KEOUS

PM PACKET SIGN-OFF SHEET

Work Order #: 6/07		Equ	ipment ID: 1645
PM Service (ex. 45-Day, 92-Day, 1YR etc.): 97 DAY			, • • •
Date Work Order Opened: 11-14-22		Dat	e Work Order Finished: //· /4-22
Confirm all work carried out in accordance with			Work Deferred
the PM requirements:	Ves	No	
If work Deferred, confirm that a Deferred work			Enter Deferred Work Order number below
order has been raised:	Yes	No	
MEC557 Report has been run and relevant Work			Include a copy of the final MEC557 report
Orders and Service Requests have been reviewed and addressed.	Yes	No	for the equipment with the PM packet.
All required forms are attached and completed:	Yes	No	
Locomotive Tests			Coach Tests
Oil Sample			Disc Report
Air Filters			A/C Filters
Loco Undercarriage Inspection		-	Toilet
Equipment Release Date: //- 14-22			
Manager/Supervisor Reviewing Work Order: (Please pri	int clear	ly and	sign)
Name: M. TEND	Signat	ture:	ante
Supt reviewing Work Order: (Please print clearly and sign	i)		
Name: Thomas Crosell	Signat	ture;	TIKU
Comments:	.·	,	
			· · · · · · · · · · · · · · · · · · ·

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

MEC557 - Equipment Pre-Release Health Check

Equipment ID: 1645

Service Requests	ests								
SR ID	Created Date	Days Old	Days Old SR Created by	Status	Symptom	Task	Work Order ID	Service Request Comments	Priority
1645-4635459	11/02/2022	13	MARK.GOUVEIA	FINISHED	ACSES20		MBETCH-2022-6499	ACSES NON-CONFORMING SPEED	
1645-4173813	10/28/2021	383	DONALD.OCONNELL	PENDING	HVAC20	809-110		HVAC PRE/SEASONAL INPECTION	E
1645-4581851	09/23/2022	ß	GORDON.MARSH	PENDING		B02-100		MUP ID: IN2022-029 SLIPPERY RAIL SEASON WHEEL SLIDE SYSTEM AND DYNAMIC BRAKE CHECKS FOR CONTROL CARS	1
1645-4332995	03/09/2022	251	KRISTINA.ROCHELEAU	PENDING		B15-400-0040		SUZOZZ-010 PTC RADIO SOFTWARE UPGRADE. NO PROCEDURESÝ HTACHI IS DOING THE UPGRADE.	
1645-4605324	10/07/2022	39	DANIEL CAPRA	PENDING	HVAC20			HVAC PRE/SEASONAL INPECTION	ξ 4
1645-4582227	09/23/2022	SS	GORDON,MARSH	FINISHED		803-110	MBETCH-2022-6499	MUP IN2022-032 BOMBARDIER WHEEL SLIDE TESTING COMPLETE ATTACHED WOOD WINSTRUCTIONS	
1645-4582305	09/23/2022	53	GORDON.MARSH	PENDING		B03-220		COMPLETE ALIACHED WORN INSTRUCTIONS MAIN 1N2022-032 LOCO/CTC SANDING SYSTEM MERICA	2
								COMPLETE ATTACHED WORK INSTRUCTION: KCS-ME-WI-210372 LO	

PM Services/fi	PM Services/Inspections Due			
Task ID	Description	Last Scheduled	Last Scheduled Last Completed	Next Due
CTC45-PM	CTC 45 DAY INSPECTION MID CLASS PM	04/15/2019	06/02/2019	12/29/2022
HVAC-SPONGE	HVAC AIR SPONGE REPLACEMENT	09/02/2022	10/20/2022	11/19/2022
COACH-CLN-EX	COACH EXTERIOR CLEANING - CARRIAGE WASH AS WEATHER PERMITS			
AC FILTER-30	REPLACE RETURN AIR AND FRESH FILTERS -30 DAY	11/06/2022	11/14/2022	12/14/2022
COACH-CLN-A	COACH CLEANING INSPECTION - CLASS A - MONTHLY CLEAN	2202/22/60	09/09/2022	
COACH-CLN-C	COACH INTERIOR CLEANING - CLASS C - DAILY CLEAN			
SAND CTC	SANDER INSPECTED AND SANDBOX REFILLED	07/12/2020	07/20/2020	

Due Within 5 d

Work Orders								
Work Order ID Creat	Created date	Days old	Days old WO Created by	Work Order Title	Job Type PM Service		Work Order Status Delay Code	Delay Code
MBETCH-2022-6107 11/14	11/14/2022	H	NICOLE, SIMS	90 DAY PM	M.	СТС90-РМ	WORK FINISHED	None
MRDVYD-2020-4906 10/25	10/25/2020	751	751 EVER, DIAZ		REPAIR		PENDING	None
MBETCH-2022-6499 11/14	11/14/2022		ELAINE.DERGSA	MR1 92 DAY	REPAIR		WORK FINISHED	Nane



Equipment ID: 1645

MUPs - Multi	MUPs - Multi-Unit Projects				
Project Code Description	Description	Work Order 1D	Work Order ID Service Request ID WO/SR Status Project Due Date	WO/SR Status	Project Due Date
IN2022-029	SLIPPERY RAIL SEASON WHEEL SLIDE SYSTEM AND DYNAMIC BRAKE CHECKS FOR CONTROL CARS		1645-4581851	PENDING	10.00
IN2022-032	BOMBARDIER WHEEL SLIDE TESTING	MBETCH-2022-6499 1645-4582227	1645-4582227	FINISHED	
INZ022-033	LOCO/CTC SANDING SYSTEM CHECK		1645-4582305	PENDING	
SU2022-010	PTC RADIO SOFTWARE UPGRADE		1645-4332995	PENDING	
FBDINST20	AUTOMATED PEOPLE COUNTER (APC/ FBD)INSTALL PROJECT - 4TH GENERATION INSTALL	MRDVYD-2020-4906		PENDING	

0	O	4465a02244	*	S
j	Comm	ng,	Servi	Œ

MAP 816

LOCOMOTIVE INSPECTION AND REPAIR RECORD

In accordance with the Locomotive Inspection Act, 36 State, 913, as amended and the regulations issued

Federal Rallroad Administration			If loco, rer	numbered		<u> </u>	<u> </u>						and appurter		
		loco.	give previ							disclo	sed by the	inspection ha	we been prop	erly repa	ired.
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3. MODEL NO.	4. LOCO, NO.	5. YR. BUIL	Т 6. 1	PROPELI			HORS	EPOW			PE OF SERV	ICE: PA	ASSENGER	X	
CTC	1645	1990		MU	C			NA		ROAL	· 🔲	YARD		OTHER	
9. STEAM GEN.	10. MAXIMUM	PISTON TRAVE	L .	Т	YPE OF A	IR B	RAKE			11. 0	UT OF USE O	CREDIT		·	
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12. LAST PERIOD	IC INSPECTION DATE							PLACE	3						
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-			PE	RIODI	C INSPE	CTI	ONS							w	
13. DATE MO/DAY/YR	14. PLACE	15,* п	EMS		PERSON NDUCTIN	G	15.*	ITEN	18	16.	PERS CONDUC		17. CER	ri <u>F</u> iED	BY
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TYPE	INTERVAL NOT MORE THAN		UCTING		TEST AND				CE	RTIF	TED BY		DATE AN		
METER	368 calendar days												N	/ A	
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AIR BRAKE	368 calendar days	MA	'al	' 2	-16-	20	22	_ 9	Paul	<u> </u>	eul		2/19	/2021	
229.27	•	/ /	7	S	onervi)	او	MA						SOMERV	ILLE,	, MA.
AIR BRAKE	NUMBER OF CALENDAR												2/19	/2021	
229.29	DAYS												SOMERV	ILLE	, MA.
Certification of tru I certify that this is	e copy. s a true copy of the insp	pection and repa	air record o	of locom	otive no.				1645				,	,	

(Officer-in-charge)
ATTENTION: A false entry on this form is punishable by fine or imprisonment (U.S. Code, Title 18, Sec. 1001).

FORM FRA F6180-49 A (3-85)

OMB Approval No. 2130-0004

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US Department
of Transportation
Federal Railroad
Administration
Reporting y
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MAP 816

LOCOMOTIVE INSPECTION AND REPAIR RECORD

In accordance with the Locomotive Inspection Act, 36 State, 913, as amended and the regulations issued pursuant to that Act, the parts and appurtenances of the locomotive unit have been inspected and all defect included by the location of the locomotive with the location of the locatio

Administration	•					If loc	o. rei	numb	red			1	T T	Г	T			e locomotive unit				
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FORM FRA F618										OPER							•			Approval	No. 21.	30-0004
V.CS 2060					GC	A ER	TMIM	131A I	rĸ	JEEK Doo	. 1	oe ,	J JŲI	KΕ	iviO (, E						

INSTRUCTIONS

- 1. OPERATED BY: Enter the name and code* of the railroad primarily responsible for operating the locomotive at the time the report is placed in the locomotive. Operator changes, including dates, shall be noted in "Remarks."
- 2. OWNER: Enter the name and code* of the owner. Changes in ownership shall be submitted as final reports.
- 3. MODEL NO.: Enter the original builder's model number.
- 4. LOCOMOTIVE NO.: Buter only the locomotive number. Include letters only if they are part of the locomotive markings. If the locomotive number is changed, include the information at the top of the form.
- 5. YEAR BUILT: Enter the year the locomotive was built or rebuilt.
- 6. PROPELLED BY: Enter Diesel-Electric (D-B). Electric (E). Mu Control Cab (MUC). Non-Mu Control Cab (NMUC). Turbo (T). Torque Converter (TC). Other (Q).
- 7. HORSEPOWER: Enter horsepower rating.
- 8. TYPE OF SERVICE: Enter type of service the locomotive is assigned to when the report is placed in the locomotive.
- 9. Enter steam generator number(s) and safe working pressure(s).
- 10. Enter maximum piston travel. Enter only "Nominal" travel and do not include Manufactures Tolerance. Also include type of AIR BRAKE.
- 11. Enter number of creditable calendar days the locomotive was out-of-use. Less than 30 consecutive calendar days for any out-of-use period may not be counted. Any entry "out-of-use from ______ to _____" shall be made on an inspection line and certified when a locomotive is not in use when an inspection would otherwise be due. If the locomotive is out-of-use at the end of the reporting period, complete the "To" entry with the last day of the period. The entry on the replacement report should then record the "From" as the beginning of the new period.
- 12. LAST PERIODIC INSPECTION AND TESTS: This report covers annual periods (January 1 to December 31). The report of the preceding annual period shall be retained in the locomotive until the first periodic inspection is made after January 1 of each year or until the form is replaced as required by Section 229.23(e). When a new form 6180.49A is placed in the locomotive, enter the last periodic inspection information onto the new form in item 12 and the test information in item 24. Tests that are not applicable should be noted "N/A".

