18 SEAT CRASH PAD IS TORN		
Task: B05-110-0360 - Upholstry Seat Navy T-421 (Grain Seville) (Name 383015)		Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:22PM R16 SEAT SMALL CRASH PAD IS TORN		
Task: B05-111-0150 - Spring		Warranty: NO
WAC: 01 - ADJUSTED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:22PM ALL TRAP SPRINGS NEED TO BE ADJUSTED		
Task: B05-111-0450 - Latch; Trap Door		Warranty: NO
WAC: 09 - SERVICED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:23PM L2 TRAP RELEASE SCREWS ARE LOOSE & MISSING		
Task: B05-111-0600 - Keeper		Warranty: NO
WAC: 09 - SERVICED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:23PM ALL VESTIBULE DOOR KEEPERS ARE LOOSE		
Task: B05-120 - Signage		Warranty: NO
WAC: 09 - SERVICED	Reason: C - WEAR AND TEAR	
Work Class: 9 - MR-1 DEFECTS	Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:24PM "CHECK YOUR HAND BRAKE" DECAL IS TORN		

Work Order Detail

Work Order: **MBETCH-2023-2181**

Task: B05-131 - Safety		Warranty: NO
WAC: 02 - CLEANED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:25PM VESTIBULES LLEPM DECALS ARE DIRTY		
Task: B05-131-0120 - Decal - Danger 480 Volts		Warranty: NO
WAC: 02 - CLEANED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:25PM ALL EXTERIOR 480V DECALS ARE DIRTY		
Task: B05-132 - Interior		Warranty: NO
WAC: 09 - SERVICED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:26PM #2 BODY END DOOR INTERIOR COACH NUMBER IS FADED		
Task: B05-151-0090 - Emergency Window Assembly		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:27PM R1 EMERGENCY EXIT WINDOW BEADING NEEDS TO BE PUT BACK INTO PLACE		
Task: B05-151-0120 - Emergency Window Assembly		Warranty: NO
WAC: 02 - CLEANED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:27PM L & R SIDE EMERGENCY ENTRY WINDOWS RED SEALS ARE DIRTY		
Task: B05-162-0060 - Vertical Diaphragm		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:28PM #2 END DIAPHRAGM L SIDE VERTICAL PHONELIC PAD IS BROKEN		
Task: B05-163-0030 - Coupler; Tight Lock; Complete Cast Steel		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:30PM #1 END COUPLER LEVER LOCK LIFTER ROD IS BENT NOT ALLOWING LOCK LIFTER TO DROP DOWN INTO PLACE		
Task: B07-112-1350 - Door Assy Body End Collision 028 Bomb Series Ctc For Mbta		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:31PM #1 END COLLISION POST DOOR "EMERGENCY EXIT" DECAL IS MISSING		

Work Order Detail

Work Order: **MBETCH-2023-2181**

Task: B08-111-0210 - Pedestal Liner		Warranty: NO
WAC: 09 - SERVICED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
ANTHONY.C 4-5-2023 12:32PM L3 PEDESTAL LINER ALL WELDS ARE BROKEN & PEDESTAL LINER IS RESTING ON BINDER PLATE		
Task: B08-113-0120 - Ground Strap - Truck To Axle - Trucks 1+2		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:34AM GROUND STRAP BROKEN = AXLE - 1		
Task: B10-111-0120 - Buzzer Ctc Overhead		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:35AM FRONT BUZZER LOW VOLUME		
Task: B12-111 - Lighting System Assembly		Warranty: NO
WAC: 09 - SERVICED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:37AM ALL - INTERIOR LIGHT LENS NEED CLEANING ---- BULBS MAY NEED RELAMPING AS NEEDED ----- 2- LIGHTS OUT		
Task: B12-111-0480 - Lens Light Vestibule F/Vestibule Fixture See 24 891 01243		Warranty: NO
WAC: 09 - SERVICED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:38AM VESTIBULE + STEP LIGHT LENS NEED CLEANING = BOTH ENDS ----- REAR VEST. LIGHT OUT		
Task: B12-112 - Electrical Locker Lighting		Warranty: NO
WAC: 09 - SERVICED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:39AM ELECTRICAL CLOSET LIGHT IS MISSING GLOBE		
Task: B12-113-0030 - Lamp Holder		Warranty: NO
WAC: 09 - SERVICED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:40AM EMERGENCY LIGHT FIXTURES HAS OBSTRUCTION ON LENS = FRONT CAB - BOTH		
Task: B12-115-0060 - Lens Amber F/Indicator Light Assy (24 999 70610) On		Warranty: NO
WAC: 12 - REPLACED Work Class: 9 - MR-1 DEFECTS	Reason: C - WEAR AND TEAR Comments:	
Task Notes		
RONALD.BR 4-5-2023 11:41AM BRAKE INDICATOR LIGHTS NEED NEW BULBS = BOTH SIDES DENNIS.ASF 4-5-2023 12:17PM DONE WITH J PULLANO		

