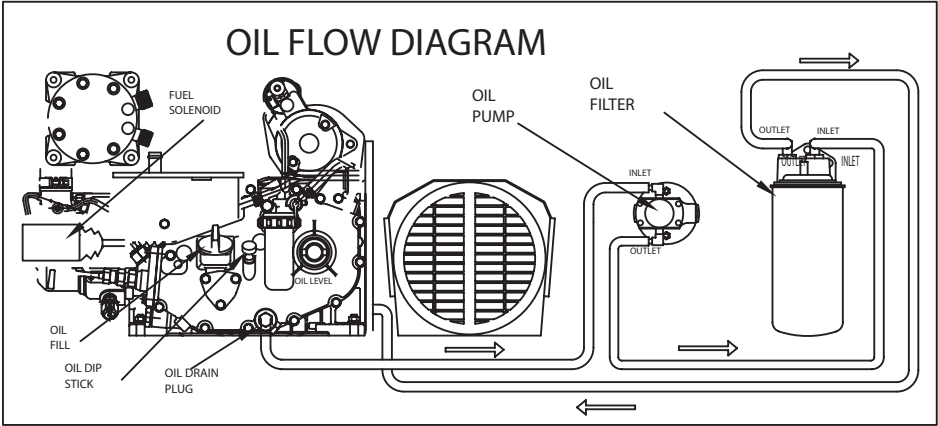


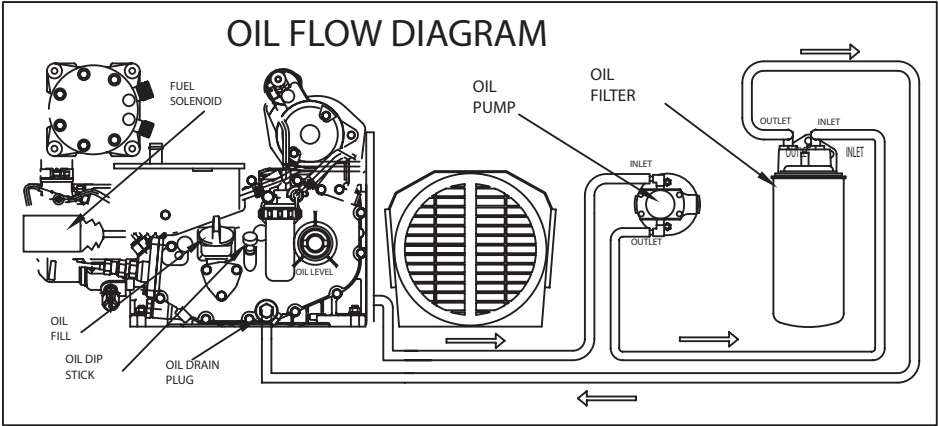
OIL REVERSAL BEGAN WITH JUNE 2006 PRODUCTION

ALL POWER SECTIONS WITH AN ELECTRIC OIL PUMP
SHOULD HAVE THE OIL LINES ROUTED LIKE THE
DIAGRAM AFTER JUNE 2006

OIL LINE ROUTING AFTER JUNE 2006

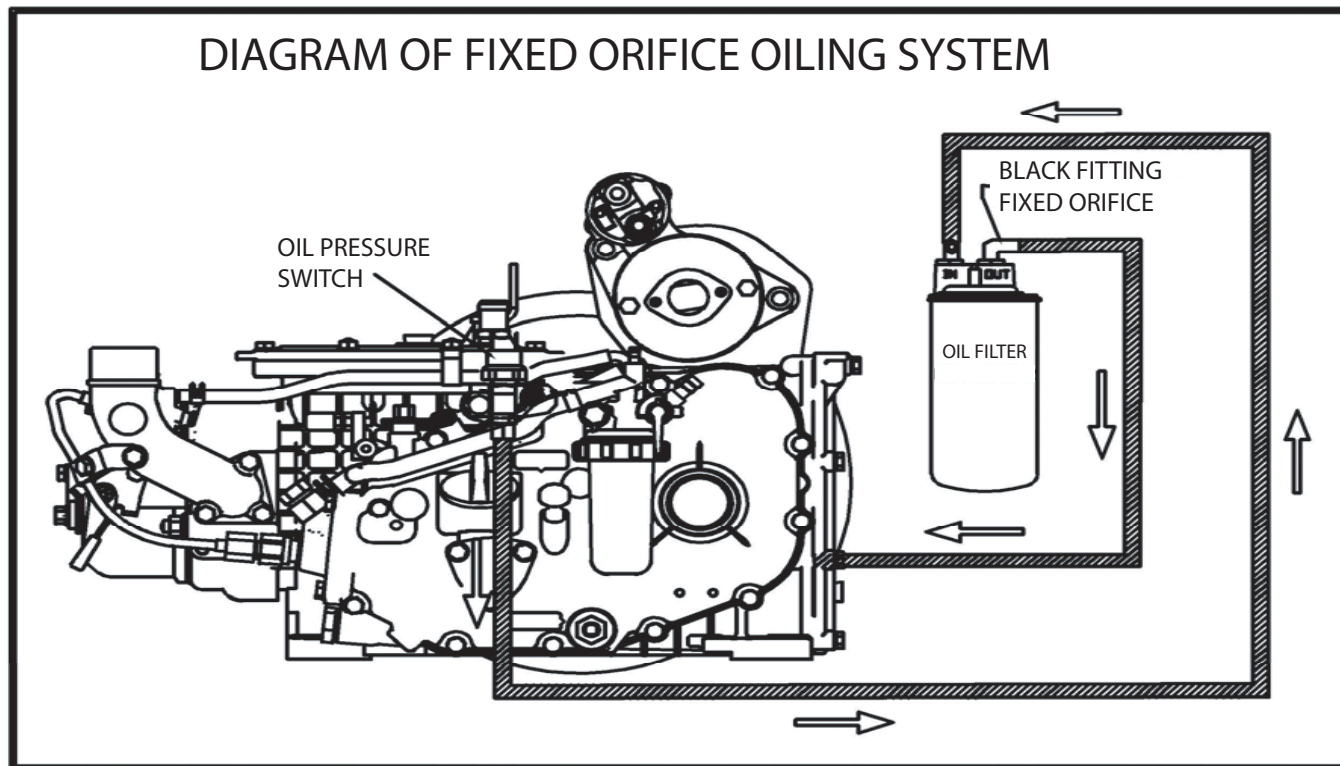


OIL LINE ROUTING BEFORE JUNE 2006



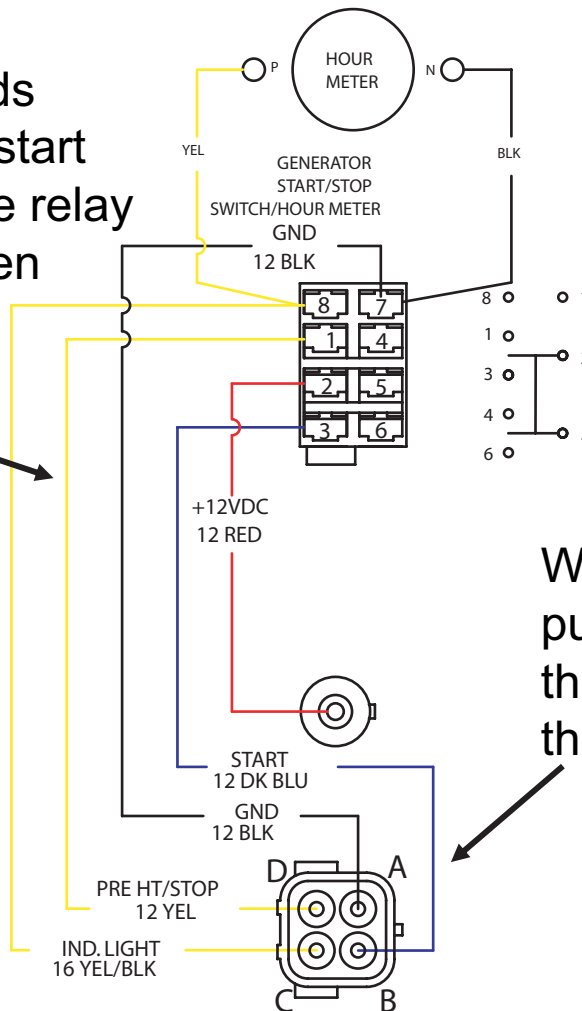
2007 & LATER OIL DIAGRAM

NOTE: THE FITTING IN THE OUTLET SIDE OF THE OIL FILTER HOUSING SHOULD BE BLACK IN COLOR AND HAS A 30 THOUSANDS ORIFICE INSIDE TO SLOW THE OIL FLOW DOWN.