 INSPECTIONS AND TESTS: Persons making the required tests and periodic inspections shall sign for the items tested or inspected. The employee's

supervisor shall certify that the tests and inspections were completed.

TESTS: Where the carrier has chosen to fragment air brake cleaning, repairing and testing required by Sections 229.27 & 29. An air record shall be maintained in the cab of the locomotive.

- 18. H&H: Buter test pressure from the hydrostatic test; If reservoirs are drilled; enter word "Drilled". CODE*; Carriers shall enter only the code assigned by FRA to their railroad.
- 19. Any waivers of any type from a requirement or 49CFR Part 229 shall be identified in block No. 19 by its waiver number or by the section number affected, Explanatory information regarding the scope and content of the waiver shall be included under "Remarks".
- 20. Any waiver from any FRA requirment other than a requirment of 49CFR Part 229 shall be identified in block No. 20 by its waiver number or by the part and section number affected. Explanatory information regarding the scope and content of the waiver shall be included under "Remarks".
- 21. Under Tests (Air Brake 229,29), fill in the number of the calendar days subject air brake equipment is subjected to cleaning, repairing and testing,

REPAIRS: Defects not properly repaired.

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

<u>REMARKS:</u> The carriers should enter under "Remarks" any other clarifying or explanatory information.

"EVENT RECORDER EQUIPPED"

Quantum 1080/M AUTOMATIC TRAIN CONTROL RELAYS OSR 6/28/22 3385242 6/16/22 6/16/22 LF B3886062 4979248 4/1/22 LRK RP B5089171 6/28/22 B3286015 6/16/22 1281911 6/28/22 L903512 6/28/22 B3286048 6/16/22 ~ L903127 6/16/22 MR B4686015 6/28/22 11/14/2022 NEXT CHANGE-OUT DATE: INSTALLATION DATE: 11/2028 RELAY RELAY NUMBER RELAY DATE INSTALLATION DATE T.C.T. DONE -NAME / # / DATE

Work Order Detail MBETCH-2022-6107



Asset ID:

Job Type:

1645 1990 BOMBARDIER CTC-1B COACH

Repair Location:

MBETCH - BET - COACH REPAIR

Work Order ID:

PM Scheduled:

MBETCH-2022-6107

11/18/2022

11/14/2022 06:56 PM

Service Status:

Job Status: PM Service: **WORK FINISHED**

CTC90-PM - CTC 90 DAY CLASS PM

RELEASED - RELEASED FOR SERVICE

90 DAY PM

Date:

Next PM Due Date:

Projected Completion

02/17/2023

Title: Priority:

M4 - EVALUATE NEXT OPPORTUNITY

Non Service Request Tasks

Task: AC FILTER-30 - Repla	ice Return Air And Fresh Filters -30 Day		Warranty: NO
WAC: 12 - REPLACED	Reason: -		
Work Class: -	Comments:		
Task: CTC90-PM - Ctc 90 D	ay Class Pm		Warranty: NO
WAC: 22 - TESTED	Reason: -		
Work Class: -	Comments:		
Task Notes			
JOSEPH.GA(11-14-2022 5:29	PPM TEST PASSED. W/S PASSED.		
Labor		Labor Hrs	Cost
11/14/2022 13:04 Emp:	ASHED - Dennis Ashe	0.22	21.78
11/14/2022 15:02	MARCOTJ - Jay Marcotte	0.03	2.97
11/14/2022 17:29	GAGLIOJ - Joseph Gaglione	8.17	808.83

Overhead

Small Parts - Labor: 0.00 Small Parts - Parts: 0.00

Tools: 0.00

Overhead Costs: 0.00

Total Overhead Costs: 0.00

Messages

Other Open Work Orders

Work Order Number Mbetch-2022-6132

Type Repair Pending

Scheduled Status

Reason Service

Mrdvyd-2020-4906

Repair Pending

Mup Mup

Unit Is 50 Days Late For Inspection Service Ctc45-Pm - Due Date 09/25/2022

Unit Is 845 Days Late For Inspection Service Sand Ctc - Due Date 07/22/2020

Unit Is 26 Days Late For Inspection Service Coach-Cln-A - Due Date 10/19/2022

Unit Is 831 Days Late For Inspection Service Coach-Cln-Ex - Due Date 08/05/2020

Unit Is 831 Days Late For Inspection Service Coach-Cln-C - Due Date 08/05/2020

Component Automatic People Counter (Apc) Is Under Warranty - Expires 03/15/2025

Trapeze

Page 1 of 12

Work Order: MBETCH-2022-6107

PM Checklist					
Task / Comment AC FILTER-30	Exception PM: No	Employee	Failed	N/A	Completed
PM5840 - REPLACE RETURN	I AIR AND FRESH FILTERS	NAZZARC - CHRISTOPHER NAZZARO			V
СТС90-РМ	Exception PM: No	1			
PM450 CAB TRAI	LER COACH 92-DAY INSPECTION	GAGLIOJ - JOSEPH GAGLIONE			V
PM5141 ELECTRI	CAL INSPECTOR	REIDM - MICHAEL REID			\checkmark
PM657 - TEST THE CAB SIG	NAL SYSTEM	PHILLIM - MALCOLM PHILLIPS			
PM5848 - COMPLETE RELAY	FORM KCS-ME-FO-210034	PHILLIM - MALCOLM PHILLIPS			\checkmark
PM5849 - COMPLETE CAB S	IGNAL FORM KCS-ME-FO-210035	PHILLIM - MALCOLM PHILLIPS			$\sqrt{}$
PM5432 - INSPECT DECELO DAMAGE OR MISALIGNMEN	STAT MAGNETIC PICKUP FOR	ASHED - DENNIS ASHE			4
Procedure: T PM5433 - TEST DECELOSTA SLIDE REPORT. DOCUMENT		ASHED - DENNIS ASHE			√
Procedure: MBER KCS-ME-F PM5434 - INSPECT SPEED S		ASHED - DENNIS ASHE			
PM3415 - VERIFY SANDING PROPER OPERATION	UNIT AND EQUIPMENT FOR	PHILLIM - MALCOLM PHILLIPS			\checkmark
Procedure: RMM FRA 229.1 PM5435 - TEST BUZZER FU		ASHED - DENNIS ASHE			1
PM3011 - TEST OPERATION	I OF PA SYSTEM	PHILLIM - MALCOLM PHILLIPS			\checkmark
	OF CREW INTERCOM SYSTEM	PHILLIM - MALCOLM PHILLIPS			$\overline{\checkmark}$
Procedure: RMM 9.3.2 FRA PM4046 - TEST ALL M.U. Al	238.121, 238.305(C)(12) ND SIGNAL CIRCUITS	PHILLIM - MALCOLM PHILLIPS			\checkmark
Procedure: FRA FRA-236.58 PM6243 - PERFORM POWER		ASHED - DENNIS ASHE			√
Procedure: KCS-ME-WI-210 PM6244 - PERFORM POWE		ASHED - DENNIS ASHE			
Procedure: KCS-ME-WI-210 PM5865 - TEST THE CAB SI	432 GNAL SYSTEM ATC AND ACSES	PHILLIM - MALCOLM PHILLIPS			\checkmark
AND TEST REPORT KCS-ME 229.135 229.140			· · · · · · · · · · · · · · · · · · ·		
PM5866 - PERFORM ATC CO Procedure: RECORD RESUL KCS-ME-FO-210091 PAGE F		PHILLIM - MALCOLM PHILLIPS			\display \display



Page 2 of 12

PM5867 - TEST THE OPERATION OF THE EVENT RECORDER AND SPEED INDICATOR	PHILLIM - MALCOLM PHILLIPS			\checkmark
Procedure: RECORD RESULTS ON SPEED AND EVENT RECORDER TEST FORM KCS-ME-FO-210057 FRA 229.135 229.140				
PM5135 - TEST WINDSHIELD HEATERS, ENGINEER`S AND FIREMAN`S SIDE	ASHED - DENNIS ASHE			\checkmark
Procedure: FRA 2.8.10				
PM5674 - CHECK THE DAMAGE FOR ACSES ANTENNA	PHILLIM - MALCOLM PHILLIPS			\checkmark
PM4040 - INSPECT ALL UNDERSIDE CONDUIT AND ENCLOSURES FOR SIGNS OF	PHILLIM - MALCOLM PHILLIPS			\checkmark
Procedure: DAMAGE AND SEAL INTEGRITY FRA 229.25(B), 238.305(C)(1)		· · · · · · · · · · · · · · · · · · ·	··· ·	
PM4041 - CHECK UNDER CAR HIGH AND LOW VOLTAGE WIRING AND CABLING AND	PHILLIM - MALCOLM PHILLIPS			
Procedure: ELECTRICAL EQUIPMENT FOR SIGNS OF DAMAGE OR OVERHEATING FRA 229.25(B), 238.305(C)(1)				
PM5215 - INSPECT ALL GROUND STRAPS AND CABLES, REPAIR OR REPLACE AS	ASHED - DENNIS ASHE			\checkmark
Procedure: NEEDED FRA 229.25(B), 238.305(C)(1) PM3029 - INSPECT LOW VOLTAGE CIRCUIT BREAKER FOR PROPER OPERATION	PHILLIM - MALCOLM PHILLIPS			\checkmark
Procedure: RMM 5.4.2.1 FRA 229.25(B), 238.305(C)(1)				
PM3030 - INSPECT LOW VOLTAGE SYSTEM FOR GROUNDS	PHILLIM - MALCOLM PHILLIPS			1
Procedure: RMM 5.4.2.1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · ·	
PM3031 - INSPECT HIGH VOLTAGE CIRCUIT BREAKERS FOR PROPER OPERATION	PHILLIM - MALCOLM PHILLIPS			\checkmark
Procedure: RMM 5.4.1.1	DUTCH THE MAN COLM DUTCH TOC		· · · · · · ·	
PM3411 - INSPECT HIGH VOLTAGE EQUIPMENT MARKINGS ALL DOORS AND COVER	PHILLIM - MALCOLM PHILLIPS			Ą
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) PM3032 - TEST CONVENIENCE OUTLETS (120 VAC)	PHILLIM - MALCOLM PHILLIPS			
Procedure: RMM 5.9.3			· · · · · · · · · · · · · · · · · · ·	
PM3036 - INSPECT ALL TRAINLINE JUMPERS AND RECEPTACLES FOR DAMAGE, AR	ASHED - DENNIS ASHE			\checkmark
Procedure: CING AND OVERHEATING RMM 5.4.3.1 AND 5.4.3.2 FRA 238.303(E) (11)				
PM043 ELECTRICIAN	REIDM - MICHAEL REID			\checkmark
PM5216 - CHECK BATTERY CHARGER FOR PROPER OPERATION AND VOLTAGE	ASHED - DENNIS ASHE			\checkmark
Procedure: SETTING - 72 VDC, RECORD RESULTS ON CRM-22C AND BATTERY CELL VOLTAGE TEST FORM RMM				

