MB3 Diagnostics Fault Codes

LED Code.	Condition	Brief Diagnosis
Normal Operation Mode.		
Slow Single	**Idle state waiting for a call for heat.**	functioning normally, and is in an idle state
Slow Double	**Normal Operation in thermo closed state**	functioning normally, with the thermostat closed.
Fault Mode.		
1	**Overheat condition**	Overheat in progress Overheat switch is disconnected or O/C
2	**Pressure switch inactive**	Fan Running but Pressure switch is still open. Fan stopped but pressure switch is still closed.
3	**Purge/ Inter-wait Timer Operating.**	Thermostat off during Flame Establishment time. Flame establishment time elapsed without flame.
4	**Pressure switch lockout. (Pressure switch not functional)**	Fail to close timeout / Fail to open timeout.
5	**Ignition lockout (Failure to ignite flame.)**	Maximum number of re-ignition / spark restoration attempts have been reached.
6	**Gas Valve fault lockout. (Valve Detection failure).**	Valve is disconnected Gas valve drive relay contacts fail to close Gas valve drive triac fault: short, open or half-wave.
7	**Over temp lockout (High limit)**	Too many Hi-Limit activation's in latest heat cycles Hi Limit activation continues longer than Hi Limit Fan +Cool Down times.
8	**Frequency Lockout. (Timing Fault)**	Supply frequency outside operating limits. Microprocessor clock outside operating limits
9	**Flame lockout. (Invalid flame A/D Value)**	Flame sense hardware fault
10	**Safe Start lockout (False flame)**	Invalid Flame sensed during Safe start check or IDLE -hardware fault.
11	**Safe Start lockout (Secondary safeguard timing fault)**	Main valve Safeguard too slow or failed to activate – hardware fault.
12	**Safe Start lockout (Secondary safeguard timing fault)**	Safe Start checks did not complete in time, no hardware fault recorded.