

Engine Governing Systems



APPLICATION GUIDE

SUBJECT

Start-Up Smoke Control

PRODUCT AFFECTED

ECD67-5221 Speed Control Unit

REASON FOR BULLETIN

To avoid smoke during engine start-up

24 VOLT SYSTEMS ONLY

INSTRUCTIONS

Remove the diode from the circuit board as shown in Figure 1 and connect a 25 watt, 50 ohm rheostat to the actuator feed wire as shown in Figure 2.

The adjustments are as follows:

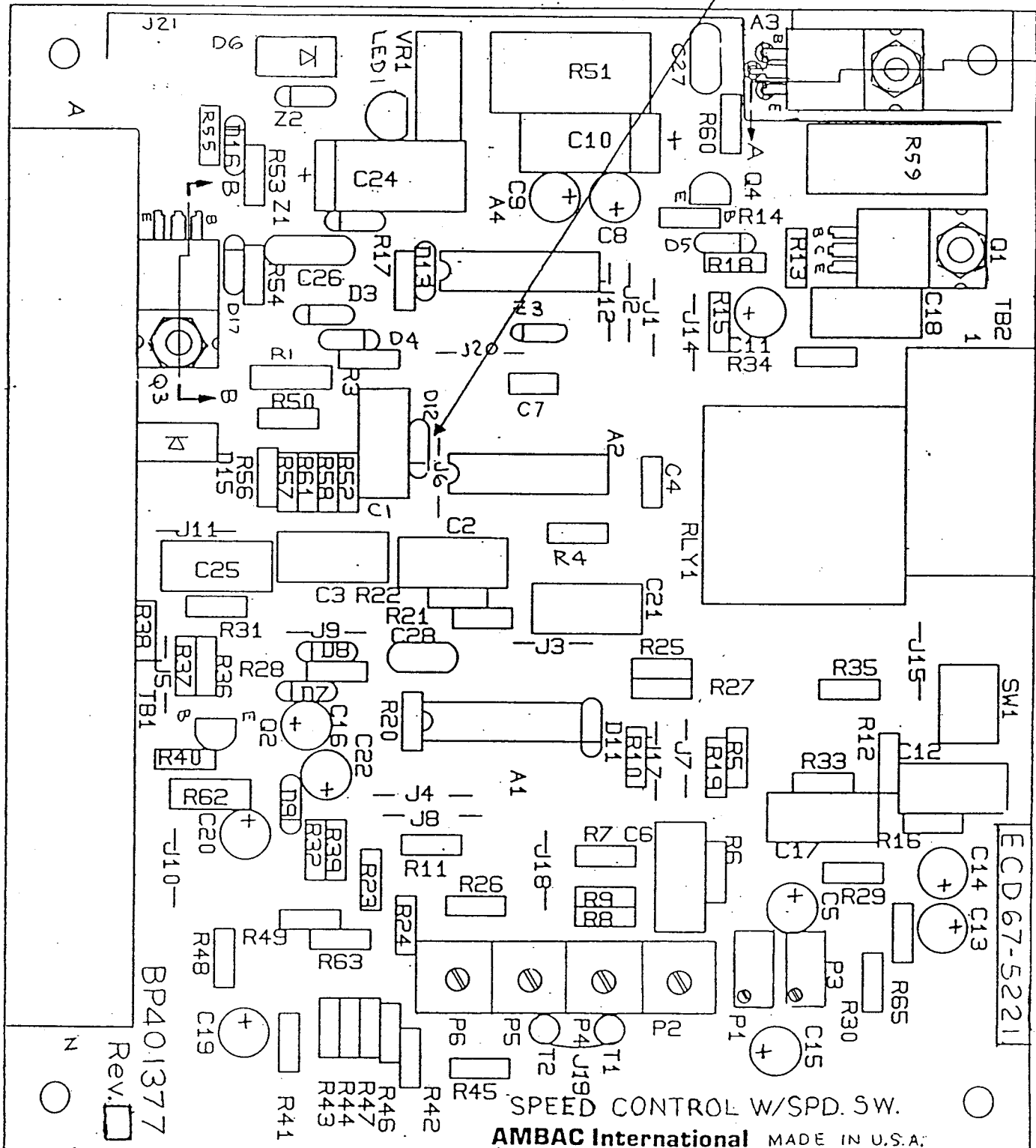
- 1) Set rheostat to zero resistance by turning fully counterclockwise.
- 2) Run the engine at the set frequency (60 or 50 Hz) until at normal operating temperature.
- 3) With no load on the generator, measure the actuator current.
- 4) Reduce the speed setting of the "overspeed relay" until the relay just trips and the LED lights up. Reference EG50-2B for ECD67-5221 Speed Control Description.
- 5) Shut down the engine.
- 6) With a jumper temporarily connecting A to E on the Speed Control Unit and the LED not lit, set the rheostat to give 110% of actuator current flow measured in step 3.
- 7) Remove the jumper from A to E.