Work Order: MBETCH-2022-6107 ASHED - DENNIS ASHE PM5868 - VERIFY BATTERY CELL VOLTAGE AND RECORD READING ON CRM-22C Procedure: FILL CELLS TO FULL MARK-WASH TRAYS TIGHTEN CONNECTIONS AND GREASE TERMINALS FRA 229,43AB RMM SAB/NIFE MAN CH. 4-MIM ASHED - DENNIS ASHE PM5669 - VERIFY BATTERY SYSTEM FOR UNOBSTRUCTED VENTING ASHED - DENNIS ASHE PM5670 - VERIFY BATTERY TERMINAL CONNECTORS FOR TIGHTNESS PM5671 - VERIFY BATTERY ELECTROLYTE LEVEL ASHED - DENNIS ASHE ASHED - DENNIS ASHE PM5672 - VERIFY BATTERY CHARGING RATE PM711 - CHECK ALL SWITCHES, RELAYS, CONTACTORS, PHILLIM - MALCOLM PHILLIPS SHUNT TRIPS, WIRING Procedure: CONNECTIONS AND CURCUIT BREAKERS FOR PROPER OPERATION, SIGNS OF LOOSENING AND OVERHEATING FRA 238.305 ASHED - DENNIS ASHE PM5205 - REPLACE AS NEEDED HEAD LIGHTS, BRAKE INDICATOR LIGHTS, CLASS Procedure: LIGHTS, NUMBER LIGHTS, STEP LIGHTS, AND EMERGENCY LIGHTS (FUNCTIONALITY CHECK) FRA 229.129, 229.125 PM5328 - VERIFY EMERGENCY LIGHTING DURATION. ASHED - DENNIS ASHE RECORD RESULTS ON DURATI 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 ASHED - DENNIS ASHE LAMPS AS NECESSARY Procedure: RMM 2.8.7.2 AND 2.3.9 ASHED - DENNIS ASHE PM3042 - VERIFY ALL LIGHT FIXTURES FOR PROPER SECUREMENT. CHECK FOR Procedure: DUST. CLEAN AS NECESSARY RMM 2.8.7.2; 6.3 AND 6.4 ASHED - DENNIS ASHE PM3044 - VERIFY ALL LAMP SOCKETS FOR BREAKS; CRACKS: SCORCHING AND Procedure: DAMAGE RMM 6.3; 6.7.2 AND 6.7.5 PM3045 - VERIFY ALL LAMP SOCKET TERMINAL AND ASHED - DENNIS ASHE CONTACTS FOR CORROSION Procedure: OR DAMAGE, CLEAN AS NECESSARY RMM 6.3 AND 6.4 PM3047 - VERIFY ALL LAMP WIRE LEADS FOR FRAYING; ASHED - DENNIS ASHE SCORCHING; INSULATIO Procedure: N BREAKS AND OTHER SIGNS OF DAMAGE. CLEAN OR REPAIR AS NECESSARY RMM 6.3 AND 6.4



BREAKS; CRACKS;

PM3056 - VERIFY ALL BALLASTS AND BATTERY PACKS FOR

Procedure: SCORCHING AND OTHER SIGNS OF DAMAGE. REPLACE AS NECESSARY RMM 6.3; 6.7.3 AND 6.7.6

ASHED - DENNIS ASHE

Work Order: MBETCH-2022-6107

PM5869 - PERFORM HVAC INSPECTION-DOCUMENT ON HVAC REPORT	NAZZARC - CHRISTOPHER NAZZARO			\checkmark
Procedure: DOCUMENT NUMBER KCS-ME-FO-210055-KCS-HVAC-INSP002-NEED TO REVIEW HVAC DOCUMENT FRA 238.303 E17			· · · · ·	
PM4061 - REPLACE RETURN AIR AND FRESH AIR INTAKE FILTERS	NAZZARC - CHRISTOPHER NAZZARO			\checkmark
Procedure: FRA 238.303 (E)(17)				
PM4060 - CHECK THE EVAPORATOR BLOWER AND CONDENSER FANS FOR PROPER	NAZZARC - CHRISTOPHER NAZZARO			\checkmark
Procedure: WORKING CONDITION FRA 238,303		· · · · · 		
PM4063 - CHECK OPERATION OF CAB HEATERS	ASHED - DENNIS ASHE			\checkmark
Procedure: FRA 229.119(D), 229.127				
PM4064 - INSPECT AND REPAIR TRAP HEATERS AS NEEDED	ASHED - DENNIS ASHE			1
Procedure: RMM-1.5.3 FRA FRA-238.305(C)(13)				
PM5142 CARMAN INSPECTOR	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
PM5870 - PERFORM COUPLER INSPECTION-DOCUMENT ON COUPLER REPORT	GAGLIOJ - JOSEPH GAGLIONE	Lauguman		4
Procedure: DOCUMENT NUMBER KCS-ME-FO-210072	<u></u>			
PM371 - REMOVE CAB CARD AND REPORT ALL TEST DATES. REAPPLY CAB CARD	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: AT CONCLUSION OF INSPECTION FRA-236.586; 236.588				
PM3071 - PERFORM SINGLE CAR TEST, SIGN CAB CARD AND DATE THE HAND BRA	GAGLIOJ - JOSEPH GAGLIONE			√
Procedure: KE RMM 10.3.1 FRA 229.25, 238.107, 238.313				
PM3447 - INSPECT ALL BRAKE COMPONENTS FOR DAMAGE AND LEAKAGE	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 10.5.6 FRA 229.57; 238.307(C)(10)			· · · 	
PM3422 - PERFORM LEAKAGE CHECK OF TELLTALE HOLES ON COMBINED CONTROL	GAGLIOJ - JOSEPH GAGLIONE			√
Procedure: SELECTOR AND MAIN RESERVOIR FRA 229.31				
PM5871 - INSPECT WHEELS FOR DEFECTS-MEASURE WHEELS	GAGLIOJ - JOSEPH GAGLIONE			V
Procedure: DOCUMENT NUMBER KCS-ME-FO-210012			· · · · · · · · · · · · · · · · · · ·	
PM5872 - INSPECT AXLE BEARING TYPE AP CLASS E6 AXLE BEARING	GAGLIOJ - JOSEPH GAGLIONE			<u> </u>
Procedure: FOR SIGNS OF DAMAGE OR OVERHEATING		· · · · · · · ·	· · · · · ·	· · · · · ·
PM3417 - INSPECT CENTER PIN FOR COTTER PIN AND WASHER	GAGLIOJ - JOSEPH GAGLIONE			$ \checkmark $
Procedure: RMM FRA 229.67				<u>-</u> 7
PM3062 - INSPECT SIDE BEARER	GAGLIOJ - JOSEPH GAGLIONE			4
Procedure: RMM 3.3.11.1 FRA 238.303(E) (7)				



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PM3080 - INSPECT EQUIPMENT BOX SEALS FOR DAMAGE	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: RMM 2.3.18 AND 2.3.21				
PM3419 - INSPECT BOLSTER ANCHOR FOR DAMAGE OR LOOSE OR MISSING HARDWA	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: RE. INSPECT ANCHOR ROD BUSHING FOR DAMAGE. RMM 3.3.8.1	.,,			
PM3418 - INSPECT TRUCK FRAME AND BOLSTER FOR LOOSE OR BROKEN WELDS AN	GAGLIOJ - JOSEPH GAGLIONE			1
Procedure: D MISSING HARDWARE. RMM 3.3.1.1; 3.3.1.2; FRA 238.303(E)(6)	<u>.</u>	· · · • • • • • • • • • • • • • • • • •		
PM5873 - INSPECT SAFETY HANGER AND VERIFY CLEARANCE WITH BOLSTER	GAGLIOJ - JOSEPH GAGLIONE		Ш	
PM3084 - INSPECT PRIMARY SUSPENSION SYSTEM	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 3.3.6.1 AND 3.3.6.2 FRA 238.303(E) (18) FRA 238.307(C) (11)				· · · [] · ·
PM3081 - INSPECT BRAKE RIGGING FOR DAMAGE	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: RMM 2.3.18 AND 2.3.21 PM5469 - INSPECT EXTERIOR DECALS AND REFLECTIONS FOR LEGIBILITY AND D	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: AMAGE FRA 238.303(E) (18) PM3106 - TEST AND INSPECT BODY END DOOR MECHANICAL ASSEMBLY AND	GAGLIOJ - JOSEPH GAGLIONE			V
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) PM3092 - INSPECT AND VERIFY TRAP DOOR MOVEMENT IS SMOOTH AND THAT	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: TRAP DOOR LATCHES LOCK RMM 7.3.1.2 FRA 238.305(C) (8)				
PM3107 - INSPECT BODY END DOOR PANEL	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 7.3.3.3.3 FRA 238.305(C) (10) PM3436 - INSPECT SIDE ENTRANCE DOOR FOR OPEN AND CLOSE OPERATION. ENS	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: URE FREEDOM OF MOVEMENT RMM 7.3.1.1; 7.3.2.1; FRA 238.305(C)(10)				
PM3109 - INSPECT COLLISION POST DOOR FOR PROPER OPERATION	GAGLIOJ - JOSEPH GAGLIONE			√
Procedure: RMM 7.4.1.4, 7.3.2.4 (92), 7.3.3.4.1 (184) FRA 238.305(C)(10)				
PM3063 - INSPECT VESTIBULE STEPS FOR CRACKED WELDS OR SEPARATION	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 2.1.4.12	GAGLIOJ - JOSEPH GAGLIONE			
PM3101 - INSPECT VESTIBULE SIGNAGE FOR LEGIBILITY AND CLEANLINESS.	AVAILOR - JOSEFIII AVAILORE			¥
Procedure: VERIFY NO STICKERS OVERLAP RMM 2.3.11 FRA 238.305(C) (7)				···· [
PM6001 - INSPECT STRYKER CHAIR IS PRESENT AND IN WORKING ORDER	GAGLIOJ - JOSEPH GAGLIONE			\checkmark