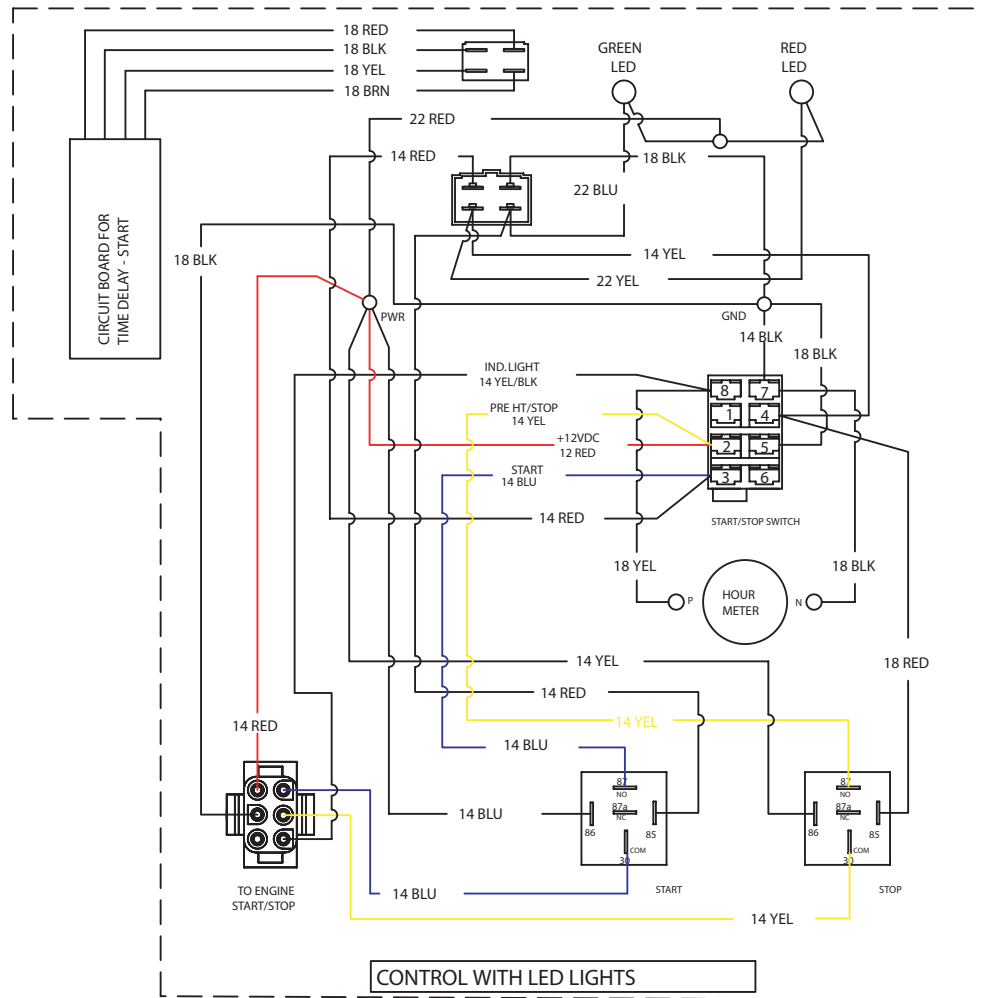
START/STOP CONTROL PANEL CIRCUIT

When the start/stop switch is pushed down in the stop position the yellow wire sends 12volts out and triggers the start stop relay. This switches the relay and to stop the engine. When the engine is not running you can press the switch to manually heat the glow plug.



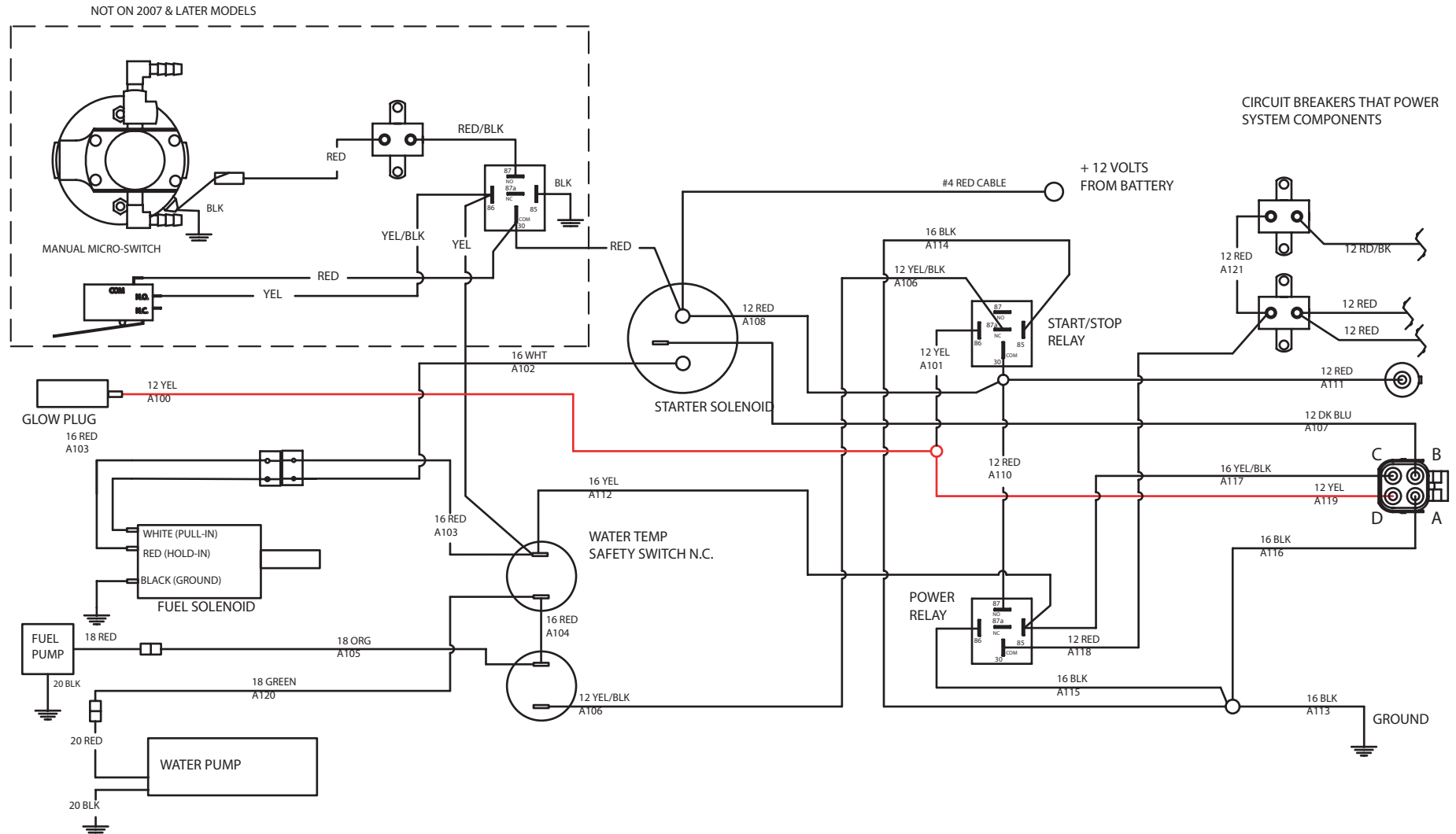
When the start/stop switch is pushed down in the start position the blue wire sends 12 volts to the starter to engage it.

