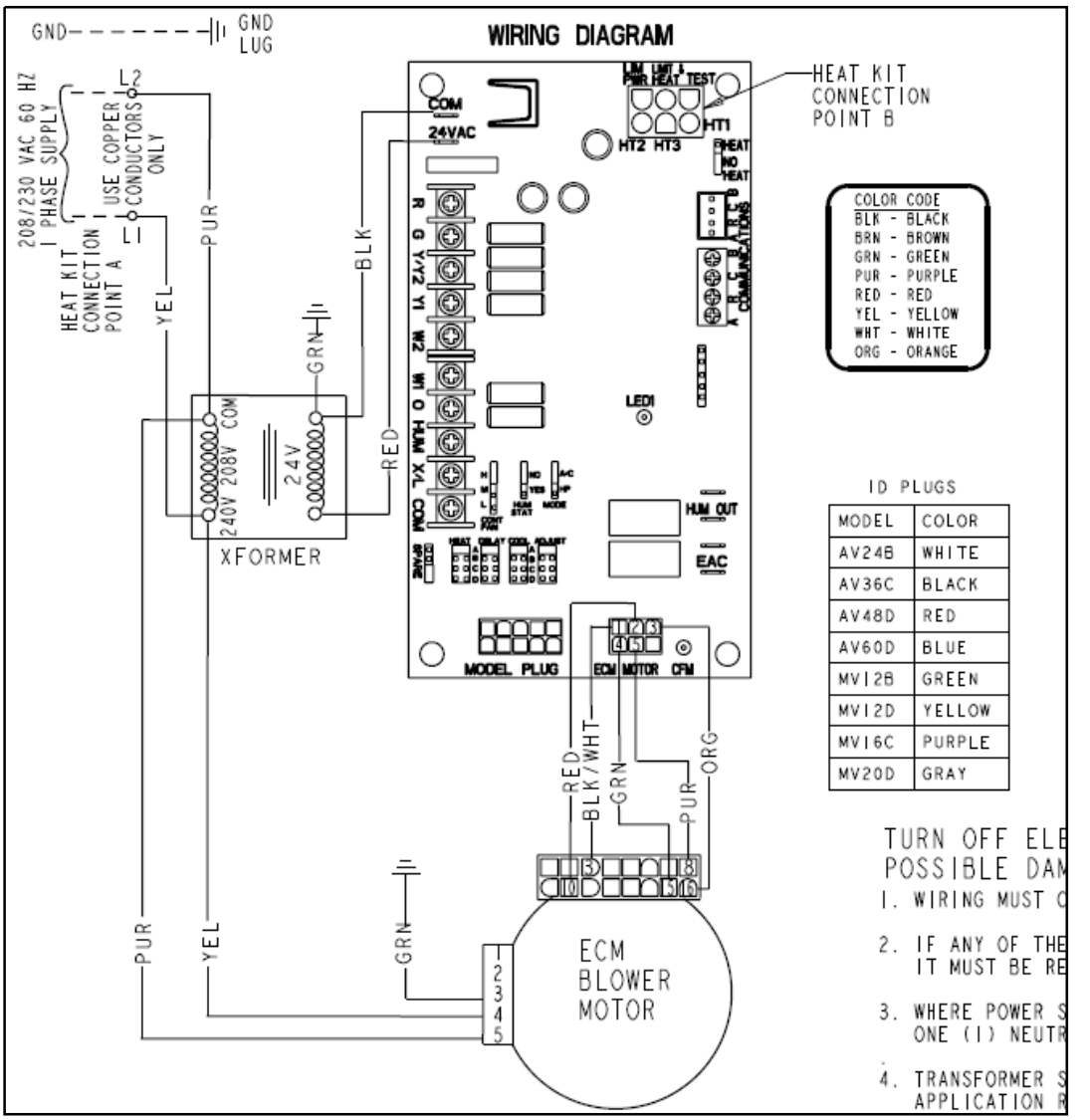
GE ECM VS AO Smith ECM

GE motor Low voltage plug

Control Board		GE Motor
Pin # 1 Blk/Wht	= PWM Ground =	Pin # 3
Pin # 2 Red	= PWM Output =	Pin # 2
Pin # 3 Orange	= PWM Input =	Pin # 16
Pin # 4 Green	= 24VAC Ground =	Pin # 15
Pin # 5 Purple	= 24VAC Hot =	Pin # 8

The voltage between pin # 1 to Pin #2, #3 will vary from 0 to 24 VDC depending on the call to properly check this they will need a meter to read PWM. If they are getting a 1to 24 VDC to the motor with a call for fan, heating or cooling the motor should be running if not replace the motor.
Pin # 4 and pin # 5 on the control is a constant 24 VAC to the motor



AO Smith Low voltage plug

Control Board		AO Smith Motor	
Pin # 1 Blk/Wht	= PWM Ground	=	Pin # 4
Pin # 2 Red	= PWM Output	=	Pin # 3
Pin # 3 Orange	= PWM input	=	Pin # 1

The voltage between pin # 1 to Pin #2, #3 will vary from 0 to 24 VDC depending on the call to properly check this they will need a meter to read PWM. If they are getting a 1to 24 VDC to the motor with a call for fan, heating or cooling the motor should be running if not replace the motor.