Work Order: MBETCH-2022-6107 GAGLIOJ - JOSEPH GAGLIONE PM3070 - INSPECT DIAPHRAGM FOR CUTS; DAMAGE AND PROPER SECUREMENT Procedure: RMM 2.3.4 AND 2.3.6 FRA 238.303(E) (14) GAGLIOJ - JOSEPH GAGLIONE 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) PM3100 - INSPECT INTERIOR SIGNAGE FOR LEGIBILITY AND GAGLIOJ - JOSEPH GAGLIONE CLEANLINESS. Procedure: VERIFY NO STICKERS OVERLAP RMM 2.3.11 FRA 238.305(C) (7) GAGLIOJ - JOSEPH GAGLIONE PM3103 - INSPECT INTERIOR AND EXTERIOR PAINTED SURFACES Procedure: RMM 2.3.21 GAGLIOJ - JOSEPH GAGLIONE 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) PM5479 - INSPECT WEATHER STRIPPING FOR TORN OR GAGLIOJ - JOSEPH GAGLIONE MISSING PIECES Procedure: FRA 238.305 PM3113 - INSPECT FLOORING GAGLIOJ - JOSEPH GAGLIONE Procedure: RMM 2.3.12 FRA 238.305 GAGLIOJ - JOSEPH GAGLIONE PM3437 - INSPECT FOR MISSING OR LOOSE HARDWARE. REPLACE AS NEEDED Procedure: RMM 7.3.1.2 FRA 238.305 GAGLIOJ - JOSEPH GAGLIONE PM3094 - INSPECT WINDOW PANES; WINDSHIELD GLAZING STRIPS AND ZIPPERS Procedure: FOR DAMAGE RMM 2.3.22 FRA 223.17 AND 238,221 GAGLIOJ - JOSEPH GAGLIONE PM4087 - VERIFY PROPER OPERATION OF EMERGENCY EXIT WINDOW LOCATION Procedure: AND RECORD, FRA 238,305(C)(4) PM5874 - INSPECT MR AND BP HOSES IN PLACE WITH GAGLIOJ - JOSEPH GAGLIONE SPARES IN LOC - CARMAN Procedure: FRA 238,307C 4 GAGLIOJ - JOSEPH GAGLIONE PM3434 - INSPECT OPERATION OF WINDSHIELD WIPERS Procedure: RMM 2.3.25; 2.4.11; 2.8.10 FRA 229.119(B) GAGLIOJ - JOSEPH GAGLIONE PM117 - ------ CARMAN ------



Brakes for Proper

PM4080 - INSPECT ALL BRAKE EQUIP INCL, VALVES TREAD

Procedure: OPERATION; SECUREMENT OF ALL BOLTS AND

BUSHINGS AND COTTER KEYS RMM 9.2.2

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Report Date: 11/14/2022

GAGLIOJ - JOSEPH GAGLIONE

Work Order: MBETCH-2022-6107

PM4028 - CHANGE BRAKE SHOES AS NEEDED	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: RMM 9.2.13 FRA FRA-238.311, FRA-238.307(C) (10)				
PM3324 - TEST OPERATION AND LUBRICATE HANDBRAKE. TEST OPERATION	GAGLIOJ - JOSEPH GAGLIONE			<u> </u>
Procedure: OF HANDBRAKE INDICATOR SWITCH RMM 10.3.11; 10.5.2 FRA 238.231(H); 238.307(C)(13); 238.307(D)(2)				
PM4010 - TEST ALL EMERGENCY VALVES (CONDUCTORS VALVES)	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: FRA-238.311, FRA-238.307(C)(10)		<u></u>	· · · 	·
PM817 - CHECK ALL EQUALIZER BEAM BUSHINGS FOR DAMAGE, REPLACE AS REQ	GAGLIOJ - JOSEPH GAGLIONE			Ŵ
Procedure: UIRED - 8 LOCATIONS PER COACH RMM 12.2.3 FRA 238.303(C)(5)(IV)			· · · · · · · ·	····[
PM5202 - INSPECT AND TEST DOOR OPERATION AND LUBRICATE ALL MOVEABLE P	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
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)				
PM5875 - VERIFY ENTIRE CAR BODY FOR LOOSE DEFECTIVE AND MISSING PARTS	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: TO INCLUDE LUGGAGE RACKS SEATS SEAT ATTACHMENTS AND TRAPS FRA-238.307C1 RMM-1.4.1.A				
PM4016 - CHECK FOR PROPER EMERGENCY SIGNAGE INTERIOR AND EXTERIOR AND	GAGLIOJ - JOSEPH GAGLIONE			$ \overline{\checkmark} $
Procedure: HIGH VOLTAGE SIGNS FRA-238.305(C)(7)				
PM3099 - INSPECT INTERIOR PANELS FOR DAMAGE AND PROPER SECUREMENT	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 2.3.16 FRA 238.305(C)(13)			· · · · · ·	<u>- 71</u> .
PM3088 - INSPECT HANDLES AND CATCHES FOR PROPER OPERATION	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 7.3.2.2; 7.3.2.3 FRA 238.305				
PM331 - INSPECT ENTIRE CAR BODY FOR LOOSE , DEFECTIVE AND	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: MISSING PARTS, TO INCLUDE LUGGAGE RACKS, SEATS, SEAT ATTACHMENTS AND TRAPS RMM-1.4.1.A FRA FRA-238.307(C)(1)				
PM5876 - VERIFY EMERGENCY PRY BAR AND HOSE WRENCH ARE IN PLACE	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: REPLACE AS NECESSARY AND SEAL FRA-238,307C4		· · · · · · · · · · · · · · · · · · ·		
PM3323 - INSPECT FIRST AID KIT. REPLENISH AS NECESSARY	GAGLIOJ - JOSEPH GAGLIONE			\checkmark
Procedure: RMM 2.3.10 FRA 238.305(C)(4)				
PM4036 - CLEAN FRESH AIR INTAKE SCREEN AT BOTH ENDS	REIDM - MICHAEL REID			\checkmark
Procedure: RMM 7.10.10				



PM4086 - REPLACE BAD-ODOR SPONGE AT BOTH ENDS OF CAR	REIDM - MICHAEL REID			\checkmark
Procedure: RMM PM-007-C-HA		,		
PM5214 - TEST AIR GAUGES	GAGLIOJ - JOSEPH GAGLIONE			\leq
Procedure: FRA-229.46				
PM3446 - REPLACE WIPER BLADES (EVERY 92 DAYS)	REIDM - MICHAEL REID			\checkmark
Procedure: RMM 2.3.25; 2.4.11; 2.8.10 FRA 229.119(B)				
PM3440 - INSPECT CAB SEAT, SUN SHADE, AND FOOT REST	GAGLIOJ - JOSEPH GAGLIONE			
Procedure: RMM 2.3.3, 2.8.3 FRA 229.119(C)(E), 229.119(A), 238.305		· · , —— , · · · · ·	· · [] · · · · · ·	.1
PM6312 - INSPECT AEI TAG - SEE DOC WI-ME-210311 PAGE 5	GAGLIOJ - JOSEPH GAGLIONE			
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			√
PM4070 - CHECK UNDERCAR PIPING FOR SIGNS OF	MARCOTJ - JAY MARCOTTE			$\sqrt{}$
LOOSENING AND DAMAGE			<u> </u>	f
Procedure: RMM 9.2.2, FRA-238.307(C)(10)				



PM5211 - INSPECT ALL PIPING, VALVES, HOSES & FITTINGS THAT SHOW SIGNS	MARCOTJ - JAY MARCOTTE		 \checkmark
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		$ \mathcal{L} $
Procedure: NEEDED FRA 229.131(A) PM3452 - FLUSH AND CLEAN HVAC EVAPORATOR DRAIN PANS	MARCOTJ - JAY MARCOTTE		V
Procedure: RMM 8.3.16 PM3405 - REPAIR ANY TORN OR MISSING EVAPORATOR INSULATION	MARCOTJ - JAY MARCOTTE		
Procedure: RMM 8.3.16		· · · · · //////// - · · ·	
PM3402 - LUBRICATE ALL HANDLES; MAKE SURE PAINTED AND NOT FROZEN	MARCOTJ - JAY MARCOTTE		
PM3404 - INSPECT CAR FOR LOOSE OR DAMAGED PIPING	MARCOTJ - JAY MARCOTTE		✓
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		/
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		\checkmark
Procedure: FRA 238.303(E) (5)			
PM5519 - INSPECT ANGLE COCKS FOR DAMAGE	MARCOTJ - JAY MARCOTTE		
PM5877 - INSPECT MR AND BP HOSES IN PLACE WITH SPARES IN LOC - PIPER	MARCOTJ - JAY MARCOTTE		
Procedure: FRA 238.307C 4	ļ		
PM5032 COACH CLEANER	REIDM - MICHAEL REID		
PM5974 - REMOVE ALL TRASH	REIDM - MICHAEL REID		\checkmark
PM5982 - REMOVE ALL TRASH FROM ELECTRICAL LOCKER AND FUSEE BOX	REIDM - MICHAEL REID		\checkmark
PM5983 - WIPE DOWN ALL HANDLES GRAB HANDLES AND HANDHOLDS	REIDM - MICHAEL REID		✓
PM5984 - CLEAN SEAT BACKS BOTTOMS AND TABLES	REIDM - MICHAEL REID		\checkmark
PM5985 - SWEEP AND WET MOP FLOORS AND STAIRS	REIDM - MICHAEL REID		\checkmark
PM5986 - HAND WASH ALL TOILET ROOM SURFACES AND BUTTONS	REIDM - MICHAEL REID		
PM5987 - CLEAN AC VENTS	REIDM - MICHAEL REID		V
PM5988 - WIPE DOWN ALL CAB SURFACES CONTROLS AND DISPLAY SCREENS	REIDM - MICHAEL REID		