Work Order Detail

Work Order: **MBETCH-2023-2181**

Task: B12-120 - Platform Lighting					Warranty: NO	
WAC: 02 - CLEANED		Reason: C - WEAR AND TEAR				
Work Class: 9 - MR-1 DEFECTS		Comments:				
Task Notes						
RONALD.BR 4-5-2023 11:42AM ALL - PLATFORM LIGHT LENS NEED CLEANING						
Task: B12-123 - Ditch Light					Warranty: NO	
WAC: 02 - CLEANED		Reason: C - WEAR AND TEAR				
Work Class: 9 - MR-1 DEFECTS		Comments:				
Task Notes						
RONALD.BR 4-5-2023 11:43AM DITCH LIGHT LENS NEED CLEANING = BOTH SIDES						
DENNIS.ASI 4-5-2023 12:16PM DONE WITH J PULLANO						
Task: C17-000 - General Coach Tasks Group					Warranty: NO	
WAC: -		Reason: C - WEAR AND TEAR				
Work Class: 2 - NON-SCHEDULED		Comments:				
Parts		Qty Issued	Iss Price	Tax & Markup	Total Cost	
2400RRSA11-1 - SEAT; BOMB. TRIPLE BACK		1.00	206.05	0.00	206.05	
Removed Serial #:	Serial #:					
2400RRSA41-1 - CRASH PAD; CRASH PAD; HEAD REST SINGLE; L/H; W/ PULL HANDLE; F/600 BOMBS		1.00	152.20	0.00	152.20	
Removed Serial #:	Serial #:					
2424007889-0 - PLATE; PLATE; WEAR; SIDE L.& R. SIDES OF DELAWARE		1.00	1,196.87	0.00	1,196.87	
Removed Serial #:	Serial #:					
2470301251-0 - COVER; COVER; WEATHER RESISTANT RECPT F/ PULLMAN CARS ..SINGLE RECEIPT		4.00	5.20	0.00	20.80	
Removed Serial #:	Serial #:					
2471404847-0 - HOOK; HOOK; HOOK ASSEMBLY FOR UNCOUPLING DEVICE; ROTEM COACH; STANRAIL/ SAMUEL ROLL FORM # 11668		1.00	50.00	0.00	50.00	
Removed Serial #:	Serial #:					
2499963111-0 - BELL; BELL F/ AIR SIGNAL ON MBTA F-40`S ALARM;F40PH-3C		2.00	161.16	0.00	322.32	
Removed Serial #:	Serial #:					
2499986013-0 - SIGN; SIGN EMERGENCY EXIT #13 F/ MBTA COACH		1.00	14.95	0.00	14.95	
Removed Serial #:	Serial #:					
2599905007-0 - MOTOR; MOTOR ELECTRIC 00.125 HP 3160 RPM		1.00	110.00	0.00	110.00	
Removed Serial #:	Serial #:					
Task: C17-210 - First Aid Kit					Warranty: NO	
WAC: 12 - REPLACED		Reason: C - WEAR AND TEAR				
Work Class: 9 - MR-1 DEFECTS		Comments:				
Task Notes						
ANTHONY.C 4-5-2023 12:33PM FIRST AID KIT & "OUT OF SERVICE" DECALS ARE MISSING						

Overhead

Small Parts - Labor: **0.00**

Tools: 0.00

Total Overhead Costs: **0.00**

Small Parts - Parts: **0.00**

Overhead Costs: **0.00**

Work Order Detail

Work Order: **MBETCH-2023-2181**

Messages

Other Open Work Orders

Work Order Number	Type	Status	Scheduled	Reason	Service
Mrdvyd-2020-4886	Repair	Pending		Mup	
Unit Is 43 Days Late For Inspection Service Ctc45-Pm - Due Date 02/24/2023					
Unit Is 990 Days Late For Inspection Service Sand Ctc - Due Date 07/22/2020					
Unit Is 181 Days Late For Inspection Service Coach-Cln-A - Due Date 10/09/2022					
Unit Is 976 Days Late For Inspection Service Coach-Cln-Ex - Due Date 08/05/2020					
Unit Is 976 Days Late For Inspection Service Coach-Cln-C - Due Date 08/05/2020					
Unit Is 23 Days Late For Inspection Service Hvac-Sponge - Due Date 03/16/2023					
Component Automatic People Counter (Apc) Is Under Warranty - Expires 04/12/2023					

WO Notes

Comments:

MR1 92 DAY

Internal Parts Cost:	\$2,073.19
Internal Labor Cost:	
Commercial Parts Cost:	\$0.00
Commercial Labor Cost:	\$0.00
Commercial Misc Cost:	\$0.00
Commercial Tax & Markup:	\$0.00
Equipment Usage Costs:	\$0.00
Overhead Costs:	\$0.00
Internal Total:	\$2,073.19
Commercial Total:	0.00
Work Order Total:	\$2,073.19

EMERGENCY LIGHTING DURATION TEST RECORD

All Single-Level Coaches



90-DAY PM



180-DAY PM

Date Tested: 4/5/23 Time Test Began: (h) 10 (m) 30A Time Test Ended: (h) 11 (m) 30A

Coach #: 1625 Employee #: 3325 Employee Signature: [Signature]

Ensure emergency ballasts have been charged for 30 minutes.

At the end of 60 minutes in operation, the emergency lights were (check one):