START STOP CONTROL PANEL LED



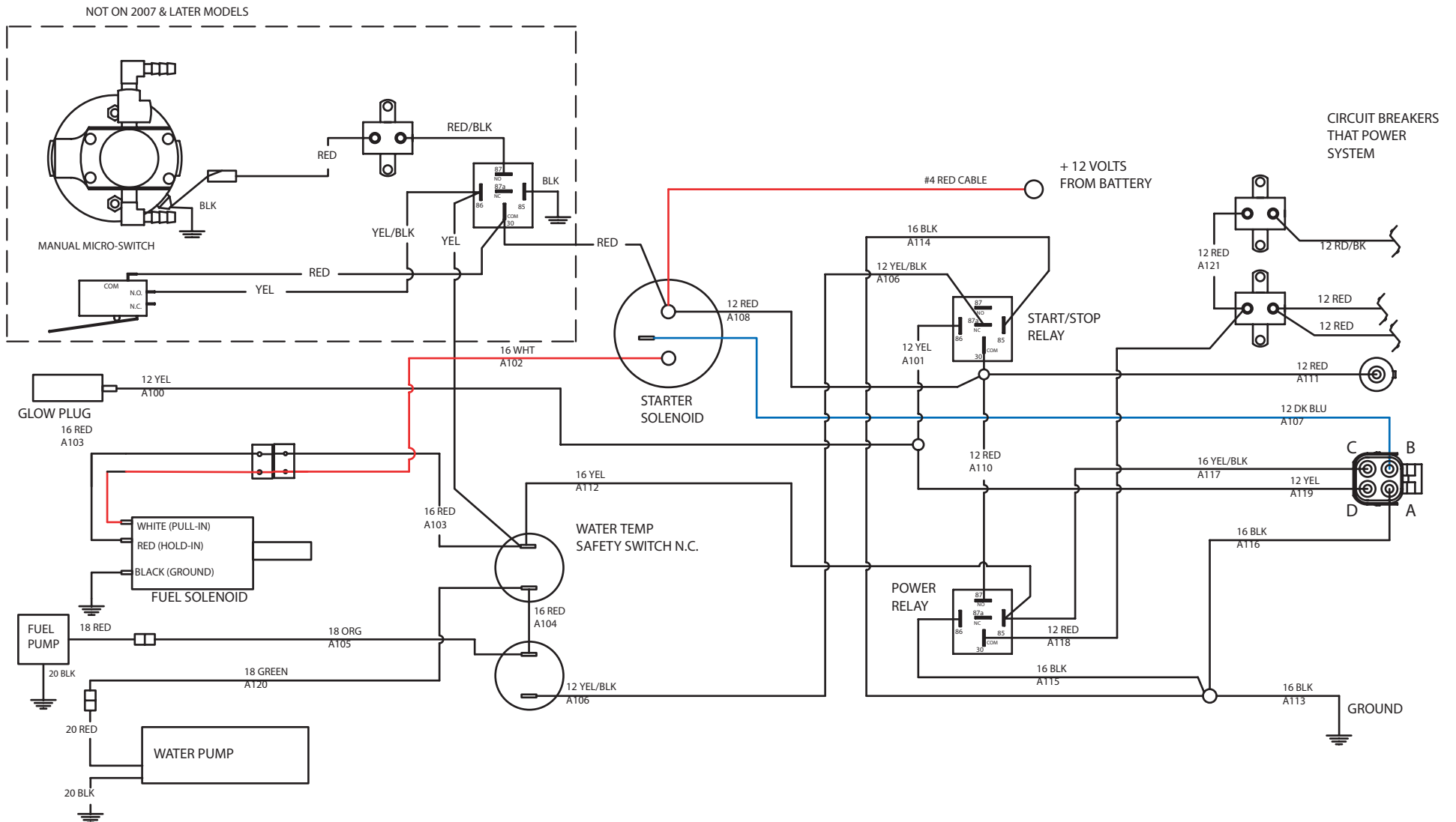
GLO PLUG CIRCUIT

When the start/stop switch is pushed down in the stop/preheat position the **yellow** wire gets 12 volts to heat the glow plug