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Work Order L	Detail Detail			Work Order: MB	ETCH-2022-6107
PM5989 - CLEAN WINI	DSHIELD INSIDE AND OUTSIDE	REIDM - MICHAE	L REID		
PM5990 - CLEAN ALL \	WINDOWS	REIDM - MICHAE	EL REID		
PM5975 - REMOVE ALI MATERIALS	_ GRAFFITI AND UNAUTHORIZED	REIDM - MICHAE	EL REID		
Test Results					
Test ID: 726366	Test Date: 11/14/2022	Result: PASS	Comment:		
Component	Result Test Date/Time Numeric Valu		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: 726367	Test Date: 11/14/2022	Result: PASS	Comment:		
Component	Result Test Date/Time Numeric Value Four		Oughtauve i mumu	Line Comment	
POWERDOOR-SG-005 - DOOR GROUND CHECK			1 - PASS		
Test ID: 726368	Test Date: 11/14/2022	Result: PASS	Comment:		
Component	Result Test Date/Time Numeric Value		Oughtauve i maniq	Line Comment	
EMERG WINDOW FAIL - EMERGENCY WINDOW FAILURE REASON					
EMERGENCY WINDOW - EMERGENCY WINDOW			L1		
Test ID: 728383	Test Date: 11/14/2022	Result: PASS	Comment:		

WO Notes

FIRE EXT-SC-10 -CENTER OF COACH ABOVE LUGGAGE RACK

Component



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Line Comment

Numeric Value Adjust

Qualitative Finding

IN DATE

Numeric Value

Found

2,019.00

Result Test Date/Time

Comments:

90 DAY PM

Work Order Total:	\$833.58
Commercial Total:	0.00
Internal Total:	\$833.58
Overhead Costs:	\$0.00
Equipment Usage Costs:	\$0.00
Commercial Tax & Markup:	\$0.00
Commercial Misc Cost:	\$0.00
Commercial Labor Cost:	\$0.00
Commercial Parts Cost:	\$0.00
Internal Labor Cost:	\$833.58
Internal Parts Cost:	



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Work Order Detail MBETCH-2022-6499



Asset ID:

1645 1990 BOMBARDIER CTC-1B COACH

Repair Location:

Projected Completion

MBETCH - BET - COACH REPAIR

Work Order ID: Job Type:

MBETCH-2022-6499

REPATR

Job Status:

WORK FINISHED

Service Status:

RELEASED - RELEASED FOR SERVICE

Title:

MR1 92 DAY

Date:

Priority:

11/14/2022 06:54 PM

M4 - EVALUATE NEXT OPPORTUNITY

Service Request Tasks

Service Request: 1645-4582227

Comments:

Correction:

MUP IN2022-032 BOMBARDIER WHEEL SLIDE TESTING

COMPLETE ATTACHED WORK INSTRUCTIONS

Cause:

TESTED PASS WHEEL SLIDE TEST

Service Request: 1645-4635459

Symptom:

ACSES20 - ACSES NON-CONFORMING SPEED

Comments:

(T-142) ENGR C/O ACSES AT BAGLEY INTERLOCKING DUE TO ACSES GIVING A PTS AT THREE CONSECUTIVE INTERLOCKING

(5:54AM-7:02AM)

(T-108) ENGR C/O ACSES AT NORTHEY POINT DUE TO ACSES GIVING PTS AT ALL INTERLOCKINGS (9:51AM-10:33AM)

ACSES WAS CUT OUT DUE TO ATC SHOWING C/O INTERMITTENTLY. THE STEPS BELOW NEED TO BE DONE:

1, INSPECT ALL PCBS IN CARDFILE. MAKE SURE ALL PCBS ARE SECURED IN THE CARDFILE.

2. INSPECT THE PLUG ON AIU. MAKE SURE THAT THE PLUG IS NOT BROKEN AND THE IS CONNECTED TO AIU PROPERLY.

3. INSPECT THE WIRES IN ACSES ADU. MAKE SURE ALL WIRES ARE SECURED.

4. OPEN THE BOX WHERE ACSES CUT OUT SWITCH IS, MKE SURE ALL WIRES ON THE CUT OUT SWITCH ARE TIGHT AND ARE

NOT TOUCHING THE BOX.

Cause:

Correction:

REPLACED BATTERIES WAS GROUND IT AND RE PLACED EVENT ROCORDER ...AND RE PLACED FUSE IN CAB SIGNAL AND

TESTED OK PASS ACSES MAP 8 A....ATC MAGNA VALVE SWITCH WAS LOSE SHOW ATC CUT OUT RESECURE SWITCH

Non Service Request Tasks

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

HAISM, IBRA 11-14-2022 9:53AM MU PINS NEED TO BE CLEAN AND LUBD

DENNIS, ASI 11-14-2022 12:57PM DONE WITH J PULLANO

Task: B02-111-0150 - Jumper Cable-Blue Communication 27 Pin

Warranty: NO

WAC: 02 - CLEANED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBR# 11-14-2022 9:53AM COM PINS NEED TO BE CLEAN AND LUBED

DENNIS, ASI: 11-14-2022 12:58PM DONE WITH J PULLANO

Task: B03-234-0060 - Warning Bell Ringer Clevis

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH, GA(11-14-2022 9:21AM MISSING LOCKING NUT AND BOLT.

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Work Order: MBETCH-2022-6499

Task: B04-100-0010 - 480 Volts Ac Jumper O Rings

WAC: 09 - SERVICED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBRA 11-14-2022 9:54AM ALL 480 CABLE NEED SHRINK AND O RING

DENNIS.ASI 11-14-2022 12:58PM DONE WITH J PULLANO

Task: 804-112-0120 - Convenience Outlet 4 - Co4

Warranty: NO

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBRA 11-14-2022 9:54AM 120 OUT LET COVER BROKEN

Task: B04-112-0720 - Battery Charger

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBR#11-14-2022 10:04AM RE PLACE BATTERY

HAISM, IBR / 11-14-2022 10:05AM BATTERY GROUND IT

DENNIS, ASI 11-14-2022 1:02PM ENTIRE BATTERY SET (10) HAS BEEN CHANGED, DONE WITH J PULLANO

Task: B05-111 - Trap Door Arrangement

Warranty: NO

WAC: 01 - ADJUSTED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GA(11-14-2022 1:00PM ALL TRAPS NEED ADJUSTMENT.

Task: B05-113-0270 - Door Hanger/Suspension

Warranty: NO

WAC: 01 - ADJUSTED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GA(11-14-2022 9:24AM L1, L2, R2 ROLLER SCREWS LOOSE.

L1 DOOR HARD TO OPERATE.

Task: B05-113-0300 - Door Latch/Catch Assembly -Lower

Warranty: NO

WAC: 01 - ADJUSTED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH, GA(11-14-2022 9:28AM L2 DOOR CLOSE KEEPER LOOSE.

JAYSON.CLE 11-14-2022 3:51PM TIGHTENED

Task: B05-131-0120 - Decal - Danger 480 Volts

Task: B05-121-0270 - Decal - Emergency Window Removal

Warranty: NO

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GA(11-14-2022 12:57PM BOTH EXTERIOR REMOVAL & EMERGENCY ENTRY DECALS FADED. ENTRY DECALS NEED UPDATED ONES.

WAC: 02 - CLEANED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GA(11-14-2022 9:23AM #1 & #2 480 V DECALS DIRTY.

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Page 2 of 6 Report Date: 11/14/2022

Warranty: NO

Warranty: NO

Warranty: NO

Warranty: NO

Warranty: NO

Task: B05-151-0090 - Emergency Window Assembly

WAC: 02 - CLEANED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GAI 11-14-2022 9:26AM BOTH RED BEADING DIRTY.

Task: B05-151-0300 - Handle; For Gasket; Emergency Window

Reason: C - WEAR AND TEAR WAC: I - INSTALLED

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GA(11-14-2022 9:26AM SECURE TESTED PULL HANDLE.

Task: B05-151-0930 - Window Tool Box Emergency On Bomb Cars Uses Gasket 46 105

Warranty: NO

WAC: 09 - SERVICED Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

JOSEPH.GA(11-14-2022 9:30AM SECURE PRY BAR.

REPLENISH GLOW STICKS. (6)

SECURE COVER.

JAYSON.CLE 11-14-2022 3:53PM REPLENISHED AND RESEALED

Task: B08-113-0120 - Ground Strap - Truck To Axie - Trucks 1+2

WAC: 12 - REPLACED Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS Comments:

Task Notes

HAISM.IBRA 11-14-2022 9:55AM RE PLACE AXEL 2 GROUND STRAP

Warranty: NO Task: B08-113-0150 - Ground Strap - Car Body To Truck - Trucks 1+2

WAC: 12 - REPLACED Reason: C - WEAR AND TEAR

Comments:

Work Class: 9 - MR-1 DEFECTS

Task Notes

HAISM.IBRA 11-14-2022 9:56AM A END AND B END TRUCK GROUND STRAP BROKEN

DENNIS, ASF 11-14-2022 4:52PM DONE WITH J PULLANO

Task: B12-111-0030 - Fixture; Low Ceiling; Interior; 39

Reason: C - WEAR AND TEAR WAC: 09 - SERVICED

Work Class: 9 - MR-1 DEFECTS Comments:

Task Notes

HAISM.IBR# 11-14-2022 9:57AM RE LAMP 15 PASSENGER LIGHT AND CLEAN LENSES

DENNIS.ASI 11-14-2022 4:53PM DONE WITH J PULLANO

Task: B12-111-0060 - Fixture; Low Ceiling; Interior; 27

Reason: C - WEAR AND TEAR WAC: 09 - SERVICED

Work Class: 9 - MR-1 DEFECTS Comments:

Task Notes

HAISM, IBRA 11-14-2022 9:58AM A END VESTIBULE RE LAMP AND CLEAN LENSES

DENNIS.ASF 11-14-2022 4:54PM DONE WITH J PULLANO

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Task: B12-111-0090 - Fluorescent Tubes; F20T12