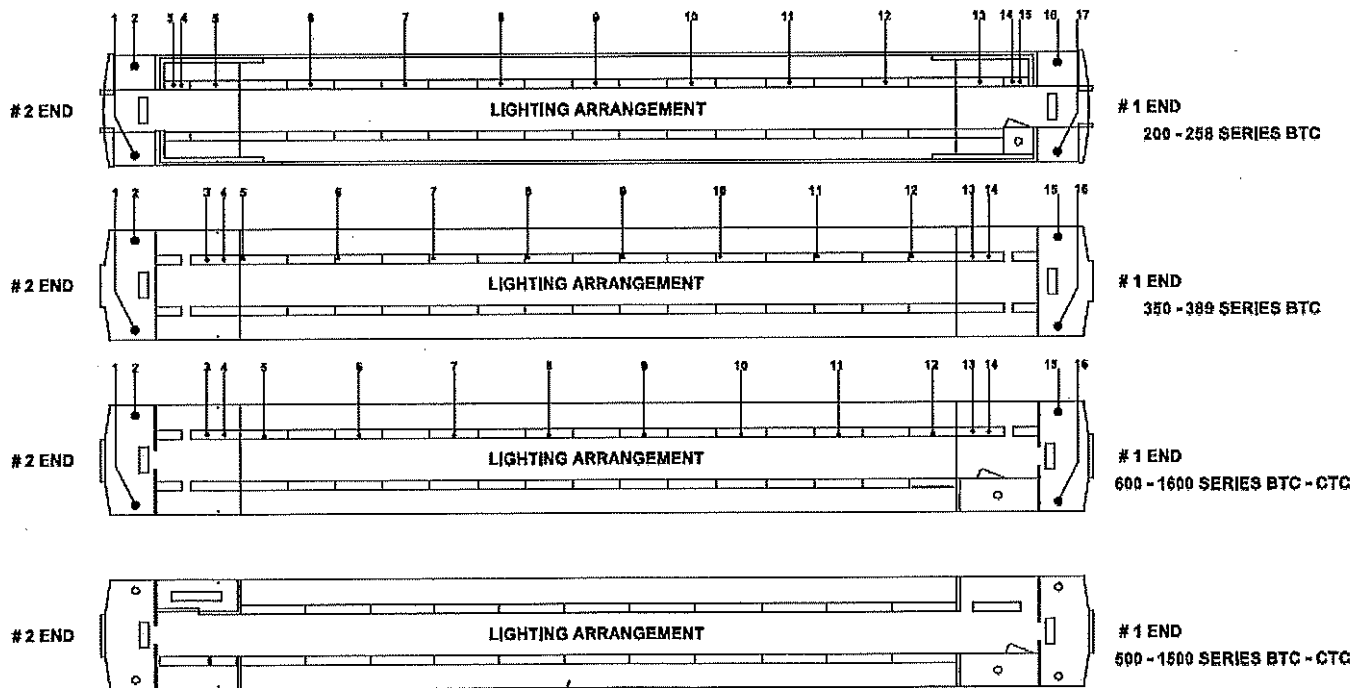


All emergency lighting is functioning properly.

Duration: 60 minutes
(How long lighting functioned)



Record any failures and ballast replacements on MR1 form.



COMMENTS: * All Good

NOTE: Refer to instructions for performing tests on Page 2 if needed.

Keolis

MAINTENANCE ANALYSIS PROGRAM
COACH BATTERY CELL VOLTAGE

COACH NO. 1625

LOCATION: CH

DATE: 4/5/23

NOTE: OPEN BATTERY KNIFE SWITCH BEFORE MEASURING BATTERY CELL VOLTAGES

REAR LEFT	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
FRONT	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

REAR RIGHT	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
FRONT	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

NOTE HERE IF BATTERY WATERING IS NECESSARY

YES ☐

NO ☒

Each box represents one cell in one battery.
5 cells per battery
10 batteries per coach.

Inspector: *[Signature]*
INSPECTOR

Foreman in Charge: *[Signature]*
FOREMAN IN CHARGE

Officer: *[Signature]*
OFFICER

Keolis

HVAC PM Inspection Sheet
For Kawasaki, Bombardier, Pullman, MBB Coaches Only

Coach No. 1625

Electrician D. Amos

EMP. ID# 3845

Date: 040623

Carman

EMP. ID#

HVAC Electrician

- o Replace all Return and Fresh air filters A and B ends
- o Inspect system for leaks
- o Inspect equipment for loose or missing hardware
- o Inspect equipment for proper grounding
- o Run diagnostic check, Verify proper operation of:

Completed

Completed

Completed

Completed

- Cooling

- Check operation of all contactors & overloads
- Compressor(s), Blowers, & Condenser motors
- Condenser & Evaporator Coils + Related Equipment

Verified

Verified

Verified

- Heating

- Contactors Overhead/Floor heat

Verified

- Protective Heaters

- Threshold heaters
- 900 series Door pocket heaters

Verified

Verified

- Thermal overload protection

- Klixons

Verified

- Fault log

- Review fault logs

Completed

- o Conduct Acid test (Kit #QT200)

Verified Negative

Carman

- o Clean return air grille A and B ends
- o Replace Bad air sponge A and B ends
- o Clean all air vents along interior lights

Completed

Completed

Completed

KEOLIS

REFRIGERANT USAGE AND LEAK REPAIR RECORD

The EPA, in accordance with Section 608 of the CLEAN AIR ACT, requires record keeping of refrigerant usage and leak repairs for comfort cooling systems with a charge of 50 pounds or greater. All single level coaches have approximately a 55 pound charge. Kawasaki coaches have a 33 pound charge in each end. Any leak with an annual leak rate greater than 15% of system capacity must be repaired.

1418007931

Coach 1625 Date 040623 Location BET PM 2

Defect _____

 Repair _____

Amount of Refrigerant recovered from system _____
 Amount of recovered Refrigerant reinstalled in system _____
 Amount of new Refrigerant charged to system _____
 Amount of Refrigerant drawn from stores _____

Single-level								Bi-level								Alstom Bi-level	
55# SYSTEM								VSRS 33# SYSTEM								Alte 13# Circuits	
#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
1	1.8	12	21.8	23	41.8	34	61.8	45	81.8	1	3.0	12	36.4	23	69.7	1	8
2	3.6	13	23.6	24	43.6	35	63.6	46	83.6	2	6.1	13	39.4	24	72.7	2	15
3	5.5	14	25.5	25	45.5	36	65.5	47	85.5	3	9.1	14	42.4	25	75.8	3	23
4	7.3	15	27.3	26	47.3	37	67.3	48	87.3	4	12.1	15	45.5	26	78.8	4	31
5	9.1	16	29.1	27	49.1	38	69.1	49	89.1	5	15.2	16	48.5	27	81.8	5	38
6	10.9	17	30.9	28	50.9	39	70.9	50	90.9	6	18.2	17	51.5	28	84.8	6	46
7	12.7	18	32.7	29	52.7	40	72.7	51	92.7	7	21.2	18	54.5	29	87.9	7	54
8	14.5	19	34.5	30	54.5	41	74.5	52	94.5	8	24.2	19	57.6	30	90.9	8	62
9	16.4	20	36.4	31	56.4	42	76.4	53	96.4	9	27.3	20	60.6	31	93.9	9	69
10	18.2	21	38.2	32	58.2	43	78.2	54	98.2	10	30.3	21	63.6	32	97.0	10	77
11	20.0	22	40.0	33	60.0	44	80.0	55	100.0	11	33.3	22	66.7	33	100.0	11	85
																12	92
																13	100

