NEW FRONTIERS. NEW DREAMS	Volume III: Maintenance Manual	DOC No. RS(3R)/3B/MM/A4			
	Part B: Preventive Maintenance Schedules and	DATE	25-JULY-2022		
	Checklists	REV. No.	04		
	Chapter 2: Maintenance Checklists				
	Section 2.1: "Daily" Service Checklist	PAGE No.	MM-02-01-01-9		

3 Chapter 2: Maintenance Checklists

4 Section 2.1: Maintenance Checklists for Daily Check

4.1 Sub-Section 2.1.1: "Daily" Service Checklist

Title : 'Daily' Service Checklist				Checklist No: 3B-02-01-01			
Daily service check	Runi Dista	_	Service Time				
Maintenance Interval:			-		Every day		
Maintenance Tolerance:			-		-		
Downtime	Man I	Man Power		Skill Requirements			
2.5 hrs	2.5 hrs 2 persons per train		Mechanical & Electrical				
Train No.		Date and Time					
Checked by		Approved	ed by				
1 Tools and Equipme	nt						
Markers							
Torches							
Dust clothes							
Radio							
Safety Helmet							
Safety Vest							

Work Preparation

Hand Gloves

Volume III: Maintenance Manual	DOC No. RS(3R)/3B/MM/A4				
Part B: Preventive Maintenance Schedules and	DATE	25-JULY-2022			
Checklists	REV. No.	04			
Chapter 2: Maintenance Checklists					
Section 2.1: "Daily" Service Checklist	PAGE No.	MM-02-01-01-10			

- 1. Wear the Safety Helmet and Vest
- 2. Safety Inspection and Energizing the third rail power supply line
- 3. Start-up the train
- 4. Make sure that all S/W are in normal position

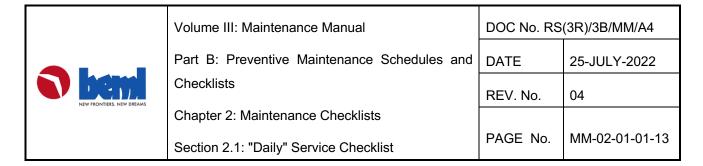


Volume III: Maintenance Manual	DOC No. RS(3R)/3B/MM/A4			
Part B: Preventive Maintenance Schedules and	DATE	25-JULY-2022		
Checklists	REV. No.	04		
Chapter 2: Maintenance Checklists				
Section 2.1: "Daily" Service Checklist	PAGE No.	MM-02-01-01-11		

Took No.	Equipment	Maintenance Actions	Арр	Car licab	ility	Besulte	Damark
Task No	Equipment	Maintenance Actions	DM	Т	M	Results	Remark
Task 1. Ca	ab 1 Equipme	nt Condition Check					
1	Cab facilities	Check the appearance in Cab. Check the Fire extinguisher. Check the following switches and indicators; 1. All fault indicators are OFF/not glowing. 2. All switches are located in default					
		position. Brake Loop Cut-out, Safety Cut-out, Door Proving Loop Cut-out, EB Selector Switch are Normal and sealed.					
2	Cab side door	Check for proper operation, locking and their status on TCMS	Х				
3	Partition door	Check for proper operation, locking from both sides.	Х				
4	CCTV	Check CCTV operation.	Х	Х	Х		
5	MCB & Relay Panel	Check the following: 1. All MCBs are set at ON position (except spare MCBs) 2. All inspection covers for MCB panels & relay panel are closed and locked.		X	X		



6	Brake System	1. Check the Brake page on TCMS	Х	Х	Х	
		VDU.				
		2. Inspect MR Pressure (8 to 10 bar)				
		and BP pressure (5 bar) from				
		gauges in the Cab.				
		3. Check the application and release				
		of Service Brake				
		4. Check the application and release				
		of Emergency Brake by applying				
		Emergency brake push button				
		and BP drivers brake valve.				
		5. Check the application and release				
		of Emergency brake in both normal & redundant mode.				
		6. Check all safety switches should				
		be kept at default/normal position.				
		7. Check operation of Deadman safety device.				
_	Oak Paki 0	-				
7	Cab light & Console light	Check driving console light by operating Driving Console Light				
	Console light	Switch				
8	Head light and	Check head lights by operating	Х			
	Tail light	Head Light Switch (HLS).				
		Check tail lights functionality				
9	Exterior	Check the function of Train Number		Х	Х	
	Indicator	Indicator(TNI) & Destination				
		Indicator Front(DIF), Door Indicator				
		Lamps				



10	PA & PIS	Checking if manual announcement by MCP can be made.	X	X	X	
		Check if manual announcement by ACP can be made.				
		Check if Cab - Cab intercommunication by MCP can be made.				
		Check if Cab - Cab intercommunication by ACP can be made.				
		5. Check PA/PIS, CCTV healthiness (Advanced Function) from PAPIS HMI - Device Overview.				
11	Passenger Saloon Door	Open/close the Passenger Saloon doors in standby mode by pressing two push buttons.	X	X	X	
		Check the results while opening and closing door, Check that doors open and close without obstruction on TCMS Display.				
		After opening of door check all outside and inside lamp are glowing				
		After closing of door check all outside and inside lamp are not glowing				
		After closing of door, check the ADCL status it should be energized.				

