
	Volume III: Maintenance 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-02-01-01-9

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			Running Distance	Service Time
Maintenance Interval:			-	Every day
Maintenance Tolerance:			-	-
Downtime		Man Power		Skill Requirements
2.5 hrs		2 persons per train		Mechanical & Electrical
Train No.		Date and Time		
Checked by		Approved by		
1 Tools and Equipment Markers Torches Dust clothes Radio Safety Helmet Safety Vest Hand Gloves				
Work Preparation				

	Volume III: Maintenance 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-02-01-01-10


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 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-02-01-01-11


Task No	Equipment	Maintenance Actions	Car Applicability			Results	Remark
			DM	T	M		
Task 1. Cab 1 Equipment 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.	X				
2	Cab side door	Check for proper operation, locking and their status on TCMS	X				
3	Partition door	Check for proper operation, locking from both sides.	X				
4	CCTV	Check CCTV operation.	X	X	X		
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	X		

	Volume III: Maintenance 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-02-01-01-12

6	Brake System	1. Check the Brake page on TCMS 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.	X	X	X		
7	Cab light & Console light	Check driving console light by operating Driving Console Light Switch	X				
8	Head light and Tail light	Check head lights by operating Head Light Switch (HLS). Check tail lights functionality	X				
9	Exterior Indicator	Check the function of Train Number Indicator(TNI) & Destination Indicator Front(DIF), Door Indicator Lamps	X	X	X		


	Volume III: Maintenance 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-02-01-01-13

10	PA & PIS	1. Checking if manual announcement by MCP can be made. 2. Check if manual announcement by ACP can be made. 3. Check if Cab - Cab intercommunication by MCP can be made. 4. Check if Cab - Cab intercommunication by ACP can be made. 5. Check PA/PIS, CCTV healthiness (Advanced Function) from PAPIS HMI - Device Overview.	X	X	X		
11	Passenger Saloon Door	1. Open/close the Passenger Saloon doors in standby mode by pressing two push buttons. 2. Check the results while opening and closing door, Check that doors open and close without obstruction on TCMS Display. 3. After opening of door check all outside and inside lamp are glowing 4. After closing of door check all outside and inside lamp are not glowing 5. After closing of door, check the ADCL status it should be energized.	X	X	X		

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

12	Air Conditioner	1. Turn on the VAC systems and check the cooling status 2. Check TCMS Display for any faults of VAC Units. 3. Check the function from TCMS (OFF & Reset Mode)	X	X	X		
13	TCMS	1. Check from TCMS display that there is no faulty equipment on the train. 2. Check door screen for faults and cut-out switch position. 3. Check brake screens for brake controller and cut-out switch position. 4. Check powering screen for position of VVVF. 5. Check Auxiliary screen for APS position. 6. Perform on-board test for APS, BECU, VAC, DCU. 7. Function test through TCMS Interior Saloon light.	X				
14	Air Horn	Check the operation (Dual tone)	X				
15	Windscreen and wiper	1. Check the operation (Low & High speed, wash mode) 2. Check for glass view & scratch..	X				
16	T.O seat / Footrest assembly	Visual check of TO Seat / Footrest assembly	X				

Task 2. Saloon Equipment Condition Check

	Volume III: Maintenance Manual		DOC No. RS(3R)/3B/MM/A4	
	Part B: Preventive Maintenance Schedules and Checklists		DATE	25-JULY-2022
	Chapter 2: Maintenance Checklists		REV. No.	04
	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	X		
18	TFT, Speaker	Check the status of TFT & speaker.	X	X	X		

Task 3. Cab 2 Equipment Condition Check

(Technician A in Cab1 and B in Cab2 check at the same time)


19	Cab 2 facilities	1. Check Cab to Cab call with Cab 1 2. Change operation cab from Cab 1 to Cab 2 3. Check Cab 2 equipment as per Task 1 above. 4. Open the saloon doors on the both side & check as per point 11	X				
----	------------------	--	---	--	--	--	--

Task 4. Exterior


20	Window glass	Check if there are no cracks or defects in the window glass	X	X	X		
21	Flasher Light	Check the flasher light function in MS FOR/REV & SCS cut-out mode.	X				

Task 5. Under floor

22	Safety Switches	1. All safety switches should be kept at default / normal position.	X	X	X		
----	-----------------	---	---	---	---	--	--

	Volume III: Maintenance Manual		DOC No. RS(3R)/3B/MM/A4	
	Part B: Preventive Maintenance Schedules and Checklists		DATE	25-JULY-2022
	Chapter 2: Maintenance Checklists		REV. No.	04
	Section 2.1: "Daily" Service Checklist		PAGE No.	MM-02-01-01-16

23	Parking Brake test	1. Put the MS at STANDBY position and apply / release the parking brake by push button. 2. Check the status on TCMS.	X	X	X		
24	Piping	1. Check the piping for any audible air leakage. 2. If any leakage noticed, same to be attended.	X	X	X		
25	Bogie	1. Check for any loose or hanging component in under frame specially Mono-link, Gear Box, Reaction arm, Damper, Anti-roll bar, levelling valve 2. Visual inspection of brake pads, brake calliper equipment for their mounting & brake pad split pin. 3. Visual inspection of primary spring, air spring and air spring (audible) to be checked. 4. Visually check Gear box for oil leakage and any other abnormalities	X	X	X		
26	Under frame equipment	Visually check all under frame equipment cover presence and their fixation	X	X	X		
27	Current collector	Visually check CCD Assy and CCD fuse	X	X	X		
28	Mechanical coupler and Electrical Jumpers	Visually check for any abnormalities	X	X	X		

	Volume III: Maintenance 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	X	X	X		
30	FDS	Check Train FDS status in FDS-HMI	X				