Has the system been charged in the past 12 months? _____
 If yes, what was the percentage of system capacity charged? _____
 What is the percentage of system capacity charged for this repair? _____
 Total percentage charged past 12 months _____
 D. Antine _____
 Technician Foreman

Copies of this form are to go into the coach file and into the Freon control file.

MBTA COMMUTER RAIL
HVAC SYSTEM INSPECTION for Single Level Coaches

Bombardier Coaches 600-653, 1600-1652 (Faiveley A/C System R-22)
 Bombardier Coaches 350-389, (Stone Safety A/C System R-22)
 MBB Coaches 500-532, 1500-1533 (Sigma A/C System R-22)
 Pullman Coaches 200-257 (Stone Safety A/C System R-22)

	SIGNATURE	EMP. ID #
ELECTRICIAN	<u>D. Antonino</u>	<u>3895</u>
LABORER	_____	_____
CARMEN	_____	_____
COACH CLEANER	_____	_____

CAR NUMBER: 1435

DATE COMPLETED: 04/06/23

REQUIRED TOOLS: Oil Test Kit TA-1, Fluke Multieter with clamp-on Ammeter and thermocouple attachments, Megohmmeter, Electronic Leak Detector, HVAC Manifold Gauges, Bristle Brush, Rubber Mallet, Step ladder

WARNING:	ALL SAFETY PRECAUTIONS AND EQUIPMENT TAG OUT PROCEDURES MUST BE STRICTLY ADHERED TO. FOLLOW SPECIFIC PROCEDURE INSTRUCTIONS FOR DETERMINING IF EQUIPMENT IS TO BE ENERGIZED PRIOR TO STARTING ANY TEST.
-----------------	---

	PASS	FAIL
1. Verify refrigerant level in lower sight glass of receiver tank is visible. If none visible refer to leak detection/repair procedure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Inspect using visual and electronic leak detector for Freon leaks and traces of oil at pipe connections, fittings, valves, compressor, condenser coils, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Vacuum air intake compartment and check evaporator pan and drains for water flow.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Wash return air grill.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Check all motors and mounts for securement and deterioration/damage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Inspect air flow boots for integrity and proper attachment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Inspect all contactors, that control compressor, condenser fan, heaters, and blower motors.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Blow all control boxes with air to clean any debris from them.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Clean dirt and dust from temperature sensors and temperature control units. Check for proper securement.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Replace <u>air filters</u> and Bad Odor Sponges.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PASS FAIL

11. Megger test compressor, condenser fan, and blower motors for grounds with Megohmmeter.

☒ ☐

12. Test resistance values of all overhead (30-80 Ω 's), and floor heaters (30-50 Ω 's). Megger test from heater circuit to ground ($>2M\Omega$). See Chart in appendix A (May through November only)

☒ ☐

FH3 has open thermostat

13. Test resistance values of all protective heaters (10 to 50 Ω 's). Megger test from heater circuit to ground ($>2M\Omega$).

☒ ☐

14. Inspect and test operation of air flow switch and overhead heat thermostat (Klixon).

☒ ☐

15. Inspect all motors and record current draw on all phases.

☒ ☐

EVAPORATOR BLOWER

MOTOR #1
Phase A 1.5
Phase B 1.5
Phase C 1.5

CONDENSER FAN MOTOR #1
Phase A 2.4
Phase B 2.4
Phase C 2.7

COMPRESSOR MOTOR
Phase A 22.4
Phase B 21.4
Phase C 22.1

EVAPORATOR BLOWER

MOTOR #2
Phase A 1.4
Phase B 1.4
Phase C 1.5

CONDENSER FAN MOTOR #2
Phase A 2.7
Phase B 2.7
Phase C 2.7

16. Check for proper rotation and air flow of condenser fan and blower motors.

☒ ☐

17. Check thermal expansion valve bulbs for proper securement.

☒ ☐

PUT HVAC SYSTEM ON AUTOMATIC AND CHECK FOR PROPER OPERATION

18. Between Nov 1st through May 1st apply manifold gauges to high and low sides of system, apply diagnostic equipment (TEST BOX). Operate the system and record Freon pressures.

☐ ☐

No. 1 END		No. 2 END	
Line valve THX	Modulation THX	Line valve THX	Modulation THX
<u>Low Side</u>	<u>Low Side</u>	<u>Low Side</u>	<u>Low Side</u>
Suction Pressure _____	Suction Pressure _____	Suction Pressure _____	Suction Pressure _____
Saturation Temp. _____ (from chart)	Saturation Temp. _____ (from chart)	Saturation Temp. _____ (from chart)	Saturation Temp. _____ (from chart)
Suction Temp _____	Suction Temp _____	Suction Temp _____	Suction Temp _____
SUPERHEAT _____	SUPERHEAT _____	SUPERHEAT _____	SUPERHEAT _____
High Side			
Ambient Temperature _____		Discharge Pressure _____	

PASS FAIL

19. Charge system as necessary to maintain Freon level 1/2 full on lower sight glass. (Nominal: 270 - 275 psig)

☒ ☐

N/A

20. Cover condenser coils with cardboard to cause #2 condenser fan to operate. (Nominal: 250 psig)

☒ ☐

START PRESSURE: 260#

21. Restrict compressor suction valve to lower system pressure, until shutdown. (Nominal: 20 to 25 psig)

☒ ☐

SHUTDOWN PRESSURE: 08#

REOPEN SUCTION VALVE

22. Block condenser completely to cause system to go into modulation, if necessary heat coach prior to attempting modulation to cause a higher pressure. (Nominal: 380 - 400 psig)

☒ ☐

MODULATION PRESSURE: 460#

Observe that modulation occurs and continues to operate in modulation until a pressure of 330 +/-10 psig is reached. (When modulation occurs you will see a sudden drop in pressure around 400 psig).

