

PS & EMU DIRECTORATE**LIST OF SPECIAL MAINTENANCE INSTRUCTIONS****A.C. COACHES**

1.	AC/SMI/5	Adequate dehydration of refrigeration system to prevent ingress of moisture.	EL/7.1.83/D D Sep 81
2.	AC/SMI/6 WITH CORRECTION SLIP OF MAY,1982	Proper lubrication of compressor for AC coaches to prevent inadequate lubrication.	EL/7.1.75 Dt. 08.9.1981
3.	AC/SMI/7	Checking of refrigerant quantity and level in liquid receiver to ensure availability of correct amount of refrigerant in the system.	EL/7.2.1 dt. Sept.1981
4.	AC/SMI/8	Cleaning of evaporator unit during POH of AC coach to ensure proper cleaning of evaporator.	EL/7.1.83 Dt.. Oct,1981
5.	AC/SMI/10	To prevent refrigerant gas leakage from shaft seal of compressor used in AC coaches.	EL/7.1.83 Dt. 20.09.91
6.	AC/SMI/11	To prevent refrigerant gas leakage from Hand shut off valves of AC coaches.	EL/7.1.83/J9 Dt. 20.9.91
7.	ELPS/AC/SMI/14	Procedure for charging refrigerant in RMPUs.	EL/7.2.2 Dt. 17/18-11-1997
8.	RDSO/SMI/AC/16	Cleaning of copper tubes and fins of aircooled condenser unit used in underslung type AC coaches.	EL/7.1.83/J9 Dt. 29.5.98
9.	RDSO/SMI/AC/17	Proper adjustment of voltage during precooling of coaches through shore supply to avoid over voltage to SMF battery.	EL/7.1.83/J9 Dt. 29.5.1998
10.	RDSO/PE/SMI/AC/0001-99 (Rev. 1)	Guidelines for ensuring proper quality /type of copper tubes and brazing material to be used and procedure for brazing two refrigerant lines.	EL/7.1.83 dtd. 26.02.1999
11.	RDSO/PE/SMI/AC/0021 – 2002 (REV. 0’)	To ensure correct and fixed settings of time delay relays provided on AC control panels of RMPU type coaches for satisfactory operation of compressors.	June 2002
12.	RDSO/PE/SMI/AC/0022 – 2002 (REV. 0’)	Maintenance schedule for LHB type AC EOG coaches.	Aug. 2002
13.	RDSO/PE/SMI/AC/POH LHB/0034– 2006 (REV. 0’)	POH schedules of LHB design of EOG type air-conditioned coaches.	EL/7.1.108Ju ly' .2006

14.	RDSO/PE/SMI/AC/POH LHB/0035– 2006 (REV.'0')	IOH schedules of LHB design of EOG type air-conditioned coaches.	EL/7.1.108 July' .2006
15.	RDSO-TL-MI-1	Instruction for treatment of Diesel coolant water	EL/0.6.2/D7 24.11.77
16.	RDSO/PE/SMI/AC/0051-2003 (Rev. 0)	Operating instruction for LHB type power car	2003
17.	RDSO/PE/SMI/AC/0038 (Rev.'0')-2007	Procedure for replacement of refrigerant compressor in RMPU	EL/7.2.2 w.e.f. Oct. 2007
18.	RRDSO/PE/SMI/AC/0002-R99(Rev-01)	Maintenance schedule of RMPU and AC control panel	Sept-2009
19.	RDSO/PE/SMI/AC/0043(SMI_TL\0043.pdf Rev-0)-2010	Underslung AC coaches converted from R-12 to R-134a.	2010
20.	RDSO/PE/SMI/AC/0044-2011(Rev-0)	Maintenance Schedule of LHB RMPU	Nov-2011
21.	RDSO/PE/MI/AC/001 (Rev-0)	List of must change items	Sep-2006