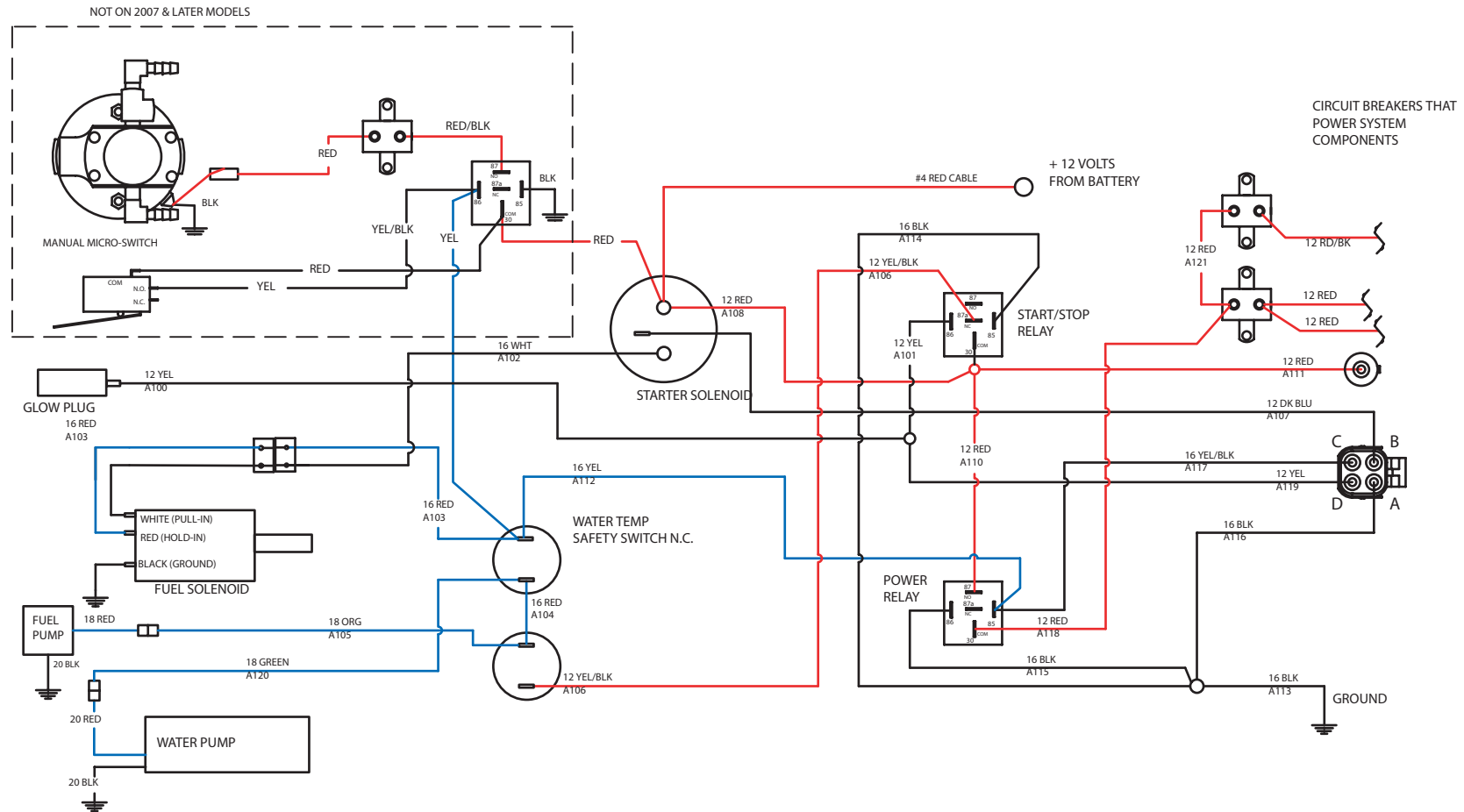


START CIRCUIT

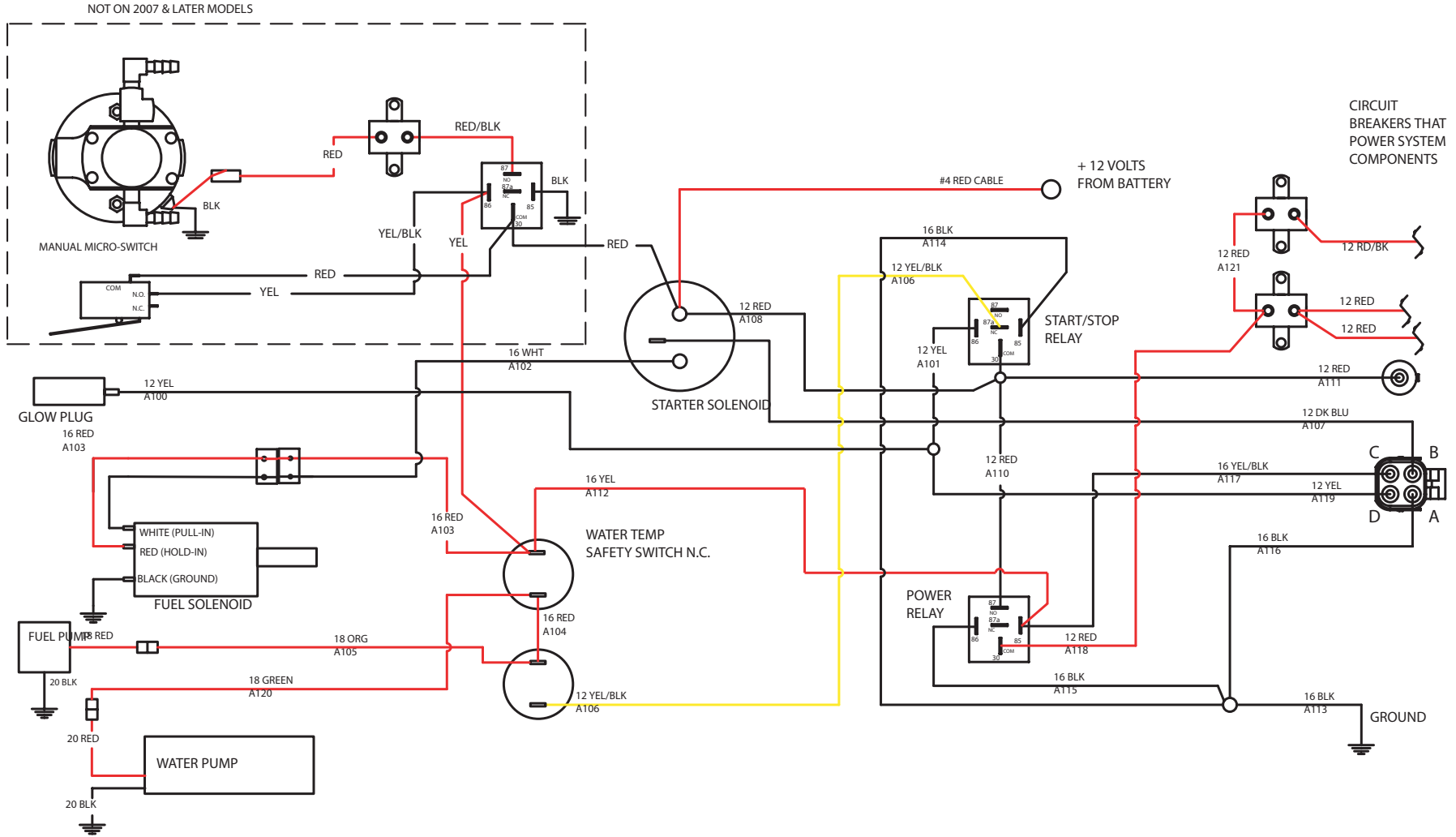
THE **BLUE** WIRE ENGAGES THE STARTER.
THE **WHITE** WIRE PULLS IN THE FUEL SOLENOID.