23. Block condenser completely to cause system to shutdown on high pressure, if necessary heat coach prior to attempting shutdown to cause a higher pressure. (Nominal: 425 - 430 psig)

☒ ☐

SHUTDOWN PRESSURE: 425#

CAUTION: DO NOT CONTINUE IF PRESSURE GOES ABOVE 435 psig.

NOTE: Do not use discharge valve to raise pressure.

24. Record the loading pressure and the unloading pressure for each head. (place a heat load on the coach and use suction valve)

☒ ☐

1st stage unloader LOADED: 62#
(Nominal: 63 - 65 psig)

1st stage unloader UNLOADED: 53#
(Nominal: 51 - 55 psig)

2nd stage unloader LOADED: 68#
(Nominal: 68 - 70 psig)

2nd stage unloader UNLOADED: 59#
(Nominal: 56 - 60 psig)

25. Check system for moisture at the filter dryer sight glass indicator, if indicator is pink in color, or the sight glass indicates moisture, checked failed. If failed change the filter/dryer.

☒ ☐

26. Between Nov 1st through May 1st take oil sample (Acid Test) use test kit. Follow the oil sample kit instructions to determine condition of the compressor oil and record result.

☐

MARGINAL

☒

PASS

☐

FAIL

☐

N/A

27. Wash condenser compressor unit and associated piping.

☒ ☐

PASS

FAIL

- 28 Using the DTE (Diagnostic Test Equipment) raise the temperature in the coach so that Full Cool will be called for. ($>75^{\circ}\text{F}$)
- 29 Remove the DTE and observe that the coach responds properly moving from Full Cool to Partial Cool. Verify that the modulation valves deenergize. (Approx. 74°F)
- 30 When the Coach gets cooler Reheat is energized. Verify 1st stage OH heat contactors close. (Approx. 72°F)
- 31 The Coach should continue to cool until Partial cool drops out. Verify Compressor contactor is Open. (Approx. 71°F)

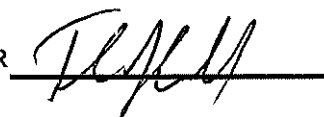
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Reviewed by

FOREMAN



MANAGER



APPENDIX A

Resistance Chart

200	OH - 1st Stage	75+- 2.5 Ω
	OH - 2nd Stage	47.5+- 2.5 Ω
	FH - 1st Stage	32.5 +- 2.5 Ω
	FH - 2nd Stage	Disabled
300	OH - 1st Stage	75+- 2.5 Ω
	OH - 2nd Stage	47.5+- 2.5 Ω
	FH - 1st & 2nd Stage	52.5 +-2.5 Ω
500	OH - 1st Stage	67.5 +- 2.5 Ω
	OH - 2nd Stage	35 +- 5 Ω
	FH - 1st & 2nd Stage	35 +- 5 Ω
600	OH - 1st Stage	57.5 +- 2.5 Ω
	OH - 2nd Stage	37.5 +- 2.5 Ω
	FH - 1st & 2nd Stage	32.5 +- 2.5 Ω

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MBTA COMMUTER RAIL
COACH WHEEL SLIDE REPORT

VEHICLE NO: 1625

DATE: 4-8-23

LOCATION: BET CH

WHEEL SLIDE CONTROL UNIT:



Wheel Slide Control Unit System
performance test

COMMENTS:



Electronic panels, cards, wires, test
lights and fuses



Speed sensor resistance check

#1 989
#2 1051
#3 1000
#4 980

Signature:

R. Brown

PNEUMATICS:



A & B valve operation

A ✓
B ✓

Signature:

COMMENTS:

[Signature]

SPEED SENSORS AND CABLES:



Speed sensor cables



Proper sensor



Speed sensor gap



gear

Signature:

COMMENTS:

R. Brown

DEFERRED WORK

SEVERITY CODES

A - HOLD CAR
B - SCHEDULE FOR REPAIR
C - MONITOR

RECOMMENDED
SEVERITY CODE

ITEM

SYSTEM STATUS:



FUNCTIONING



NOT FUNCTIONING

Foreman
Signature:

Ana Avetisyan

Keolis

MBTA COMMUTER RAIL
COACH WHEEL SLIDE REPORT

VEHICLE NO: 1625

DATE: 04/05/23

LOCATION: BET

WHEEL SLIDE CONTROL UNIT:



Wheel Slide Control Unit System
performance test

COMMENTS:



Electronic panels, cards, wires, test
lights and fuses



Speed sensor resistance check

#1

#2

#3

#4

82
1005
1000
710

Signature:

COMMENTS:

PNEUMATICS:



A & B valve operation

A

B

VoK
VoK

Signature:

A. Ciriello 1041

SPEED SENSORS AND CABLES:



Speed sensor cables



Proper sensor



Speed sensor gap



gear

Signature:

COMMENTS:

