INSTRUCTION
(Service)

Dometic THE SIGN OF COMFORT

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Model	RM 8xxx
Subject	Testplan MES / AES

Version 1 created by JP/ MBA



Before testing make sure, that all cables are connected to the PCB ! Provide a possibility, that the 12 VDC supply , the AC supply , the +12 V heater supply and the D+/S+ connection (only on AES) can be interrupted easily ! The supply voltage must be between 11 VDC and 14 VDC.

1. Test plan MES

No.	Action	Indication	Result
1.	230 VAC Function test		
1.1	Turn rotation knob to AC with AC supply not connected	AC LED and red LED must flash	
1.2	Provide AC supply (230 V)	AC LED lights green after a few seconds	AC relay switches
2.	12 VDC Function test		
2.1	Turn rotation knob to DC with +12 V heater supply not connected	DC LED and red LED must flash	
2.2	Provide +12 V heater supply	DC LED lights green after a view seconds	DC relay switches
3.	Gas Function test		
3.1	Turn to Gas, wait ca. 5,5 minutes (3 ignition trials)	Gas LED and red LED flash (gas lockout)	(3 ignition trials: 30 seconds ignition, 2 minutes ventila- tion pause, 30 seconds igni- tion, 2 minutes ventilation pause, 30 seconds ignition.
3.2	Switch off and on again; go to gas mode, provide gas to gas input tube	Gas LED lights green	Ignition starts until flame is on
4.	Interior light test		
4.1	Turn to any mode, open door		Interior light switches on
4.2	Close door		Interior light switches off
4.3	Turn to - OFF mode and open door		Interior light keeps off



2. Test plan AES

No.	Action	Indication	Result
1.	230 VAC Function test		
1.1	Turn to AC mode with AC supply not connected	Display shows "230" flashing with red LED	
1.2	Provide AC supply (230 V)	Display shows "230"	AC relay switches
2.	12 VDC Function test		
2.1	Turn rotation knob to DC with +12 V heater supply not connected	Display shows "12" flashing with red LED	
2.2	Provide +12 V heater supply	Display shows "12"	DC relay switches
3.	Gas Function test		
3.1	Turn to Gas, wait ca. 5,5 minutes (3 ignition trials)	Display shows "GAS" flashing with red LED (gas lockout)	3 ignition trials: 30 seconds ignition, 2 minutes ventila- tion pause, 30 seconds igni- tion, 2 minutes ventilation pause, 30 seconds ignition.
3.2	Switch off and on again; go to gas mode, provide gas to gas input tube.	Display shows "GAS"	Ignition starts until flame is on
4.	Interior light test		
4.1	Turn to any mode, open door		Interior light switches on
4.2	Close door		Interior light switches off
4.3	Turn to - OFF mode and open door		Interior light keeps off
5.	AES Mode		
5.1	Turn to AES mode; +12 VDC heater and AC supply not connected	Display shows "AES" changing with "GAS"; after ca. 5,5 min the display shows "AES" flashing with red LED (gas lockout).	3 ignition trials: 30 seconds ignition, 2 minutes ventila- tion pause, 30 seconds igni- tion, 2 minutes ventilation pause, 30 seconds ignition.
5.2	Provide AC supply	Display shows "AES" changing with "230"	AC relay switches
5.3	Remove AC and provide DC heater supply and D+ (alternator input)	Display shows "AES" changing with "12"	DC relay switches
5.4	Remove DC and wait approx. 15 Minutes	Display shows "AES" ; after 15 minu- tes the display shows "AES" chan- ging with "GAS"	DC mode switches off; after 15 minutes (tankstop delay) ignition starts (3 attemps)