

STANDARD OPERATING
MANITENANCE SCHEDULE OF CGPISL ELECTRIC
PROPULSION EQUIPMENTS FOR
8W DIESEL ELECTRIC TOWER CAR WITH
UNDER SLUNG TRANSMISSION (DETC_US)



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CG Power and Industrial Solutions Ltd.

CG Power and Industrial Solutions Limited
Traction Machines & System Division

D5, Industrial Area MPAKVN, Mandideep 462 046, Madhya Pradesh, India
T: +91 7480 400 000 F: +91 7480 403 119

STANDARD OPERATING MAINTENANCE SCHEDULE OF TRACTION ALTERNATOR C1009A1

Sr. No	Name of Job	Weekly	Monthly	6 Month	Yearly
1	Physical inspection of Air outlet cover, Air inlet duct and Terminal box.	✓			
2	Physical inspection of Terminal connections.		✓		
3	To check the coupling bolts to engine adopter & alternator Stator.		✓		
4	Topping up of grease in bearing assembly.			✓	
5	To check the insulation resistance of exciter stator, rotor, main stator, exciter stator of traction alternator.			✓	
6	Pressure Cleaning.				✓
7	Dismantling.				Once in 2- year
8	To check the Fan, flex plate fixing bolts with engine flywheel.		✓		

STANDARD OPERATING MAINTENANCE SCHEDULE OF TRACTION MOTOR TM 2141C

Sr. No	Name of Job	Monthly	3 Month	6 Month	Yearly
1	Physical inspection of Terminal box and Terminal connections of traction motor.	✓			
2	Before removing the commutator covers, brush off loose dust or dirt.	✓			
3	Examine the commutator and clean the outer surface.	✓			
4	Examine the brush gear and clean the insulating rods.	✓			
5	Check carbon brushes for wear. Fit new brushes in place if necessary.	✓			
6	Check the brushes for mechanical damage, breakage of flexible, flexible are firmly secured etc.	✓			
7	Look carefully for any signs of flash over, overheating, loose connections or damaged insulation.	✓			
8	Top up Gear case to the level of gear oil filler unit.	✓			
9	Top up axle Suspension bearing Grease.	✓			
10	Blow out machines using clean dry compressed air.		✓		
11	Take particular care to direct air under the commutator in order to remove dirt lodged in the armature core ducts.		✓		
12	Check tightness of bolts securing Suspension Tube and gear case.		✓		



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13	Check for leakage from the Gear case and Axle caps. Top up the bearings with the recommended quantity of bearing grease. Top the roller suspension bearing with grease.		✓		
14	Top the armature bearing with grease.		✓		
15	Clean outlet provided on PE End Shield in bottoms.			✓	
16	When motors are removed from bogies for wheel turning etc. clean pinion and gearwheel and check for tooth wear.				✓
17	Before fitting the gear cases, clean out old lubricant to avoid the possibility of gears running subsequently in contaminated lubricant.				✓

STANDARD OPERATING MAINTENANCE SCHEDULE OF POWER RECTIFIER

Sr. No	Name of Job	Weekly	Monthly	6 Month	Yearly
1	Cleaning of outer surfaces	✓			
2	Removal of dust/ dirt collected on components/ inside surface using blower or dry cloth		✓		
3	Checking for any loose connection, fitting bolts etc.		✓		
4	Checking of Supervisory Trip Indicator Panel function		✓		
5	Checking Healthiness of Rectifier Diodes & Fuses			✓	
6	Checking of CT & PT			✓	
7	Checking Surface Temperature of Rectifier Diodes, Fuses & Busbars at normal load				✓
8	Value measurements of Snubber & Damping circuits Capacitors & Resistors and checking for physical damage/ cracks mainly for resistors				✓
9	Voltage Sharing across AC & DC damping capacitors				✓

STANDARD OPERATING MAINTENANCE SCHEDULE OF CONTROL PANELS

Sr. No	Name of Job	Monthly (Whenever required)	3 Month	2 Year
1	Check the loose connections and re tightening the loose connections.	✓		
2	Dust cleaning of Control panels (CC, MSGC, DD1, DD2 & RP)		✓	
3	Lubrication in the reverser of MSGC.			✓
4	Dust cleaning of Master Controller and DCS			✓
5	Lubrication in the Electro-pneumatic contactor (EP contactor of MSGC).			✓

STANDARD OPERATING MAINTENANCE SCHEDULE OF AUXILIARY ALTERNATOR & RECTIFIER REGULATING UNIT

Sr. No	Name of Job	Weekly	Monthly	6 Month	Yearly
1	Check the tightness of all terminal connections of both Alternator and RRU.	✓			
2	Check the engine and flange coupling.			✓	
3	Check the foundation alignment.			✓	
4	Ensure the water tightness of the rubber gaskets of both Alternator and RRU box.			✓	
5	Check the earth busbar tightness.			✓	
6	Ensure the tightness of all fasteners.			✓	
7	Check the tightness of fan cover.			✓	
8	Check the tightness of fuse holder.		✓		
9	Check the heat sink seating of diodes in rectifier assembly.		✓		
10	Check the tightness of Cable glands.			✓	
11	Check the crimping tightness.			✓	
12	Clean and tighten all the components and ensure that all joints and connections are properly tight.			✓	
13	Clean and regrease the bearing after removing the bearing from bearing housing.				✓
14	Cleanup the dust accumulated in the terminal box of both Alternator and RRU.	✓			