DEFERRED WORK

SEVERITY CODES

A - HOLD CAR
B - SCHEDULE FOR REPAIR
C - MONITOR

RECOMMENDED
SEVERITY CODE

ITEM

SYSTEM STATUS:



FUNCTIONING

Foreman
Signature:



NOT FUNCTIONING

[Signature]

<u>Keolis</u>	<h2 style="margin: 0;">COACH WHEEL REPORT</h2>	
Coach #: <u>1625</u>		

WHEEL MEASURE

Test Date: 04/05/23

POS.	FLANGE HEIGHT [LIMIT: 1 7/16"]	FLANGE THICKNESS [LIMIT: 1"]	RIM THICKNESS [LIMIT: 1 1/18"]	POS.	FLANGE HEIGHT [LIMIT: 1 7/16"]	FLANGE THICKNESS [LIMIT: 1"]	RIM THICKNESS [LIMIT: 1 1/18"]
L1	1 1/8"	1 5/16"	1 5/16"	R1	1 1/8"	1 5/16"	1 5/16"
L2	1 1/8"	1 5/16"	2 1/16"	R2	1 1/8"	1 5/16"	2 1/16"
L3	1 1/8"	1 5/16"	1 5/16"	R3	1 1/8"	1 5/16"	1 5/16"
L4	1 1/8"	1 5/16"	2 1/16"	R4	1 1/8"	1 5/16"	2"

Comments:

R1, R2, R3 wheels have thermal cracks - GONE FOR W/T

TOP OF RAIL CLEARANCE HEIGHT

COUPLER HEIGHT (MAX. 34 1/2" MIN. 32 1/2")		PILOT HEIGHT (MAX. 6" MIN. 4")		FLOOR HEIGHT (51 in ±1.0")	
FRONT	32 3/4"	FRONT	5 3/8"	1R 50 3/4"	1L 51 1/4"
REAR	33 1/16"			2R 50 1/2"	2L 50 3/4"

AIR SPRING VERIFICATION INSPECTION

AIR SPRING HEIGHT				AIR SPRING PRESSURE	NO. 1 END
L1 9 7/16"	L2 9 1/4"	R1 9 1/16"	R2 9 1/4"		72 LBS.

SINGLE CAR TEST PRESSURES

ASP		BCP	FULL SERVICE	EMERGENCY
DEFLATED	0	DEFLATED	62	76
AW0	67	AW0	65	76
AW3	85	AW3	78	87

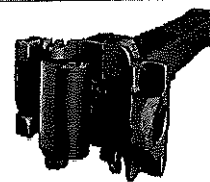
Employee: A. Pinillo # 1041

Foreman: [Signature] # 2953

Officer: [Signature] # 3080

KEOLIS

COACH COUPLER INSPECTION REPORT

Coach #: 1625

For any maintenance and/or replacement

Task	Description	Other reference	Front	Rear
	Inspect Coupler to Include:			
1.	Visually Inspect Coupler for Proper Coupling, damage and Body Integrity	FRA-238.303(e)(3) APTA PR-M-RP-002-98	✓	✓
2.	Gauge Coupler for 31000 34100-1 34100-2A (if required) 32600 34101-4 44250-5	APTA PR-M-RP-002-98	✓	✓
3.	Inspect Coupler lock + lock drop/ and inspect for proper coupling CHECK "TELLTALE" IS CLEAR, NO OBSTRUCTION.	APTA PR-M-RP-002-98	✓	✓
4.	Inspect Coupler Anti-Creep+ Draft Gear for Excessive Wear, Loose or Cracked Welds in Pocket	FRA-238.303(e)(3) APTA PR-M-RP-002-98	✓	✓
5.	Coupler Lock Lift (Special Lock) lever and Operating Rod Eye Clearance.	APTA PR-M-RP-002-98	✓	✓
6.	Inspect Coupler Free Slack	APTA PR-M-RP-002-98	✓	✓
7.	Inspect Coupler Left Level Coupler as Required, Measure Height+ Record on Document# HRU-3	HRU-3	✓	✓
8.	Perform Coupler Carrier Inspection	FRA-238.303(e)(3) APTA PR-M-RP-002-98	✓	✓
	Record all Defects on Form MR1			

Date: 04/05/23Employee: A. CivilelloEmployee ID: 1041Employee Signature: A. CivilelloForeman: [Signature]Foreman Signature: [Signature]

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PHW-ACES MAP 8

Maintenance Analysis Program

Advanced Civil Speed Enforcement System Inspection

(Instructions On Reverse Side)