OIL PRESSURE SWITCH CIRCUIT

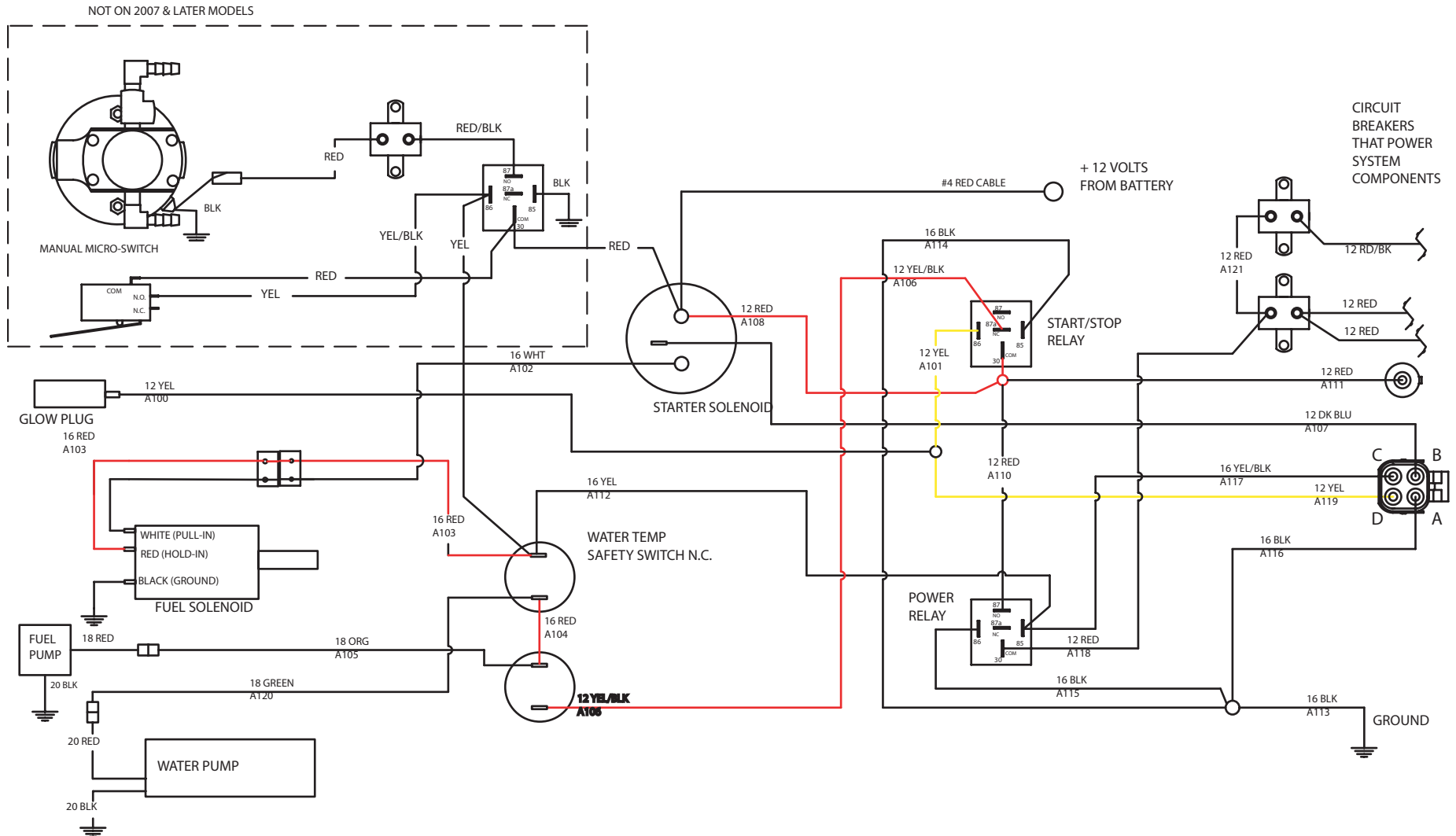


RUN CIRCUIT



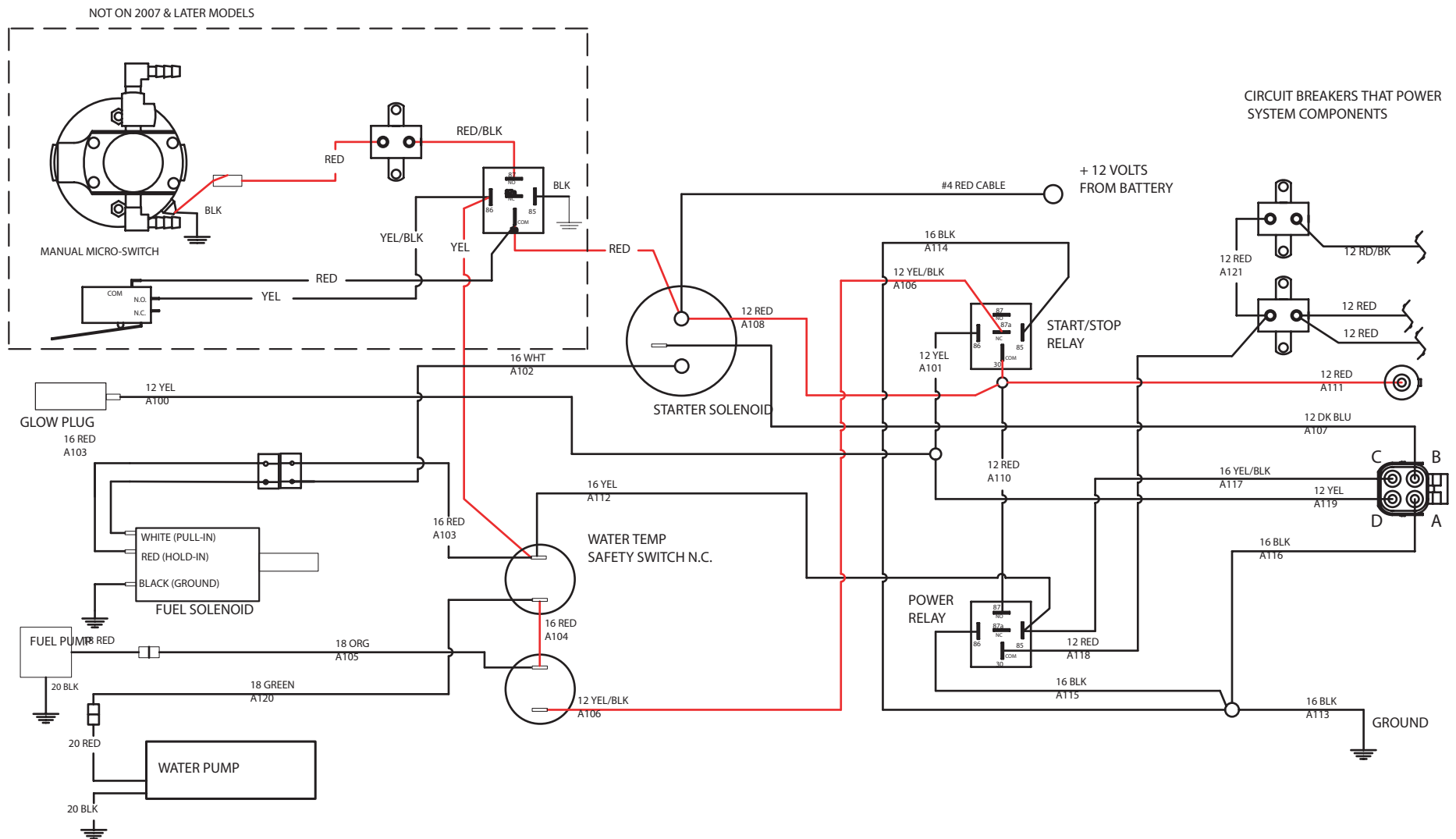
STOP CIRCUIT

When the stop switch is pressed down in the stop position the yellow wire triggers the start/stop relay and interrupts the 12volts to the oil pressure switch and drops the fuel solenoid out to shut the fuel off and stop the engine.



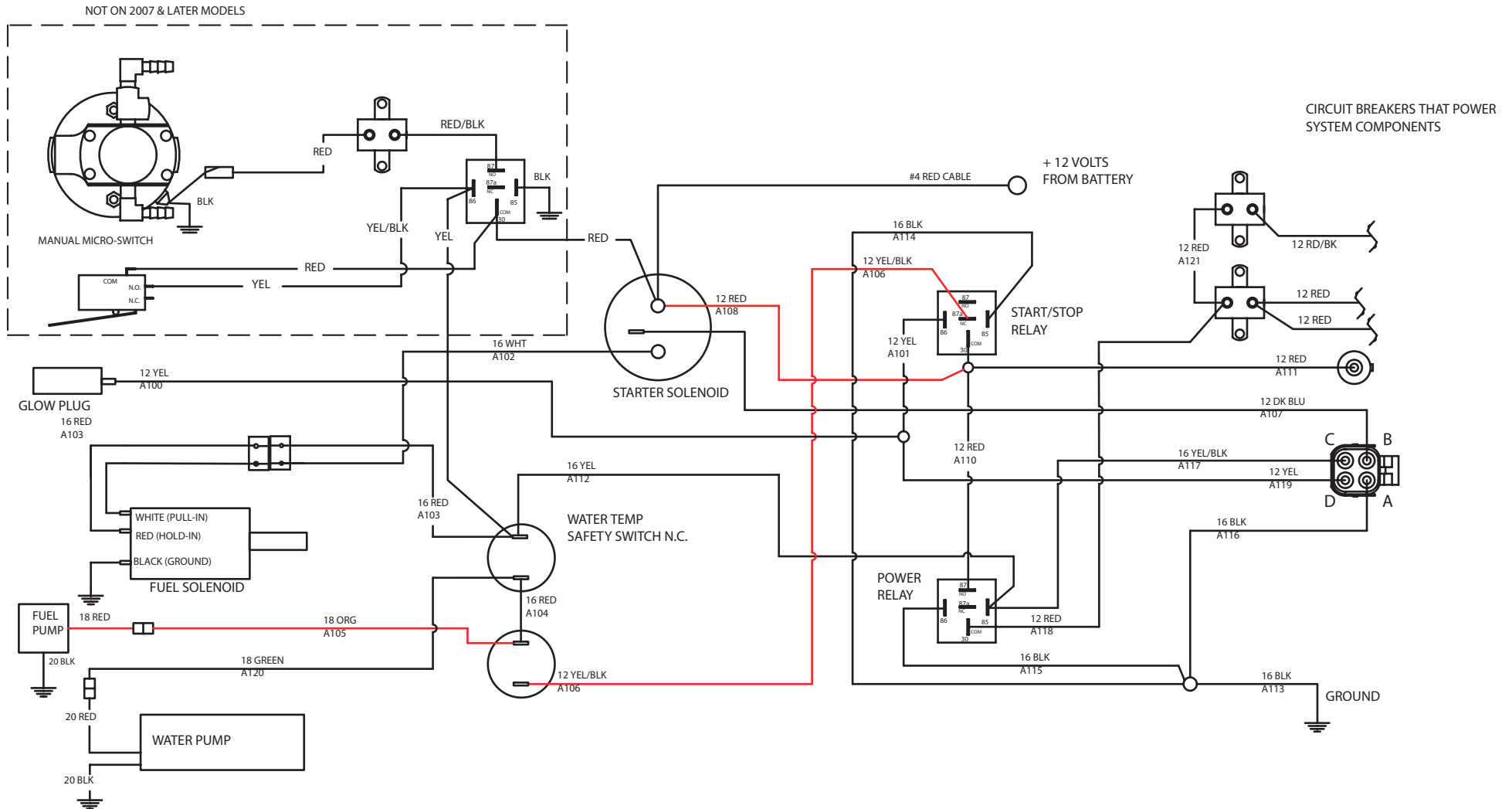
ELECTRIC OIL PUMP CIRCUIT

When the oil pressure switch closes it sends 12 volts to the oil pump relay
To trigger it and send 12 volts to the external oil pump.