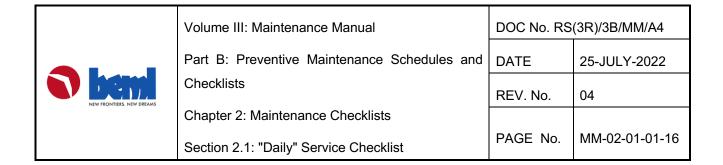
NEW FRONTIERS. NEW DREAMS	Volume III: Maintenance Manual	DOC No. RS(3R)/3B/MM/A4		
	Part B: Preventive Maintenance Schedules and	DATE	25-JULY-2022	
	Checklists	REV. No.	04	
	Chapter 2: Maintenance Checklists			
	Section 2.1: "Daily" Service Checklist	PAGE No.	MM-02-01-01-14	

						1
	Air Conditioner	 Turn on the VAC systems and check the cooling status Check TCMS Display for any faults of VAC Units. Check the function from TCMS 		X	X	
		(OFF & Reset Mode)				
13	TCMS	Check from TCMS display that there is no faulty equipment on the train.	X			
		Check door screen for faults and cut-out switch position.				
		Check brake screens for brake controller and cut-out switch position.				
		Check powering screen for position of VVVF.				
		Check Auxiliary screen for APS position.				
		6. Perform on-board test for APS, BECU, VAC, DCU.				
		Function test through TCMS Interior Saloon light.				
14	Air Horn	Check the operation (Dual tone)	Х			
	Windscreen and wiper	Check the operation (Low & High speed, wash mode)	X			
		2. Check for glass view & scratch				
	T.O seat / Footrest assembly	Visual check of TO Seat / Footrest assembly	X			
Tack 2 Sa	loon Equipme	ent Condition Check		1		<u>I</u>

Task 2. Saloon Equipment Condition Check

NEW FRONTIERS. NEW DREAMS	Volume III: Maintenance Manual	DOC No. RS(3R)/3B/MM/A4		
	Part B: Preventive Maintenance Schedules and	DATE	25-JULY-2022	
	Checklists	REV. No.	04	
	Chapter 2: Maintenance Checklists			
	Section 2.1: "Daily" Service Checklist	PAGE No.	MM-02-01-01-15	

17	Interior Facilities	Visual inspection on saloon interior (Strap hanger, Saloon light(100%) DIL, Speakers panel locking check Fire extinguisher, PIB, Passenger Seats, Draught screen glass, Gangway, Bulkhead panels, etc).		X	X		
18	TFT, Speaker	Check the status of TFT & speaker.	Х	X	X		
Task 3. Ca	ıb 2 Equipmer	nt Condition Check					
(Technicia	ın A in Cab1 a	and B in Cab2 check at the same	time)			
19	Cab 2	Check Cab to Cab call with Cab 1					
		Change operation cab from Cab 1 to Cab 2	X				
		3. Check Cab 2 equipment as per Task 1 above.					
		4. Open the saloon doors on the both side & check as per point 11					
Task 4. Ex	cterior						
20	Window glass	Check if there are no cracks or defects in the window glass	Х	Х	Х		
21	Flasher Light	Check the flasher light function in MS FOR/REV & SCS cut-out mode.	X				
Task 5. Ur	nder floor						
22	Safety Switches	All safety switches should be kept at default / normal position.	Х	X	Х		
			_	_		 	



23	Parking Brake test	 Put the MS at STANDBY position and apply / release the parking brake by push button. Check the status on TCMS. 	X	X	X	
24	Piping	Check the piping for any audible air leakage.	Х	Х	X	
		If any leakage noticed, same to be attended.				
25	Bogie	 Check for any loose or hanging component in under frame specially Mono-link, Gear Box, Reaction arm, Damper, Anti-roll bar, levelling valve Visual inspection of brake pads, brake calliper equipment for their mounting & brake pad split pin. Visual inspection of primary spring, air spring and air spring (audible) to be checked. Visually check Gear box for oil leakage and any other abnormalities 	X	X	×	
26	Under frame equipment	Visually check all under frame equipment cover presence and their fixation	Х	Х	Х	
27	Current collector	Visually check CCD Assy and CCD fuse	Х	Х	Х	
28	Mechanical coupler and Electrical Jumpers	Visually check for any abnormalities	X	X	X	



Volume III: Mainten	ance Manual		
Part B: Preventive	Maintenance	Schedules	and

Checklists

Chapter 2: Maintenance Checklists

Section 2.1: "Daily" Service Checklist

DOC No. RS(3R)/3B/MM/A4				
DATE	25-JULY-2022			
REV. No.	04			
PAGE No.	MM-02-01-01-17			

29	Exterior	Visually check for any abnormalities	Х	Χ	Χ	
30	FDS	Check Train FDS status in FDS-HMI	Х			