



Model 277 ENGINE IDLE LIMITER

Manufactured by



FLIGHT SYSTEMS

www.flightsystems.com

INSTALLATION INSTRUCTIONS

MOUNTING: The unit should be securely mounted in the cab, driver's compartment or other protected location. The unit can be mounted in any position. Wiring should be protected from heat and abrasion and be properly tied. The optional temperature sensor must be mounted on the outside of the cab.

MINIMUM 4-WIRE INSTALLATION: (No temperature sensing, no accessory control)

1. Disconnect the circuit (or circuits) required to run the engine (Ignition coil, fuel pump, fuel solenoid, ECM "IGN" circuit, etc. 10 amps max.) from the ignition switch "run" position and connect to the BROWN wire (RUN). The RUN wire will be "hot" (12/24V) until the idle limiter times out. If the ECM requires a "stop" signal instead, see ECM STOP SIGNAL below.
2. Connect the BLACK fused wire (IGN) to the ignition switch or a terminal on the fuse block that is "hot" when the ignition or master switch is in the normal running position. The BLACK wire supplies operating power to the idle limiter.
3. Connect the WHITE wire (GND) to a good frame ground. NOTE: Many vehicles provide extra ground terminals on or near the fuse block.
4. Connect the YELLOW wire (SW) to the parking brake switch or other circuit that goes to ground when the idle limit time should begin. For a park brake that is held off with air pressure, this should be a normally closed pressure switch. Alternatively, if the idle limit time should begin with a voltage (5-28V) instead of a switch closure to ground, connect the VIOLET wire (VOLT SIG.) to this source of voltage. NOTE: Both methods may be used in the same installation if this suits your application.

ACCESSORY CONTROL: If it is desired to shut off an accessory at the same time that the engine is shut down in order to reduce battery drain, do the following *in addition* to the above steps:

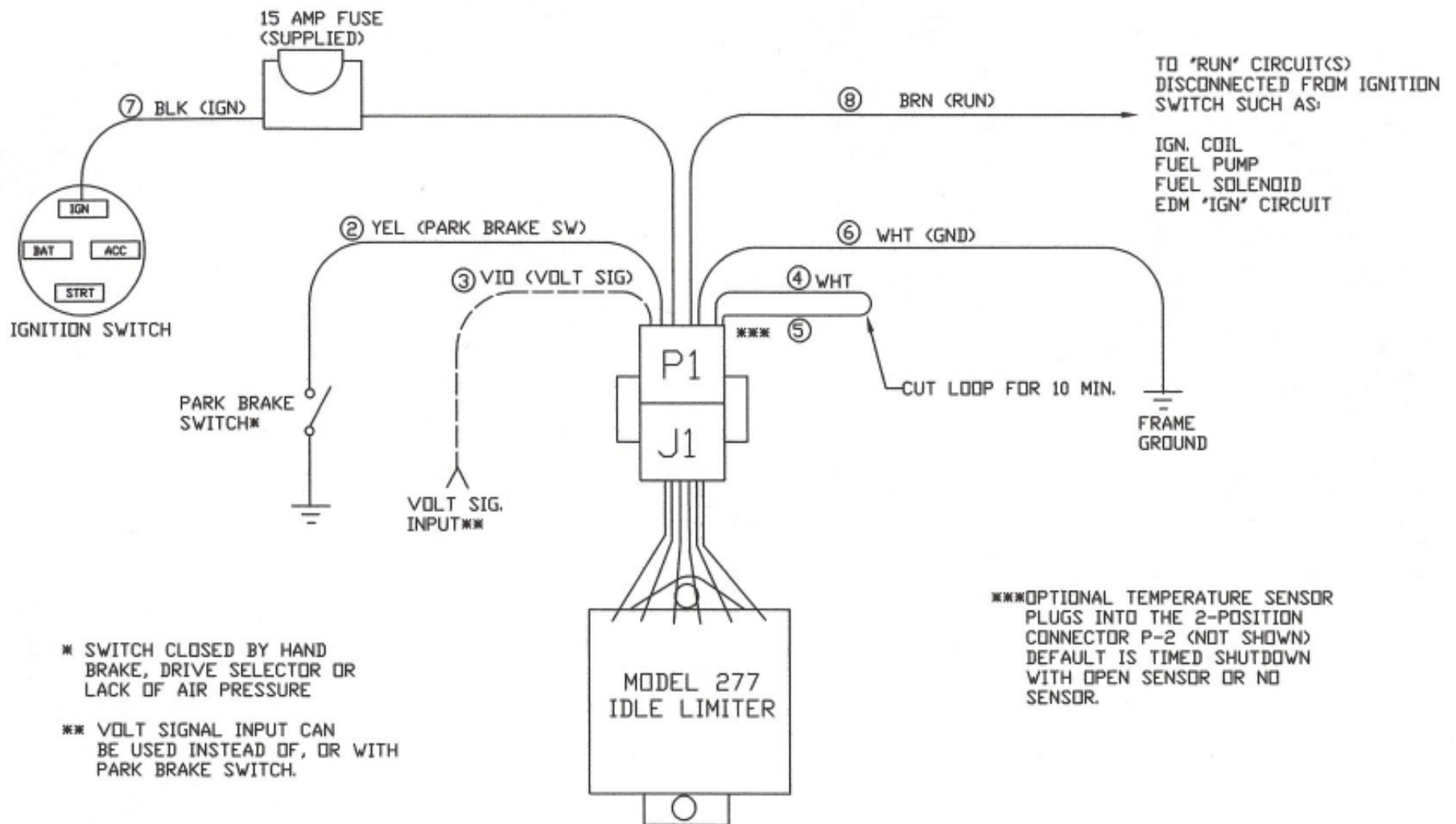
1. Connect the RED fused wire (BAT+) to a battery circuit that is always "hot."
2. Disconnect the accessory or accessories to be controlled (10 amps max.), from the ACC position of the ignition switch (or fuse block) and connect them to the BLUE wire (ACC).
3. Connect the GREEN wire (ACC+) to the ACC position of the ignition switch (or fuse block) where the accessory wire(s) were removed in the step above.