The unit is now set. During normal running after power is removed from the Speed Control Unit at shutdown, the system will reset and supply reduced fuel delivery and acceleration smoke during initial start-up. If smoke limiting is required following idle running, this can be achieved by pressing the 'reset button' on the Speed Control Unit.

For engines which need full throttle fuel injection for starting, connect the starter motor relay directly to actuator terminal which is connected to terminal B of the ECD67-5221 Speed Controller.

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REMOVE DIODE D12



CIRCUIT BOARD MODIFICATION

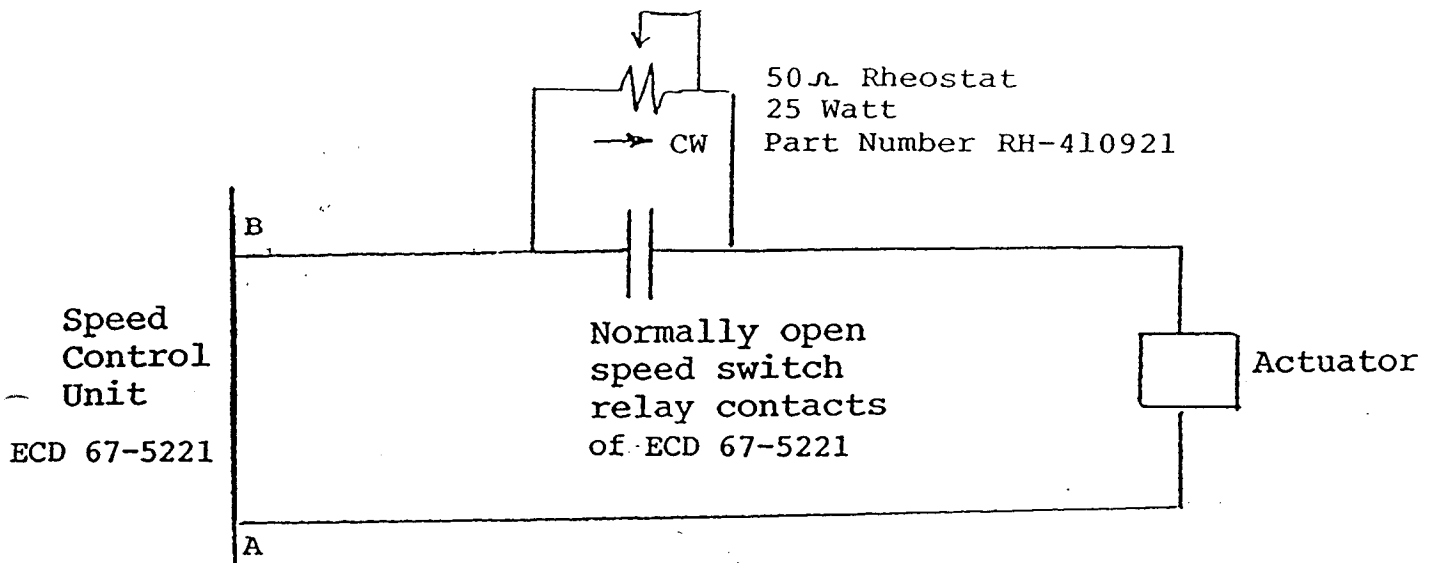
Figure 1

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System Interconnection