ALTERNATOR

22.	AC/SMI/9	Instruction for re-assembly of NH type bearing of 18 kW KEL make brushless alternator at the time of POH to avoid failure of NH bearing in KEL alternator.	EL/7.1.21/K Dt. 03.7.1991
23.	RDSO/PE/SMI/AC/ALT/0002 – 98(Rev.0)	Fits and limits on bearings of alternators, DC/AC motors fitted on AC coaches.	EL/7.1.38/1 Dt. 20.01.99
24.	RDSO/PE/SMI/AC/ALT/0003 – 98(Rev.0)	Procedure for measuring bearing clearance of a free bearing.	EL/7.1.38/1 Dt. 20.01.99
25.	RDSO/PE/SMI/AC/ALT/0004 – 98(Rev.0)	On condition monitoring of bearings.	EL/7.1.38/1 Dt. 20.01.99
26.	RDSO/PE/SMI/AC/ALT/0005 – 98(Rev.0)	Fitment of outer race of bearings in the housing.	EL/7.1.38/1 Dt. 20.01.99
27.	RDSO/PE/SMI/AC/ALT/0006 – 98(Rev.0)	Testing and checking of new bearings for alternators, AC/DC motors of AC coaches.	EL/7.1.38/1 Dt. 20.01.99
28.	RDSO/PE/SMI/AC/ALT/0007– 98(Rev.0)	Guidelines to identify genuine and spurious/reconditioned bearings.	EL/7.1.38/1 Dt. 20.01.99
29.	RDSO/PE/SMI/TL/ /0003-99 (REV.'0')	Proper mounting maintenance and handling of power and field diode provided in rectifier cum regulator for brush less alternator of all makes and rating used on AC and TL SG	April 1999

		coaches.	
30.	RDSO/PE/SMI/AC/0018 - 99(Rev.0)	Proper load sharing in AC coaches.	EL/7.1.38/1 05.02.1999
31.	RDSO/PE/SMI/AC/0019 – 2002 (Rev. '0')	Testing procedure for proper working of over voltage protection provided in 25 kW/22.75kW alternator in AC coaches.	EL/7.1.38/1
32.	RDSO/PE/SMI/TL/0026 – 2003 (REV. '0')	SMI for checking shaft of train lighting alternator	Oct. 2003
33.	RDSO/PE/SMI/TL/0027 – 2004 (REV. '0')	SMI for “V” belts fitted on TL & AC coaches.	Feb. 2004
34.	RDSO/PE/SMI/TL/0030 – 2005 (REV. '0')	SMI for checking of pulleys in “V” belt drive.	Aug. 2005
35.	RDSO/PE/SMI/AC/0033-2006 (Rev. 0)	Protection of Lead wire of TL & AC Alternator	EL/1.6.9.15 dtd. 20.06.2006
36.	RDSO/PE/SMI/AC/042-2009	Checking of Belt tensioning device assembly	Oct-2009
37.	RDSO/PE/SMI/TL/0045-12(Rev-0)	Special maintenance instruction for 4.5KW/25KW RRU/ERRU voltage setting on TL and AC Coaches	June-2012
38.	EL/7.1.38/1 dated 20.01.2011	Revised guidelines for tightening of V-belts	Jan-2011
39.	RDSO/PE/SPEC/TL/0175-2012(Rev-0)	Guideline to use standby circuit in electronic rectifier cum regulator unit	Aug-2012
40.	RDSO/PE/SMI/TL/0047-2013(Rev-0) SMI_TL\SMI_0047.pdf	SMI for 4.5kW/25kW RRU IN SITU testing of over voltage protection (OVP) unit on TL and AC Coaches	May-2013

BATTERIES

41.	RDSO/PE/SMI/TL/0024 – 2012 (REV. '2')	SMI for VRLA batteries fitted on TL & AC coaches	Aug 2012
42.	RDSO/PE/SMI/TL/0025 – 2003 (REV. '0')	SMI for water topping in TL/AC batteries.	Oct. 2003
43.	RDSO/PE/SMI/TL/0028 – 2004 (REV. '0')	Procedure for revival of defective cells (TL&AC)	June 2004
44.	RDSO/PE/SMI/AC/0032-2006 (Rev. 0)	SMI for monitoring and maintenance of 2V,1100Ah cells.	May 2006
45.	RDSO/PE/SMI/TL/0029-2004 (Rev.0)	Procedure for Revival of Lead Acid Batteries (Loco)	Dec. 2004

Disclaimer: In case of any error/confusion, may please contact to PS & EMU directorate for further query.