ECM STOP SIGNAL

If the ECM requires a "stop" signal for engine shut down, connect the GRAY wire (STOP SIG.) to the ECM "stop" input. The GRAY wire will be "hot" (12/24V) when the idle limiter times out. To activate this feature, the RED and GREEN wires must also be connected as for ACCESSORY CONTROL, above. If the BLUE wire is not being used for accessory control, it should be either removed or insulated with tape.

CHANGING IDLE LIMIT TIME TO 10 MIN: If it is desired to change the idle limit time from 5 minutes (standard) to 10 minutes, cut the WHITE wire loop on connector P1 at its center and insulate the ends with tape or heat shrink tubing. These wires may be re-connected if 5 min. is required later.

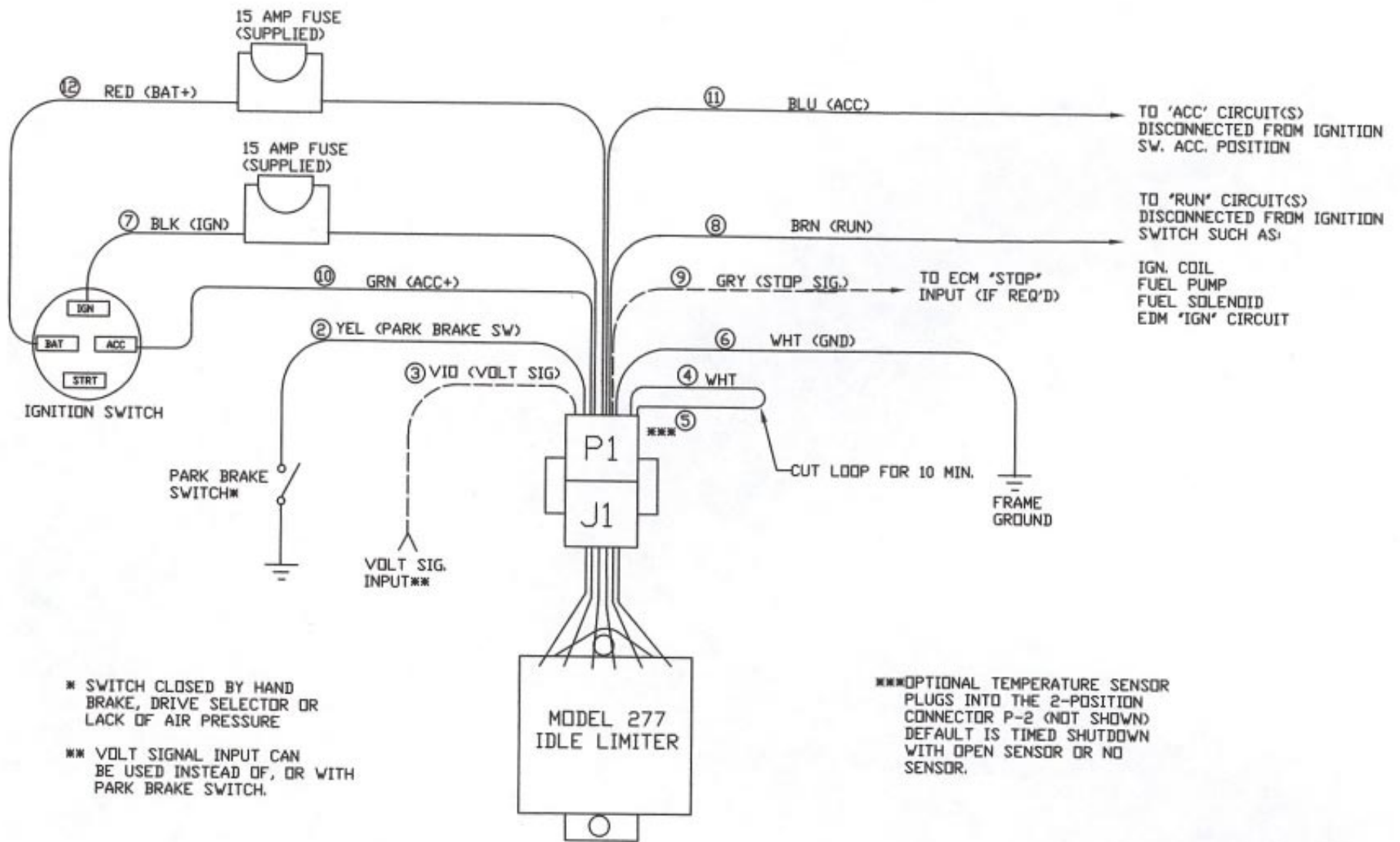
TEMPERATURE SENSING: If it is desired to make idle limiting dependent on ambient temperature, plug the optional temperature sensor into the 2-pin