WAC: 09 - SERVICED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBRA 11-14-2022 9:58AM B END VESTIBULE RE LAMP AND CLEAN LENSES

DENNIS.ASI 11-14-2022 4:54PM DONE WITH J PULLANO

Task: B12-111-0120 - Fluorescent Tubes; F30T12

Warranty: NO

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM, IBRA 11-14-2022 9:59AM A END VESTIBULE RE PLACE TWO BALLAST

DENNIS.ASI 11-14-2022 4:54PM DONE WITH J PULLANO

Task: B12-112 - Electrical Locker Lighting

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBRA 11-14-2022 10:00AM RE LAMP ELEC LOCKER DENNIS, ASF 11-14-2022 4:55PM DONE WITH J PULLANO

Task: B12-115-0150 - Light Assy Indicating Signaloutside Bombardier Inc

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM.IBRA 11-14-2022 10:00AM RE LAMP BRAKE INDC LIGHT

Task: B12-120 - Platform Lighting

Warranty: NO

Warranty: NO

WAC: 12 - REPLACED

Comments:

Work Class: 9 - MR-1 DEFECTS

Reason: C - WEAR AND TEAR

Task Notes

HAISM, IBR # 11-14-2022 10:01AM RE LAMP PLAT FORM LIGHT

Task: B12-120-0120 - Lens Platform Light F/Superliner Ii Trans-Lite Ap-2465-2

WAC: 02 - CLEANED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM, IBRA 11-14-2022 10:01AM PLAT FORM LIGHT LENSES NEED TO BE CLEAN

Task: B12-121 - Headlight

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 9 - MR-1 DEFECTS

Comments:

Task Notes

HAISM, IBR # 11-14-2022 10:02AM HEAD LIGHT OUT

Task: B15-112 - Speed Recoder And Support Assembly

Warranty: NO

WAC: 12 - REPLACED

Reason: C - WEAR AND TEAR

Work Class: 2 - NON-SCHEDULED | Comments:

Task Notes

HAISM.IBR# 11-14-2022 2:47PM RE PLACED EVENT RECORDER

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Work Order: MBETCH-2022-6499

Task: B15-115-0180 - Pn-59 Rel a	y; Slow Pu				Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR				
Work Class: 9 - MR-1 DEFECTS	Comments:				
Task Notes					
HAISM.IBR/ 11-14-2022 2:49PM	RE PLACED L RELAY WAS DEFECT FROM NEW CALIBRA	TION SET.			
Parts		Qty Issued	Iss Price	Tax & Markup	Total Cost
2589839616-1 - RELAY; RELAY S	LOW PICK-UP DC PN 59	1.00	373.58	0.00	373.58
Removed Serial #:	Serial #:	§		f	
Task: C17-000 - General Coach T	asks Group				Warranty: NO
WAC: 12 - REPLACED	Reason: C - WEAR AND TEAR				
Work Class: 2 - NON-SCHEDULED	Comments:				
Davida	:	Qty Issued	Tee Drice	Tax & Markup	Total Cost
Parts	. E/TOOL LOCKED ON ALL COACUES EVCEDT	2.00	4.07	0.00	8,14
24/U3U1354-U - SEAL; SEAL; L/H PULLMANS	; F/TOOL LOCKER ON ALL COACHES EXCEPT	2.00	4.07	0.00	0127
Removed Serial #:	Serial #:				
2470301355-0 - SEAL; SEAL; R/H	; F/TOOL LOCKER ON ALL COACHES EXCEPT	2.00	3.13	0.00	6.26
PULLMANS	Control III.	}		a v m eqq	
Removed Serial #:	Serial #:	4.00	42 AF	0.00	55.79
2471401670-0 - SIGN; SIGN; EM INSTRUCTIONS; SINGLE HANDLE	ERGENCY EXIT/WINDOW REMOVAL	4.00	13.95	0.00	35.79
Removed Serial #:	Serial #:	1		,	
2471602518-0 - BATTERY; BATT	ERY NI-CAD AMF IHEP & HORIZON (W)	1.00	698.00	0.00	698.00
Removed Serial #:	Serial #:	,			
2600RRTC01-1 - CONTROL; TRAI	N CONTROL CALIBRATE AND REPAIR	1.00	1,372.58	0.00	1,372.58
Removed Serial #:	Serial #:	\$,	
2699900080-1 - RECORDER; REC	ORDER EVENT DIGITAL F/ QUANTUM EVENT	1.00	471.44	0.00	471.44
Removed Serial #:	Serial #:	!			
3616501311-0 - FIRST AID; FIRS	ST AID KIT 10PW-FRA SEALED KEOLIS	1.00	22.42	0.00	22.42
Removed Serial #:	Serial #:	1		ı	
Task: C17-210 - First Aid Kit					Warranty: NO
WAC: 09 - SERVICED	Reason: C - WEAR AND TEAR				
Work Class: 2 - NON-SCHEDULED	Comments:				
Task Notes	1				
JOSEPH.GA(11-14-2022 9:29AM	REPLENISH FIRST AID KIT. REPLENISH OUT OF SERVICE DECALS. (4) REPLENISH FLARES. (6)				
Task: C17-250 - Equipment Tran	sport Prep	••••			Warranty: NO
WAC: 06 - INSPECTED	Reason: C - WEAR AND TEAR				
Work Class: 2 - NON-SCHEDULED	Comments:				
	3				

Overhead

Small Parts - Labor: 0.00 Total Overhead Costs: 0.00

Small Parts - Parts: 0.00 Overhead Costs: 0.00

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Work Order: MBETCH-2022-6499

Messages

Other Open Work Orders

Work Order Number Type Status Scheduled Reason Service
Mbetch-2022-6107 Pm Open Ctc90-Pm

Mbetch-2022-6132 Repair Pending Mup
Mrdvyd-2020-4906 Repair Pending Mup

Unit Is 50 Days Late For Inspection Service Ctc45-Pm - Due Date 09/25/2022

Unit Is 8 Days Late For Inspection Service Ac Filter-30 - Due Date 11/06/2022

Unit Is 845 Days Late For Inspection Service Sand Ctc - Due Date 07/22/2020

Unit Is 26 Days Late For Inspection Service Coach-Cln-A - Due Date 10/19/2022 Unit Is 831 Days Late For Inspection Service Coach-Cln-Ex - Due Date 08/05/2020

Unit Is 831 Days Late For Inspection Service Coach-Cln-C - Due Date 08/05/2020

Component Automatic People Counter (Apc) Is Under Warranty - Expires 03/15/2025

WO Notes

Comments:

MR1 92 DAY

	SS14625553
Internal Parts Cost: \$3,008	171

Internal Labor Cost:	
THE HAILED FOR COST	
Commercial Parts Cost: \$0	00.0
Commercial Labor Cost: \$0	00.0

Commercial Farts Cost: \$0.00
Commercial Misc Cost: \$0.00
Commercial Tax & Markup: \$0.00
Equipment Usage Costs: \$0.00
Overhead Costs: \$0.00

Internal Total: \$3,008.21 Commercial Total: 0.00 Work Order Total: \$3,008.21



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Keolys

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

Coath	No.	164	15	Electrician C	EIVII	P. 10# 39	8
Date:		11	14.27	Carman 🛒	EMI	P.10# 72	
				<u>HVAC E</u>	lectrician		
0 0	Inspectinspec	et syster et equip et equip	m for leaks oment for loose oment for prope	alr filters A and B e or missing hardwar or grounding proper operation o	е	Completed Completed Completed Completed	
	•	Coolin at at	Check operat	lon •f all contactors. a), Blowers, & Conde Evaporator Colls + F	nser motors	Verified Verified Verified	
	&	'Heatlr ¤ Protec	_	verhead/Floor heat	FULL and FHZ open phases. They don't KIX.	Verified	<u> </u>
		n	Threshold her	aters or pocket heaters		Verified Verified	NA
	rá.	я	nal overload pro Klixons	otection		Verifie d	
	•	Fault l	Review fault l	·	,	Completed	<u> </u>
O.	Condu	ct Acld	test (Klt #QT20		Verfi <u>Carman</u>	fied Negative	
			iir grille A and t ir sponge A and	3 ends	<u> 24.11141</u>	Completed Completed	<u>X</u>
	•		ents along inter			Completed	\

KEOUS

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.

with an	annual leak rate greater than	15% of System Ca	ipacity must be re	:paned.
Coach	1645	Date 11-14	-22 Location	Bt)
Defect	NONE			
				- · · · · · · · · · · · · · · · · · · ·
Repair				
	<u>, , , , , , , , , , , , , , , , , , , </u>		B	
Amount	of Refrigerant recovered from	ı system _	19 ⁻	
Amount	of recovered Refrigerant reins	stalled in system _	_ <i>Q</i>	
Amount	of new Refrigerant charged to	o system _	<i>Q.</i>	
Amoun	t of Refrigerant drawn from s	tores _	0	

					5	Sing	le-leve	el									Bi	-level			
	55# SYSTEM									VS	R	S 3	3# SY	S	TEM						
#	%	Т	#	%	П	#	%	ı	#	%	П	#	%	#	%		#	%		#	%
1	1.8	ľ	12	21.8		23	41.8	İĪ	34	61.8	İΓ	45	81.8	1	3.0		12	36.4		23	69.7
2	3.6	ſ	13	23.6		24	43.6	١١	35	63.6	ΙΓ	46	83.6	2	6.1		13	39.4		24	72.7
3	5.5	Γ	14	25.5		25	45.5	ľ	36	65.5	Ī	47	85.5	3	9.1		14	42,4	l	25	75.8
4	7.3	ſ	15	27.3		26	47.3		37	67.3	lſ	48	87.3	4	12.1		15	45.5	Ĺ	26	78.8
5	9.1	T	16	29.1		27	49.1	İ	38	69.1	١ſ	49	89.1	5	15.2	1	16	48.5		27	81.8
6	10.9	Γ	17	30.9		28	50.9		39	70.9	١٢	50	90.9	6	18.2		17	51.5		28	84.8
7	12.7	ľ	18	32.7		29	52.7	İ	40	72.7	١٢	51	92.7	7	21.2		18	54.5	.	29	87.9
8	14.5	ľ	19	34.5		30	54.5		41	74.5		52	94.5	8	24.2		19	57.6		30	90.9
9	16.4	ľ	20	36.4		31	56,4	İ	42	76.4		53	96.4	9	27.3		20	60.6		31	93.9
10	18.2	Ī	21	38.2		32	58.2	ĺ	43	78.2		54	98,2	10	30.3		21	63,6		32	97.0
11	20.0	İ	22	40.0		33	60.0	İ	44	80.0	lt	55	100.0	11	33.3		22	66.7		33	100.0