1.) Vehicle I.D.: <u>1625</u>	Railroad: <u>MBTA</u>	<input checked="" type="checkbox"/> Periodic (Circle One)	<input type="checkbox"/> Failure
Location: <u>BET</u>	Date: <u>4-5-23</u>	Time: <u>7:30</u> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	
2.) Are the Air Brake Forms In Date?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
3.) ACSES Magnet Valve 3 year expiration date OK until next inspection?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
4.) Performed and Passed the Transponder Test?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5.) Visual Inspection			
<input checked="" type="checkbox"/> Antenna OK	<input checked="" type="checkbox"/> CTV OK	<input checked="" type="checkbox"/> Speed Sensor OK	<input checked="" type="checkbox"/> Roof Antenna OK
6.) Wheel Diameter Calibration			
Measured <u>31</u> Inputted <u>31</u>			
7.) <input type="checkbox"/> Circuit Board LED Operation OK	8.) Brake Pipe Pressure in Penalty <u>72</u> PSI.		
9.) Self-Test Segments (7 Steps)			
1. <input checked="" type="checkbox"/> OK 2. <input checked="" type="checkbox"/> OK 3. <input checked="" type="checkbox"/> OK 4. <input checked="" type="checkbox"/> OK 5. <input checked="" type="checkbox"/> OK 6. <input checked="" type="checkbox"/> OK 7. <input checked="" type="checkbox"/> OK			
10.) <input checked="" type="checkbox"/> Event Log Downloaded OK		11.) <input type="checkbox"/> Data Elements Recorded OK	
12.) <input checked="" type="checkbox"/> Computer Software Version Revision Level - Version T4.5			
13.) <input checked="" type="checkbox"/> Onboard Configuration Check <input checked="" type="checkbox"/> Railroad = MBTA <input checked="" type="checkbox"/> Locomotive Number = Enter #			
<input checked="" type="checkbox"/> Proper Vehicle Type <input checked="" type="checkbox"/> Actual Wheel Diameter <input checked="" type="checkbox"/> Max Vehicle Speed Set to 90mph			
<input checked="" type="checkbox"/> Proper Train Type - "C" for all equipment except 3248, 3249 and 904 Switchers which should be "E"			
14.) Software Configuration: Main (7-8) Rev: <u>8</u> Aux IO (0) Rev: <u>0</u> Tach1 (3-4) Rev: <u>4</u>			
Comm (2) Rev: <u>1</u> Config (1) Rev: <u>1</u> ADU1 (1) Rev: <u>1</u> Datalog (Recorder) (3) Rev: <u>0</u>			
15.) Electrician Signature: <u>[Signature]</u>		Foreman Signature: <u>[Signature]</u>	
EMP# - <u>10273</u>		EMP# - <u>2983</u>	

KEOLISControl Coach 1500 and 1600 Cab Signal Test
Data Sheet and Procedure

1. CONTROL COACH NO. <u>1628</u>		LOCATION: <u>13E</u>		DATE: <u>4-5-23</u>		TYPE OF INSPECTION (circle one) <input checked="" type="radio"/> Periodic <input type="radio"/> 45 Day <input type="radio"/> Road Failure																	
2. VISUALLY INSPECT ALL CAB SIGNAL COMPONENTS <input type="checkbox"/> (CHECK BOX IF NO ISSUES)						4. INSURE RELAY DATES ARE GOOD FOR THE NEXT 60 DAYS YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>																	
3. RECEIVER BAR HEIGHT (6-1/2" TO 9-1/2")		ENGINEER SIDE <u>8 1/2</u>		FIREMAN SIDE <u>8 1/2</u>		IF NO, REPLACE THE AFFECTED RELAYS AND RECORD ALL DATES IN THE STEP 5 AND ALL SERIAL NUMBERS IN REMARKS																	
5. LIST DATES OF ALL VITAL RELAYS:						A: <u>6-20</u> R: <u>6-22</u> L: <u>6-20</u> MR: <u>6-20</u> VZ: <u>6-20</u>																	
OSR: <u>6-20</u>		PS: <u>6-20</u>		SP: <u>6-20</u>		LP: <u>6-20</u>		RP: <u>9-20</u> LRK:															
6. ATC MAGNET VALVE		DATE: <u>6-22</u>		3502 SELF TEST PCB		DATE: <u>11/23</u>		PENALTY BRAKE PRESSURE SWITCH															
						DATE: <u>6-22</u>		DATES MUST COMPLY FOR NEXT 60 DAYS															
7. INSULATION RESISTANCE MEASURED IN OHMS WIRE/TERMINAL TO CARBODY GROUND 1 MEGAOHM MAXIMUM RESISTANCE (DO NOT USE MEGGER)						8. SYSTEM VOLTAGE 32VDC +/- 1VDC - TERM 50 & 51 <u>32</u> VDC																	
KAWASAKI COACH			MBB COACH			BOMBARDIER COACH			FOUND		LEFT												
1			1			1			<u>OL</u>		<u>OL</u>												
2			2			2			<u>OL</u>		<u>OL</u>												
8			8			8			<u>OL</u>		<u>OL</u>												
9			9			9			<u>OL</u>		<u>OL</u>												
14			14			14			<u>OL</u>		<u>OL</u>												
15			15			15			<u>OL</u>		<u>OL</u>												
50			50			50			<u>OL</u>		<u>OL</u>												
51			51			51			<u>OL</u>		<u>OL</u>												
92			88			88			<u>OL</u>		<u>OL</u>												
94			89			89			<u>OL</u>		<u>OL</u>												
9. MASTER RELAY PICKUP CURRENT (1.3-1.6AMPS RAIL CURRENT)									FOUND			LEFT											
									<u>1.5</u>			<u>1.5</u>											
10. PENALTY APPLICATION TIMING									<u>6</u>			<u>6</u>											
11. ACKNOWLEDGER TIMING									<u>6</u>			<u>6</u>											
12. RECEIVER BAR AC VOLTAGE TERMINALS 1&2						LOW*			<u>99.10</u> ACV			<u>99.10</u> ACV											
						HIGH			<u>210.9</u> ACV			<u>210.9</u> ACV											
13. DEPARTURE TEST SWITCH IN 100HZ POSITION, TERM 1&2						LOW*			<u>99.10</u> ACV			<u>99.10</u> ACV											
						HIGH			<u>210.9</u> ACV			<u>210.9</u> ACV											
14A. WHEEL DIAMETER OF AXLE 2									<u>31</u>			<u>31</u>											
14B. WHEEL WEAR SETTING									<u>31</u>			<u>31</u>											
15. CONDITION OF ALL ASPECT AND ADJ LIGHTS AND ALARM <input type="checkbox"/> OK <input type="checkbox"/> REPLACED AND/OR REPAIRED																							
16. SPEED GOVERNOR BOARD PART AND SERIAL NUMBER USED ON THIS COACH						P/N <u>164516533201</u> S/N <u>4289007</u>																	
17. DECODING RELAY CURRENT WITH 2 AMPS IN RAIL (LOOP)						MINIMUM OF 48 MA.						FOUND						LEFT					
												<u>1.5</u> MA.						<u>65</u> MA.					
"A" RELAY IN 180 CODE																							
"R" RELAY IN 120 CODE												<u>65</u> MA.						<u>65</u> MA.					
"L" RELAY IN 75 CODE												<u>65</u> MA.						<u>65</u> MA.					
						MAXIMUM OF 5 MA.						FOUND						LEFT					
												<u>1.5</u> MA.						<u>1.5</u> MA.					
"A" RELAY IN 120 CODE																							
"A" RELAY IN 75 CODE												<u>1.5</u> MA.						<u>1.5</u> MA.					
"R" RELAY IN 75 CODE												<u>.5</u> MA.						<u>.5</u> MA.					
20. TRAIN CONTROL CUT-OUT SEAL NUMBER <u>087246</u>																							
EVENT RECORDER CUT-OUT SEAL NUMBER <u>087271</u>																							
TRAIN CONTROL COVER SEAL NUMBER OR LOCK <u>100K</u>																							
21. PERSON CONDUCTING THE TEST:																							
SIGNATURE: <u>[Signature]</u>																							
TITLE: <u>E/ELICIAN</u>																							
For "Failure Tests", Fax completed document to 617-222-8540 with an explanation of the failure in the comments section of the back side of this document.																							