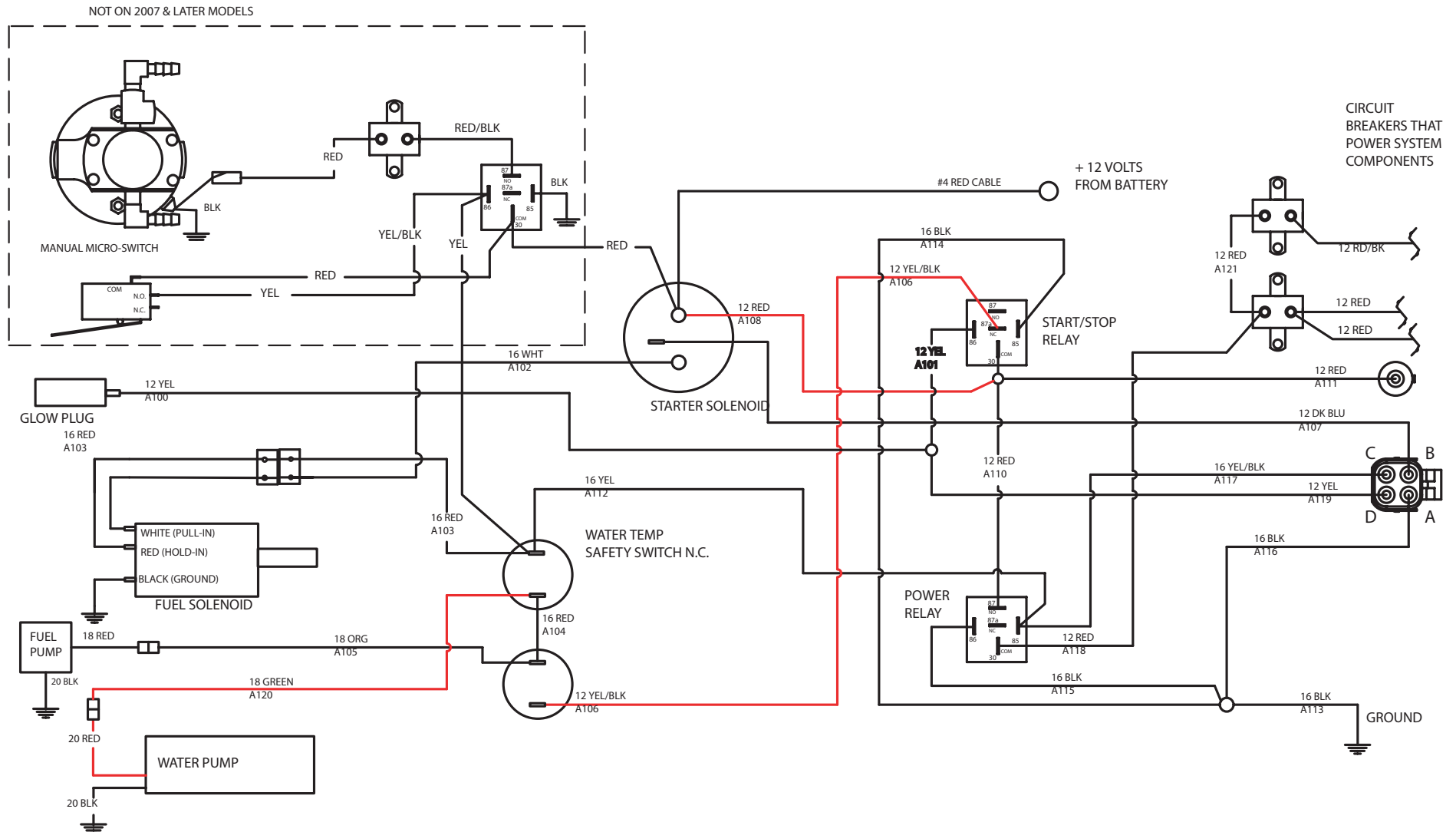
FUEL PUMP CIRCUIT

When the oil pressure switch closes it sends 12 volts to the electric fuel pump



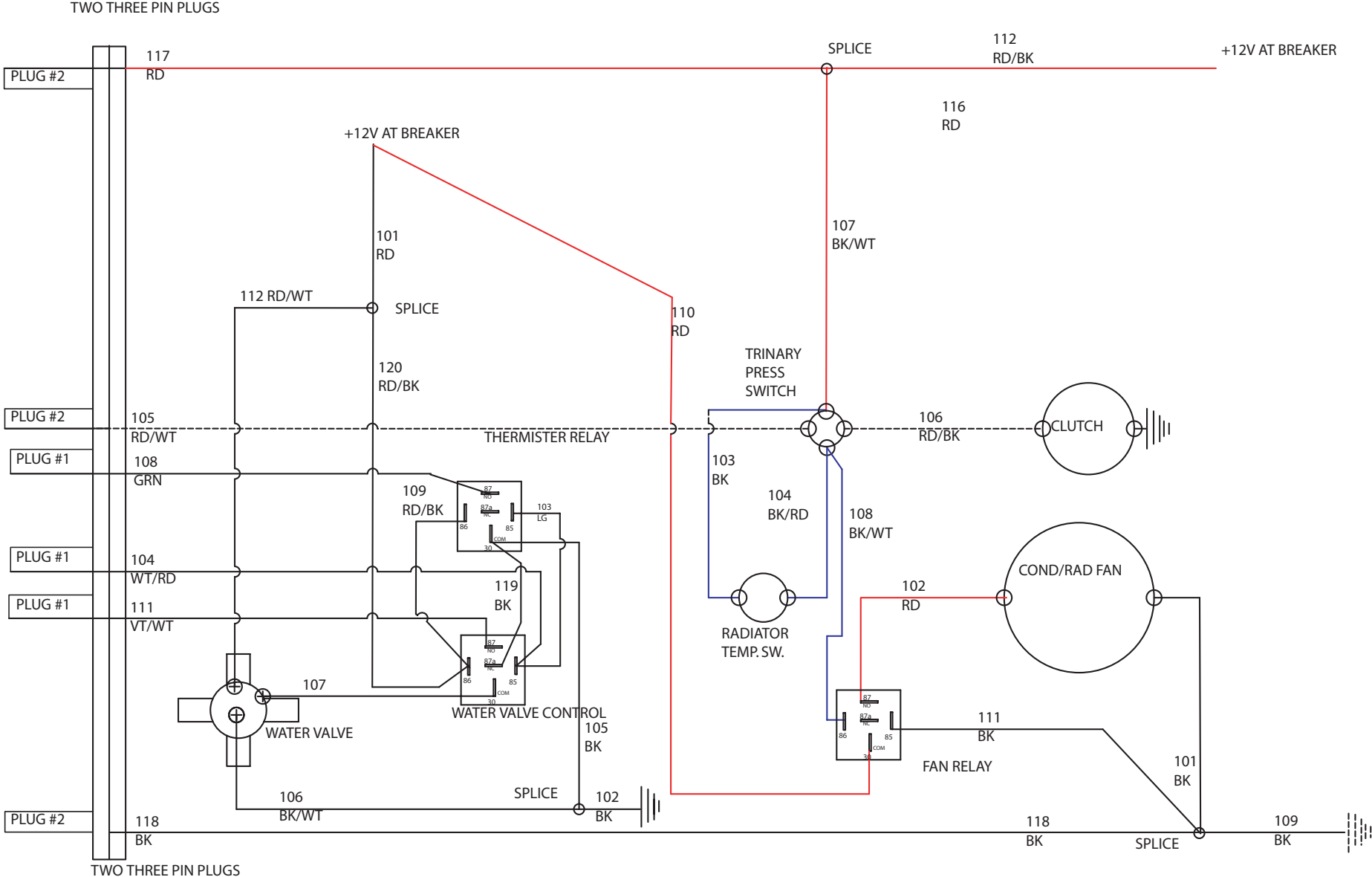
WATER PUMP CIRCUIT

When the oil pressure switch closes it sends 12 volts to the electric water pump



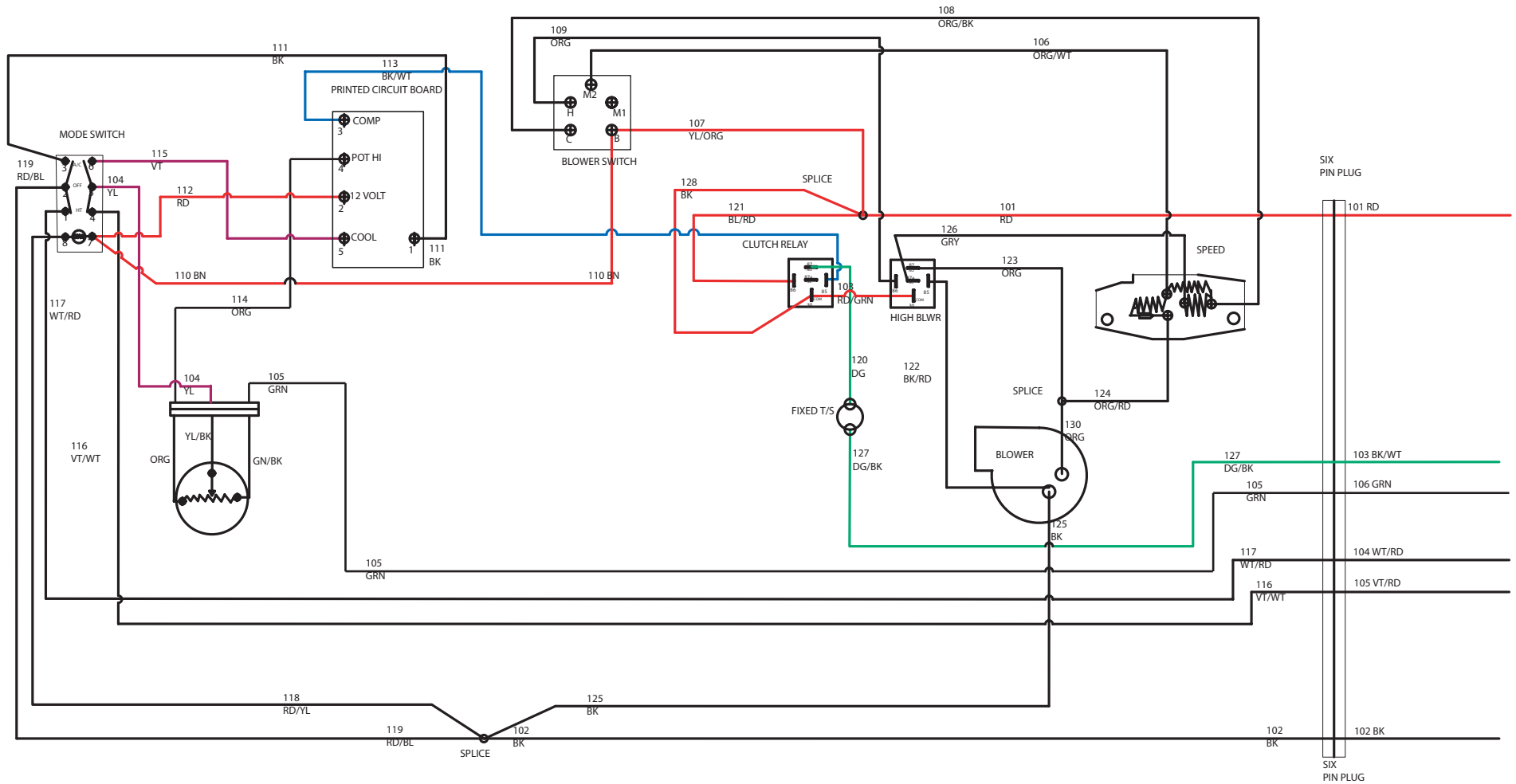
RADIATOR FAN CIRCUIT

The radiator fan is controlled by either the radiator fan switch in the bottom of the radiator or the trinary switch when the AC is on.