Alstom	Bi-level
Alte 13#	Circuits
#	%
1	8
1 2 3	15
3	23
4	31
5	38
I 6	46
7	54
8	62
9	69
.10	77
11	85
12	92
13	1.00

Has the system been charged in the past 12 \mbox{m}	onths?					
f 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	**************************************					
(No Vigo	on of					
Technician	Foreman					

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

Keolis

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)

С	ELECTRICIAN LABORER CARMEN OACH CLEANER	SIGNATURE	EMP. ID # 3455			MBER: <u>↓</u> .ETED: <u>↓</u>	645 1412=
RE	QUIRED TOOLS: Oil	Test Kit TA-1, Fluk	e Multieter with cla	amp-on Ammeter	and th	ermocoup	le
	att	achments, Megohn stle Brush, Rubber	neter, Electronic Le	eak Detector, HVA			
	INSTRU	FETY PRECAUTIC RICTLY ADHERED JCTIONS FOR DE TO STARTING AN	TO. FOLLOW SP FERMINING IF EC	ECIFIC PROCED	URE		
1						PASS	FAIL
	Verify refrigerant leve If none visible refer to	= =		is visible.		V	
	Inspect using visual a oil at pipe connection				of		
	Vacuum air intake co flow.	mpartment and che	eck evaporator par	ı and drains for wa	ater (/		
4.	Wash return air grill.				C		
5.	Check all motors and	mounts for secure	ment and deteriora	ation/damage.			
6.	Inspect air flow boots	for integrity and pr	oper attachment.				
7.	Inspect all contactors blower motors.	, that control comp	ressor, condenser	fan, heaters, and			
8.	Blow all control boxe	s with air to clean a	ny debris from the	m.			
9.	Clean dirt and dust fr Check for proper sec	•	nsors and tempera	ature control units.			
10.	Replace air filters and	d Bad Odor Sponge	es.				

PASS

FAIL

11.	Megger test compressor, Megohmeter.	condenser fan, and blov	wer	motors for grounds wit			
12.	2. 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 Ω). See Chart in appendix A (May through November only)						
13.	(May through November only) 3. Test resistance values of all protective heaters (10 to 50 Ω 's). Megger test from heater circuit to ground (>2M Ω).						
14.	14. Inspect and test operation of air flow switch and overhead heat thermostat (Klixon).						
15.	5. Inspect all motors and record current draw on all phases.						
	EVAPORATOR BLOW	/ER					
	MOTOR #1	CONDENSER I	FAN	I MOTOR #1 CO	MPRESSOR MOTOR		
	Phase A 1.8	Phase A	2		hase A 23.8		
	Phase B 1.7	Phase B	4		hase B 22.7		
	V		2		hase C 22,\		
	Phase C 1.7	Phase C	4	<u> </u>	idse C <u>LL, (</u>		
	EVAPORATOR BLOW	/FR					
	MOTOR #2	CONDENSER I	FΔN	LMOTOR #2			
	Phase A 1. a	Phase A	Ž	. 1			
	- [· · · · · · · · · · · · · · · · · · 	Phase B		<u> </u>			
	Phase B		<u></u>	2, 2			
	Phase C 1.7	Phase C					
16.	Check for proper rotation	and air flow of condense	er fa	an and blower motors.			
17.	Check thermal expansion						
	PUT HVAC SYSTEM C	ON AUTOMATIC AND C	HE	CK FOR PROPER OP	ERATION		
10	Between Nov 1st through	May 1et annly manifold	ادی ا	lace to high and low si	des 🔲 🔝		
10.	of system, apply diagnos						
	record Freon pressures.	to equipment (1201 De	,, ().	operate the eyetem a			
	No. 1	END		No.	2 END		
	Line valve THX	Modulation THX		Line valve THX	Medulation THX		
	Low Side	Low Side		Low Side	Low Side		
	Suction Pressure	Suction Pressure]	Suction Pressure	Suction Pressure		
				_			
	Saturation Temp	Saturation Temp		Saturation Temp	Saturation Temp.		
	(from chart)	(from chart)		(from chart)	(from chart)		
	Suction Temp	Suction Temp		Suction Temp	Suction Temp		
				AND 1 1 200 100 100 1 1 100 10 100	augenus a s		
	SUPERHEAT	SUPERHEAT		SUPERHEAT	SUPERHEAT		
		111					
	Ambient Temperature	<u>High</u>	ان ا	<u>αe</u> Discharge Pressure			
	Ambient Temperature			Discourage a resoure			
	· /						

PASS FAIL

19.	Charge system as necessary to maintain Freon level 1/2 full on lower sight glass. (Nominal: 270 - 275 psig)		
20.	Cover condenser coils with cardboard to cause #2 condenser fan to operate. (Nominal: 250 psig) START PRESSURE:		
21.	Restrict compressor suction valve to lower system pressure, until shutdown. (Nominal: 20 to 25 psig) SHUTDOWN PRESSURE:		
	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: 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:		
	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: (Nominal: 63 - 65 psig) 2nd stage unloader LOADED: (Nominal: 51 - 55 psig) 2nd stage unloader LOADED: (Nominal: 68 - 70 psig) 1st stage unloader UNLOADED: (Nominal: 56 - 60 psig)	+6	
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°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. (Appox. 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)

Reviewed by

FOREMAN 2156

MANAGER //

APPENDIX A

Resistance Chart

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



EMERGENCY LIGHTING DURATION TEST RECORD

All Single-Level Coaches

En	sure e	merge	ncy ba	llasts ha	ve been	charged	l for 30 m	inutes.			
At		All emo	ergenc	y lighting	g is funct	ioning p	ergency l	ights were	Record any fai replacements		
END					L	IGHTING A	RRANGEMEN	T		15 16 77	#1 END 200 - 258 SERIES
ND			5	G t	LI	GHTING AI	RRANGEMEN	T	11 12 13 14		#1 END 350 -389 SERJES
ND			5		1.1	GHTING AI	RRANGEMEN	10 T		15 6	#1 END 600 - 1600 SERIES B
ND					L	GHTING AI	RRANGEMEN	T]	#1 END 500 - 1500 SERIES B

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

Keolis

MAINTENANCE ANALYSIS PROGRAM

COACH BATTERY CELL VOLTAGE

COACH NO. る大 LOCATION: CI DATE: 1/1/14/22

NOTE: OPEN BATTERY KNIFE SWITCH BEFORE MEASURING BATTERY CELL VOLTAGES

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led	1-4	- Z	Î
7.1	2	7)[
7	=	1:4	1-1
717	7	11/4/1	14
4)(4)	j.		1.4
14	2	100	4.1
·	,	1,4	1,4
		114	1.4
		14 hil hil hil	14 Ji4 114 114 por
		1,4	1,4
		44	ky

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 BAC

KCS-ME-FO-210033 rev.1

FOREMAN IN CHARGE

1CER 08/17/201

08/17/2017 Pg. 1 of 2

Keolis

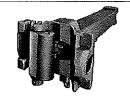
MBTA COMMUTER RAIL COACH WHEEL SLIDE REPORT

vehicle no: 🗘	645 DATE:	11/14/22	LOCATION: CIT
WHEEL SLIDE	E CONTROL UNIT:		
	Wheel Slide Control Un performance test	it System	COMMENTS:
	Electronic panels, cards lights and fuses	, wires, test	
—	Speed sensor resistance	check	
# # #	3 974	Signature:	De Ashe
PNEUMATICS	•		COMMENTS:
	A & B valve operation		
)		Signature:	Jagloro DDF6
SPEED SENSO	RS AND CABLES:		COMMENTS:
	Speed sensor cables		
	Proper sensor		
	Speed sensor gap	(
	gear	Signature:	1) en Apla
DEFERRED W	<u>ORK</u>		Y CODES
ITEM		A - HOLD CAR B - SCHEDULE C - MONITOR	FOR REPAIR RECOMMENDED SEVERITY CODE
SYSTEM STAT	TUS:.		
	FUNCTIONING	Foreman	
1	NOT FUNCTIONING	Signature	

Keous

Coach #: 1645

COACH COUPLER INSPECTION REPORT



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:	(199	Employee: OCGUOTE
Employee ID:	Fb	Employee Signature:
Foreman:	7. TEN	Foreman Signature:
KCS-ME-FO-210072 Rev.	. 4	11/6/2018 Coupler Inspection Report

Ked	olys	
Coach #:	1645	,

COACH WHEEL REPORT



WHEEL MEASURE

			M. 16. 0 1 200 200 200	ILAUUIL_	-	rest bate	· 1 / // = 3
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	11/16"	1411	27/1/0"	R1	11/11/0"	114"	23/5"
L2	116"	1/4	23/8	R2	11/16'	1/4"	23/81
L3	1/1/0"	11/4"	25/16"	R3	11110	11/4	20/16"
L.4	1116	11/01"	27/16"	R4	11/16"	11/4"	23/8"

Comments:

TOP OF RAIL CLEARANCE HEIGHT

со	UPLER HEIGHT	PI	LOT HEIGHT	FLOOR H	EIGHT
(MAX. 34	1 1/2" MIN. 32 1/2")	(MA	X. 6" MIN. 4")	(51 in±1	1.0")
FRONT	3374"		11/1/11	1RSO/2"	11301/4
REAR	343/8"	FRONT	7'12	2R <u>U75K</u> /"	21 <u>57/4</u> "

AIR SPRING VERIFICATION INSPECTION

	·		
AIR SPRING HEIGHT	R2 <u>~1/4</u> · 1	AIR SPRING PRESSURE	NO. 1 ENDLBS.