connector P2. Locate the temperature sensor where it will sense true ambient temperature and not be influenced by the direct sun or engine heat. Idle limiting will then be disabled for driver comfort if the ambient temperature is below 40° F or above 78° F.



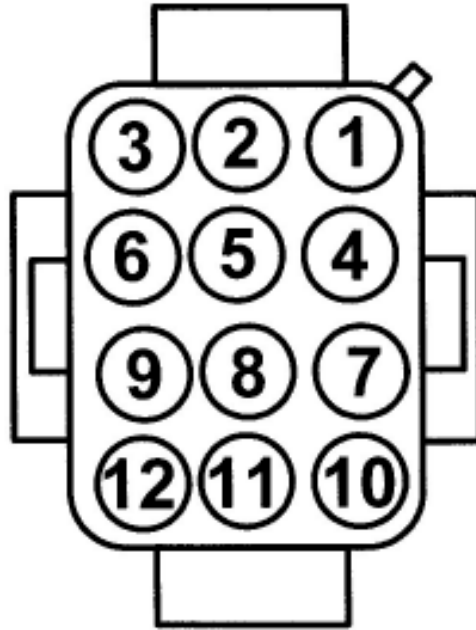
* SWITCH CLOSED BY HAND
BRAKE, DRIVE SELECTOR OR
LACK OF AIR PRESSURE

** VOLT SIGNAL INPUT CAN
BE USED INSTEAD OF, OR WITH
PARK BRAKE SWITCH.

Wiring Diagram
Model 277 Idle Limiter
Minimum 4-Wire Installation



Wiring Diagram
 Model 277 Idle Limiter
 With Accessory Control



MATING HARNESS, WIRING SIDE

MODEL 277 TECHNICAL SUPPORT

Contact Steve Wida or Brian Attinger
Via Phone: 800-403-3728 (8-5 ET M-F)

Via E-mail:

swida@flightsystems.com

battinger@flightsystems.com



FLIGHT SYSTEMS

505 Fishing Creek Road Lewisberry, PA 17339 USA

717-932-9900

Fax: 717-932-9925

www.flightsystems.com