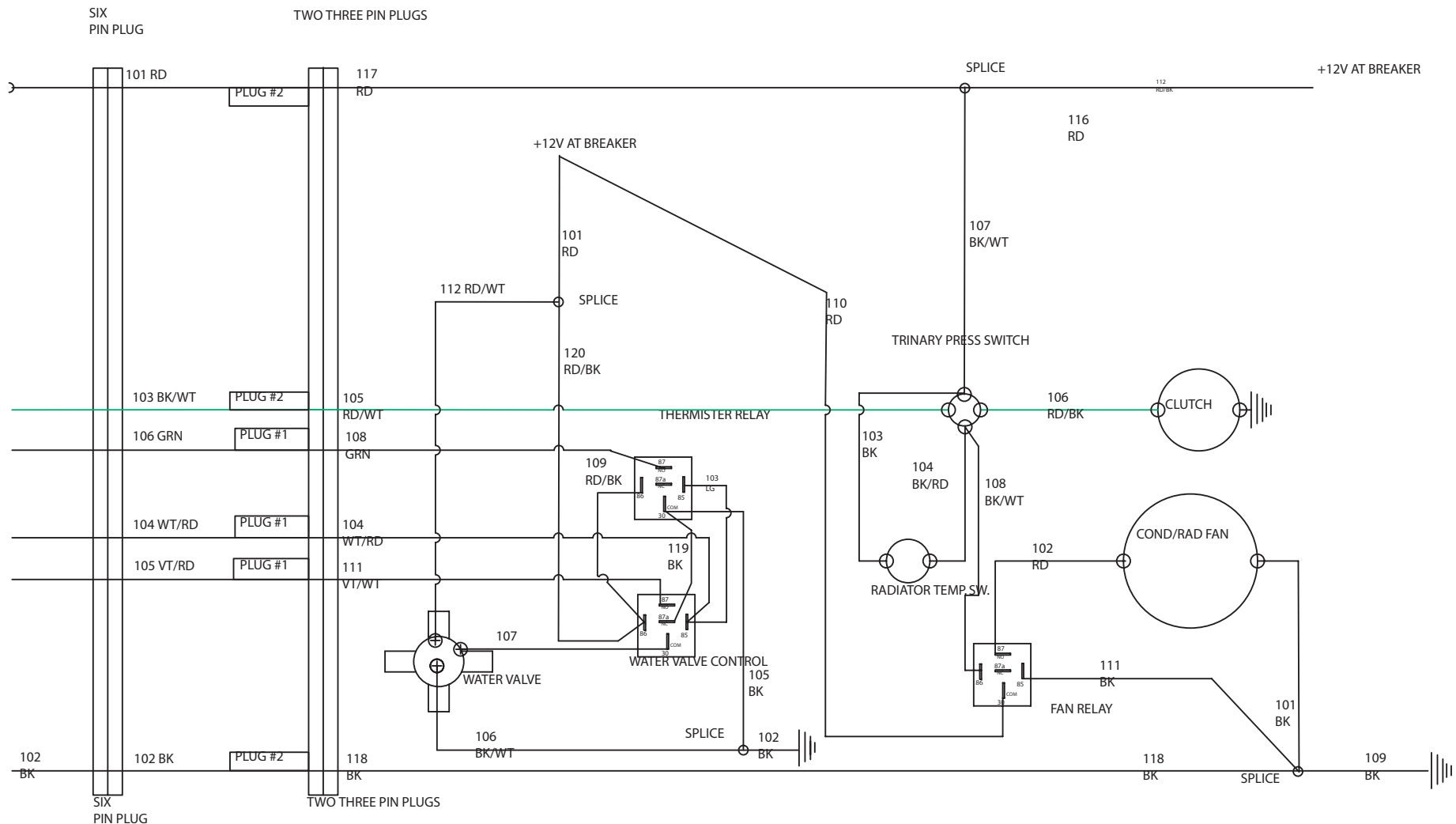
AC INTERIOR CIRCUIT

The mode switch sends a variable voltage signal to the circuit board from the temperature switch on the **violet** wire, the circuit board sends a ground signal to the clutch relay on the **black/white** wire, which triggers the relay and sends 12 volts to the fixed thermostat on the **green** wire and out to the exterior harness to the trinary switch.