SINGLE CAR TEST PRESSURES

J	ASP	ВСР	FULL SERVICE	EMERGENCY
DEFLATED	0	DEFLATED	63	74
AW0	67	AW0	64	77
AW3	73 - S	AW3	72	93

Employee 1000 # 2933

ficer: 1/1/hl/ #3080

KEOUS

Speed and Event Recorder Test 1600 Series Coaches With Quantum Recorder

Instructions on the reverse side: Coach # /6 45

1.	Axle	1	Wheel	Size:	3	<u> </u>
----	------	---	-------	-------	---	----------

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

		-	the state of the s
Section A		Speed Testing Chart	
Speed to Test	Frequency	Event Recorder Readin	g
20 mph	350 Hz	2c mp	h
.40 mph	700 Hz	4 <i>0</i> , .mp	h
60 mph	1050 Hz	60 mp	h
80 mph	1400 Hz	80 mp	h
100 mph	1751 Hz	. / 0 c mp	h

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 Reservoly 110 PSI	Verify On/Off - When Main Reservoir is above 110 psl = On (1)
Throttle Posjelons	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 Alerter 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)
ACSES Overspeed	Verify On/Off - In ACSES Penalty = Off (0)
ACSES Cutout	Verify On/Off - ACSES Cut In= Off (0) ACSES 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)
ACSES Status -	Should show "ACSES Equipped"

3.	All Inputs operate as intended in Section A and B	: <u>Yes</u>	<u>No</u>	(Circle One)
4	Information Downloaded and Verified:	Vac	Mo	(Circle One)

Electrician Performir	ng Test:_	Mokak	PHIL	
Employee Number:				11-14-22

KEOUS

AUTOMATIC TRAIN CONTROL RELAY CHECK

LOCOMOTIVE N	o: 1645	DATE: 11-14-22
RELAYS	SERIAL NUMBER	RELAY TEST DATE
OSR	3385242	6-16-22
LRK	B.5089171	6-28-22
SP	L9035.12	6 = 28 - 22
LP	<u> 4921491</u>	6-16-22
RP	B 3286015	6-16-22
PS	B3286048	6-16-22
$\mathbf{v}\mathbf{z}$	B 3886062	6-28-22
A	1281911	6-28-22
R	L903127	, 6-16-22
\mathbf{L}_{c}	4979248	4-122
MR	B4686015	6-28-22

PHW-ACSES MAP 8						
Keolis Maintenance Analysis Program						
. Advanced Civil Speed Enforcement System Inspection						
(Instructions On Reverse Side)						
1.) Vehiclé I.D.: 1645	Railroad:	3.7 A	Periodic Fallure (Circle One)			
Location: 1387	Date: 11-14-62	Time: 7., 80. □ AM	I PM			
2.) Are the Air Brake Forms in Date?						
3.) ACSES Magnet Valve 3 year expiration date OK until next inspection? LY Yes LI No						
4.) Performed and Passed the Transponder Test?						
5.) Visual Inspection						
· D Antenna OK . D CAV OK D Speed Sensor OK D Roof Antenna OK						
6.) Wheel Diameter Calibration						
Measured 32 Inputted 32.						
7.) Circuit Board LED Operation OK 8.) Brake Pipe Pressure in Penalty 72 PST.						
9.) Self-Test Segments (7 Steps)						
1. [] OK 2. [] OK 3; [] OK 4. [] OK ·5. [] OK 6. [] OK 7. [] OK						
10.) Event Log Downloaded OK 11.) Data Elements Recorded OK						
12.) Computer Software Version Revision Level - Version T4.5						
13.) Deproper Configuration Check Railroad = MBTA Locomotive Number = Enter # Deproper Vehicle Type Actual Wheel Diameter Max Vehicle Speed Set to 90mph Proper Train Type - "C" for all equipment except 3248,3249 and 904 Switchers which should be "E"						
14.) Software Configuration: Main (7-8) Rev: 9 Aux IO (0) Rev: 0 Tach1 (3-4) Rev: 4 Comm (2) Rev: 1. Config (1) Rev: 1 ADU1 (1) Rev: 1. Datalog (Recorder) (3) Rev: 0 Comm (2) Rev: 1. Config (1) Rev: 1 ADU1 (1) Rev: 1 Datalog (Recorder) (3) Rev: 1 Config (1) Rev: 1						
15.) Electrician Signature: Foreman Signature: EMP# - 16273						

(CEO	Control Coach 1500 and 1600 Cab Signal Test															
Data Sheet and Procedure																
1. CONTROL COAC				ATE	:				TYPE OF INSPECTION (circle one)							
16	45	1387 11			-14.	- 27		Perlodic	45 Day Road Fallu				l Fallure			
2.VISUALLY INSPECT ALL CAB SIGNAL COMPONENTS 🗌 (CHECK BOX IF NO ISSUE				SUES	S)		أعبيب التناجيب بالمالا	URE RELAY O		RE GOOD FOR	THE NEXT	60 DAYS				
3. RECEIVER BAR F (6-1/2" TO 9-1/2")	RECEIVER BAR HEIGHT 5-1/2" TO 9-1/2") ENGINEER SIDE FIREMAN SI			IDE YES [IV NO C] IF NO, REPLACE THE AFFECTED RELAYS AND RECORD ALL DATES IN THE STEP 5 AND ALL SENIAL NUMBERS IN REMARKS												
5. LIST DATES OF A	ALL VITAL RELAY:				50	L: / .		22 MR: 6-26 VZ: 6.22								
OSR: 6 - 22	PS: 6-72	SP: 6 - 2					RP: 6-22 LRK: 6-22				_ (
6. ATC MAGNET VALVE	DATE:	3502 SELF TE PCB	ST C	DATE:			PENALTY BRAKE DATE: PRESSURE 2 - 22 DATES MUST COMPLY FOR I			R NEXT	60 DAYS					
7.		ISTANCE MEASURE	D IN (OHMS		-Louis)C - T	ERM 50 & 51	***************************************	VDC	;	
WIRE/TERMINAL TO CARBODY GROUND 1 MEGAOHM MAXIMUM RESISTANCE (DO NOT USE MEGGER)			ļ	8. SYSTEM VOLTAGE 32VDC +/- 1VDC - TERM 50 & 51VDC 9. MASTER RELAY PICKUP CURRENT FOUND LEFT												
KAWASAKI COACH	MBB COACH	BOMBARDIER COACH	F	OUND	l.EFT		(1.3-1.6AMPS RAIL CU		IL CURR	CURRENT)		1.50		1.50		
<u> </u>	<u>r </u>	<u>, </u>	 				IO. PENALTY APPLICAT				. 6			0'		
1 /	1 /	2	-}	56	00	_	11. ACKNOWLEDGER T		GER TIM							
8	8	8	_ _) (·	3	$\overline{}$	12. RECEI VOLTAGE			LOW*		9.10	ACV	. ' '	/ C ACV	
9/	9	9		1	07		13, DEPAI			LOW*	6.0	99.9	ACV		.g ACV	
14/		14		1	00		SWITCH I	N 100H	ΙZ	HIGH	97	7. /c	ACV		. /6 ACV	
15	As	15			00	-	POSITION, TERM 1&2		٠	1667/27		ACV		ACV		
\ \	50	50	 ~	30	06		14A, WHEEL DIAMETER OF A			32			2	2		
51	51	51	+ -) (00				·					<i>-</i>		
92	88	88	tx	7	3/		I5. COND □ OK			SPECT AND CED AND/O		LIGHTS AND PAIRED	ALARM		•	
94	89	89	10	100	00		ité encen	COVE	DAIGD BG	ADD DADT	A N827	אואם	J. C. J	/ e-n	1201	
\			10			_	16. SPEED GOVERNOR BOARD PART AND P/N (45) 673 3201 SERIAL NUMBER USED ON THIS COACH S/N 339 6639									
***N(D WITH NEWER ST 7 IS NOT APPLICAB		CODER					4E (FROM		21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3/11		<u> </u>		
17, DECODING RELA	AV CHODENT	MIMIM	4UM O	F 48 MA.		-	CHANGE OF CODE TO SOUNDING OF ALARM) FOUND				LEFT					
WITH 2 AMPS IN RA		FOUND	T	1	.EFT	_			120 COD			SEC.	4 SEC		SEC.	
"A" RELAY IN	180 CODE	65	MA.	6	<u> </u>	MA.	120 CC	DE TO	75 CODE	Ε	4	SEC.		4		
"R" RELAY IN	120 CODE	65	MA.	6		٩A.	75 CC	DE TO	STEADY		2_	SEC.		2	SEC.	
"L" RELAY IN	75 CODE	65	MA.	B	7 1	٩A.										
	<u> </u>	MAXIMUM OF 5 MA.			T	FREQUENCY (HZ) MI					MPH					
		FOUND		Ļ	.EFT			CODI	-	FOU	ND	LEFT	FOUN	D	LEFT	
"A" RELAY IN	120 CODE	1.5	MA.	1.	5- 1	٩A.	STEAD	Y - WI	IITE/RED	3 6	71	391	24	$oxed{oxed}$	21	
"A" RELAY IN	75 CODE	1.5	MA.	1.	5 1	IA.	75 C	00E - 1	'ELLOW	50		560	ري ري		3,	
"R" RELAY IN	75 CODE		MA.	-	· 5 '	4A.	120 C	ODE -	/EL/GRN	8,	4	814	40		46	
20, TRAIN CONTROL CUT-OUT SEAL NUMBER 080311				180 (CODE -	GREEN	16	10	1610	9,		91				
EVENT RECORDER CUT-OUT SEAL NUMBER $oldsymbol{\mathcal{U}}$					NON C	AB TE	RRITORY	140	6	1406	80		€0			
TRAIN CONTROL COVER SEAL NUMBER OR LOCK 10 C II																
21, PERSON CONDUCTING THE TEST:																
·																
SIGNATURE: TITLE: C/SCIP.CAN																
						-								_	 	
For "Failure Tests", Fax completed document to 617-222-8540 with an explanation of the																

KCS-ME-FO-210035 Rev. E (formally USS TCT 1500-1600-1700)

KEOUS

AUTOMATIC TRAIN CONTROL RELAY CHECK

LOCOMOTIVE NO: 1645	DATE: 11-14-22

RELAYS	SERIAL NUMBER	RELAY TEST DATE
OSR	3385242	6-16-22
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RP	B 3286015	6-16-22
PS	B3286048	6-16-22
VZ	B 3886062	6-28-22
A	1281911	6-28-22
R	L903127	. 6-16-22
\mathbf{L}_{c}	4979248	4-122
MR	B4686015	6-28-22
Ph		
Electrician		Foreman