KEOLIS

AUTOMATIC TRAIN CONTROL RELAY CHECK

LOCOMOTIVE NO: 1625

DATE: 4-5-23

RELAYS	SERIAL NUMBER	RELAY TEST DATE
OSR	<u>B3290481</u>	<u>6-16-20</u>
LRK	<u>B2990024</u>	<u>6-16-20</u>
SP	<u>B5089234</u>	<u>6-16-20</u>
LP	<u>B3790107</u>	<u>6-16-20</u>
RP	<u>B1090198</u>	<u>9-24-20</u>
PS	<u>B3290411</u>	<u>6-16-20</u>
VZ	<u>B5090102</u>	<u>6-16-20</u>
A	<u>B4686008</u>	<u>6-16-20</u>
R	<u>B2489239</u>	<u>6-27-22</u>
L	<u>B0290244</u>	<u>6-16-20</u>
MR	<u>B0789009</u>	<u>6-16-20</u>

R. Brown
Electrician

A. Archin
Foreman

Speed and Event Recorder Test 1600 Series Coaches With Quantum Recorder

Instructions on the reverse side: Coach # 1625

1. Axle 1 Wheel Size: 31

2. Wheel Sensor Gap checked and is in specified limits: Yes ☐ No ☐ (Circle One)

Section A		Speed Testing Chart	
Speed to Test	Frequency	Event Recorder Reading	
20 mph	<u>367</u> Hz	<u>20</u>	mph
40 mph	<u>722</u> Hz	<u>40</u>	mph
60 mph	<u>1083</u> Hz	<u>60</u>	mph
80 mph	<u>1444</u> Hz	<u>80</u>	mph
100 mph	<u>1807</u> Hz	<u>100</u>	mph

Section B

Speed	See Section "A"
Brake Pipe Pressure	Verify 3 pressures from cab gage - 0 psi, 55 psi and 110 psi
Brake Cylinder Pressure	Verify 3 pressures from cab gage - 0 psi, 30 psi and 50 psi
Equalizing Reservoir	Verify 3 pressures from cab gage - 0 psi, 55 psi and 110 psi
Main Reservoir 110 PSI	Verify On/Off - When Main Reservoir is above 110 psi = On (1)
Throttle Positions	Verify Idle, notches 1-8 and emergency loco shutdown = STOP (Test In Idle)
Direction	Verify Forward, Neutral and Reverse
Bell	Verify On/Off - When the Bell is sounding = On (1)
Horn	Verify On/Off - When the Horn sounding = On (1)
Headlights	Verify On/Off - When Headlights are Dim or Bright = On (1)
Wheel Slide	Verify On/Off - When In Wheel Slip = On (1) Energize Pin 10T Trainline- Pin.
PCS	Verify On/Off - When In a PCS (Power Knockdown), = On (1)
Alerter Penalty	Verify On/Off - When in a Alerte Penalty = Off (0)
Cab Signal Power	Verify On/Off - When Cab Signal is powered up = On (0)
Cab Signal Penalty	Verify On/Off - In a Cab Signal Penalty = Off (0)
ATC Alarm	Verify On/Off - Alarm Sounding = On (1)
Cab Signal Ack	Verify On/Off - Acknowledge Button Pressed = On (1)
Cab Signal Aspect Is	Verify Restricting, Approach, 45, Clear, SCCO C/O when cut out and Non Cab for Non Cab Territory Mode
Cab Signal Type Is	Should show "4" for a 4 aspect Cab Signal System
SCCO C/O	Verify On/Off - SCCO Cut In = Off (0) SCCO Cut Out = On (1)
Cab Territory	Verify On/Off - Territory = Non Coded (0) Cab Territory = Coded (1)
ACES Overspeed	Verify On/Off - In ACES Penalty = Off (0)
ACES Cutout	Verify On/Off - ACES Cut In = Off (0) ACES Cut Out = On (1)
Wheel Select 1 & 2	Wheel Select 1 = On (1), Wheel Select 2 = Off (0) (status check only)
Axle Select 1 & 2	Axle 1 & 2 = On (1) (status check only)
ACES Status	Should show "ACES Equipped"

3. All Inputs operate as Intended in Section A and B : Yes ☐ No ☐ (Circle One)

4. Information Downloaded and Verified: Yes ☐ No ☐ (Circle One)

Electrician Performing Test: Michael Phillips

Employee Number: 10273 Date: 4-5-23