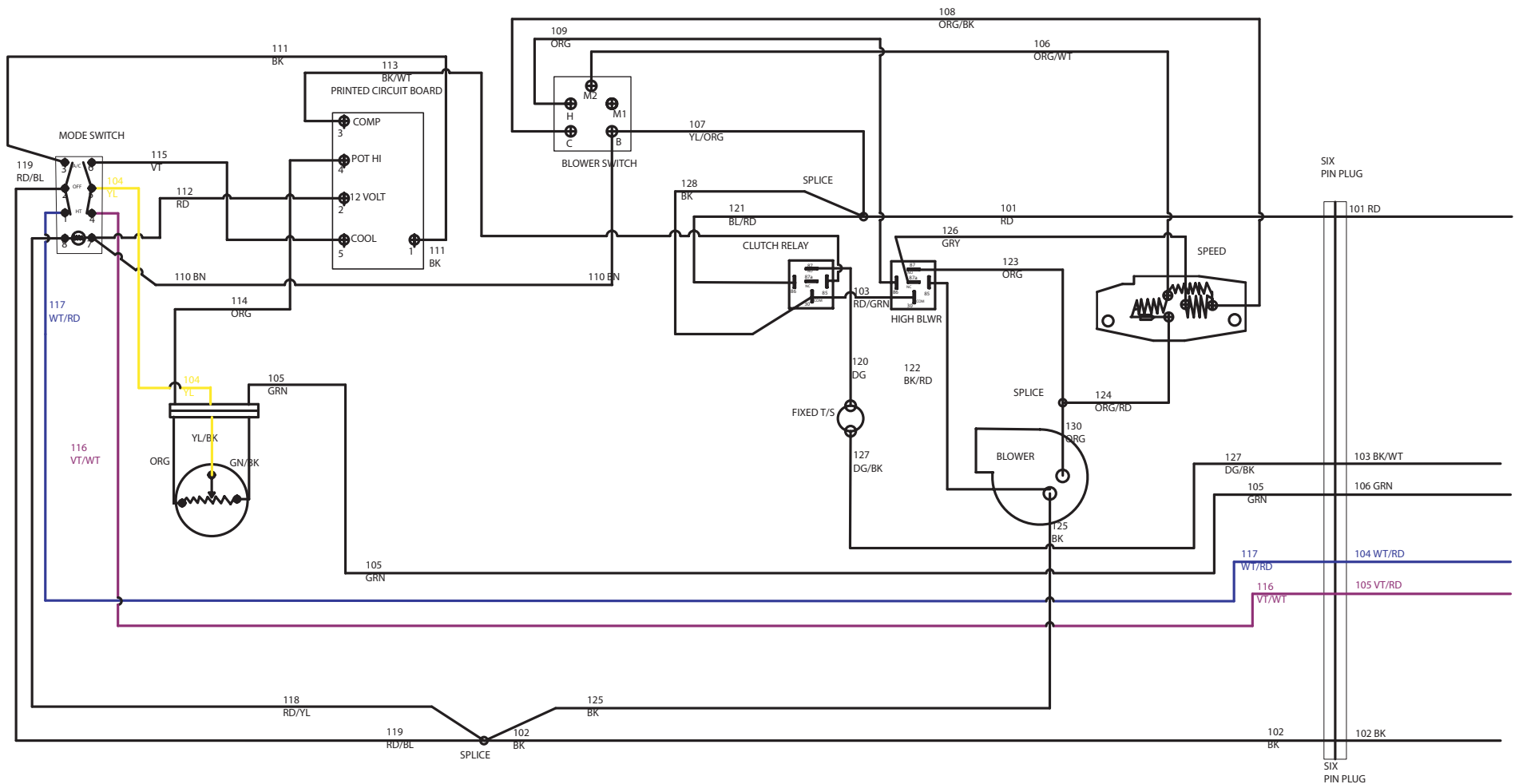
AC EXTERIOR CIRCUIT

The **green** wire from the fixed thermostat on the interior harness changes to a **black/white** wire on the extension and then to a **red/white** wire on the engine harness at the 3 pin connector. From there it goes to the trinary switch and to the compressor clutch as a **red/black** wire.



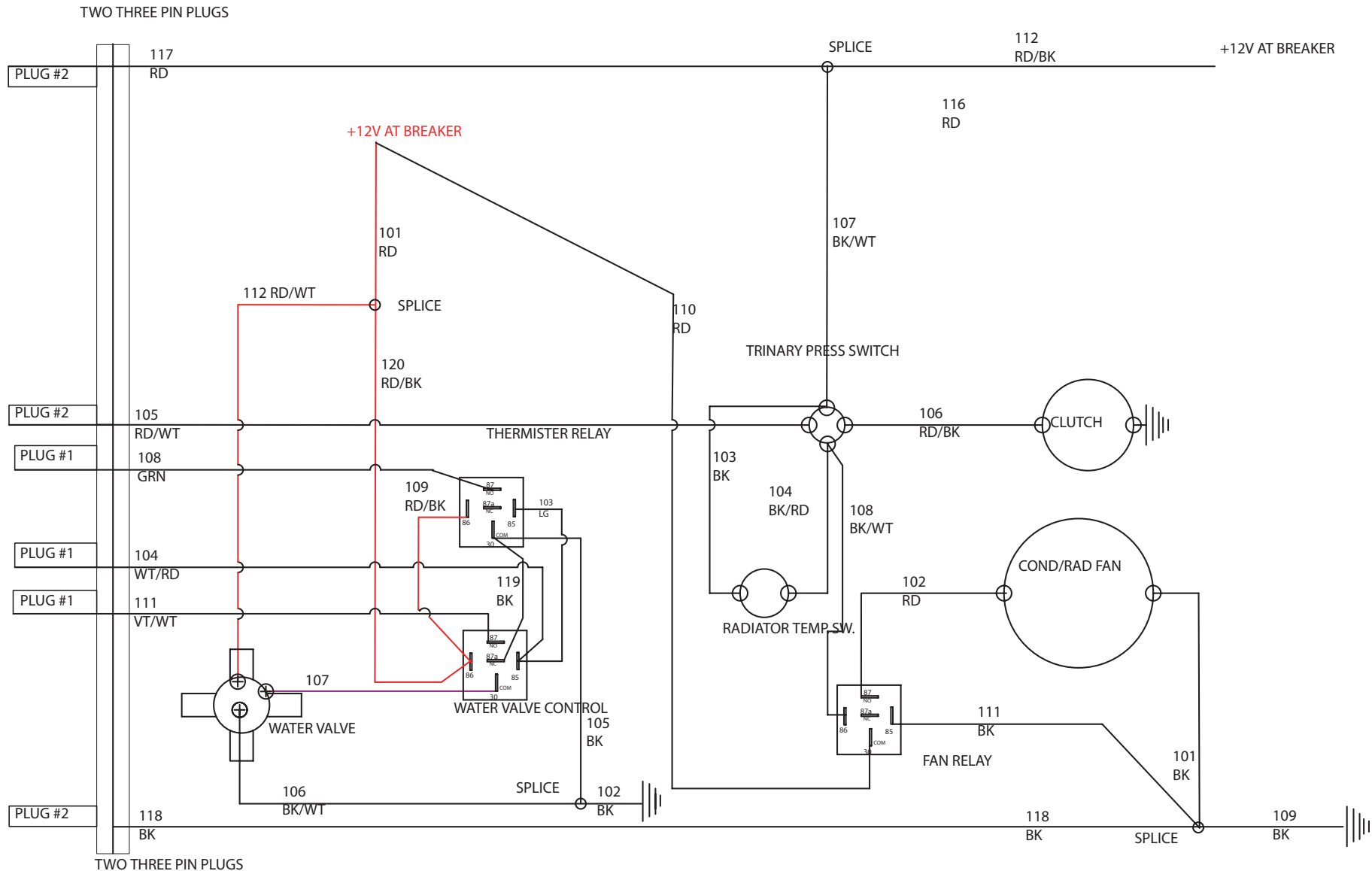
HEAT INTERIOR CIRCUIT

When the mode switch is in heat position the **white/red** wire sends a ground to the water valve control relay and the **violet/white** wire sends a variable voltage to the water valve when the temperature switch moved. This controls the amount of hot water that goes to the heater coil.



WATER VALVE HEAT CIRCUIT

The **white/red** wire grounds the water valve control relay when the mode switch is in heat mode. The **red/white** wire is 12 volts from the circuit breaker and the **violet** wire is a variable voltage from the temperature control switch.



BLOWER CIRCUIT

The grey wire is low blower speed, the **orange/black** is medium speed, the **orange/white** wire is medium 2 speed, and the **orange** wire is high speed blower.

