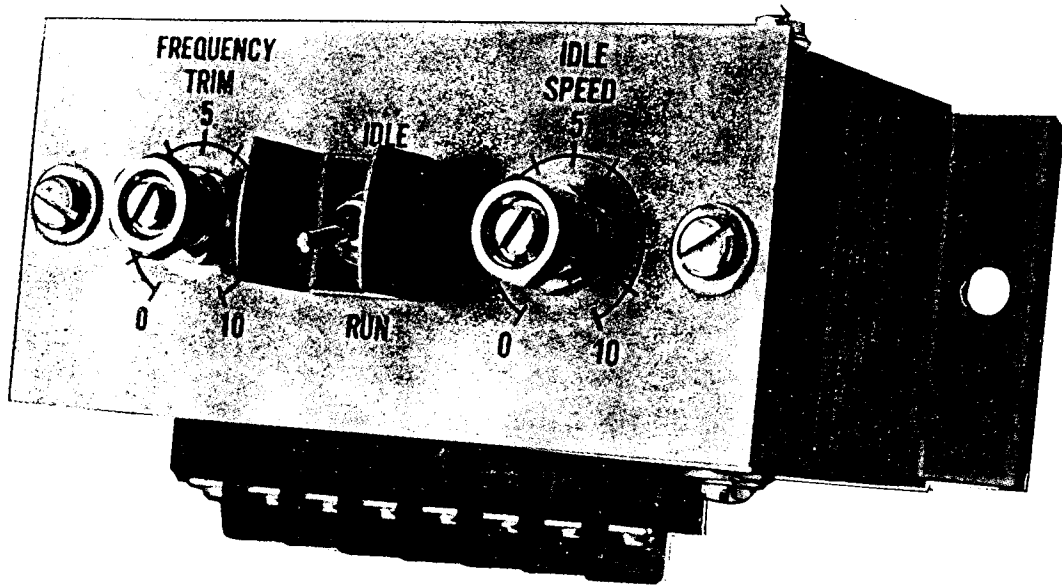


KT 6722A

IDLE/RUN KIT



ENGINE GOVERNING SYSTEMS



KT 6722A

INTRODUCTION

The KT 6722A Idle/Run Kit permits an engine to be run at either idle speed or operating speed by the use of an integral selector switch. Idle speed is adjustable by a control on the top cover. A frequency trim control is included on the top cover to trim engine speed.

The Idle/Run Kit needs to be used in conjunction with AMBAC "C" Series speed control units which are set

to accept external variable speed operation. The CU671C-17 and CU673C-17 speed control units are preset for external variable speed operation and all other "C" series speed control units will require a field modification. Refer to "Modifying The Speed Control Unit" for instructions (see Page 3).

SPECIFICATIONS

KT 6722A IDLE/RUN KIT

- Frequency (Speed) Trim Range ± 200 Hz
- Idle Speed Range 600 to 3500 Hz (Approximately 250 to 1500 RPM)

POWER INPUT

- Switch Contact Ratings 10 amp maximum, 125 VAC
- Power Consumption Less than 20 milli-watts

ENVIRONMENTAL

- Temperature Range -55° to $+85^{\circ}$ C (-65° to $+185^{\circ}$ F)
- Relative Humidity up to 100%
- Case Fungus proof and corrosion resistant

PHYSICAL

- Dimensions See Figure 1

INSTALLATION

The KT 6722A Idle/Run Kit may be mounted in any convenient location within 6m (20 ft.) of the speed control unit.

NOTE: If the distance from the speed control unit to the Idle/Run Kit exceeds 3m (10 ft.), shield terminal J.

Use #20 gauge stranded wire or any other convenient size for all connections from the idle/run kit to the speed control unit. See Figure 1\2 for wiring diagram.

ADJUSTMENTS

Set Idle/Run toggle switch in run position. Set frequency trim (on the top cover) to position 5 on scale ($\frac{1}{2}$ turn). Start the engine. Adjust engine full load speed by turning the frequency adjust screw which is located through the rear cover of the speed control unit. Turn CW to increase engine speed and CCW to decrease engine speed. After full load speed has been set, any minor speed correction is made by turning the frequency trim on the top of the Idle/Run Kit.

To set idle speed, place the idle speed (on the top cover) to position 5 on scale ($\frac{1}{2}$ turn). Turn toggle switch to "idle". If idle speed is too high, turn idle speed adjust CCW to desired setting. See the above note if instability exists.

NOTE: Do not attempt to connect an external speed trim control such as CU6710A or equivalent. The frequency trim on the idle/run switch is the only frequency trim to be used.

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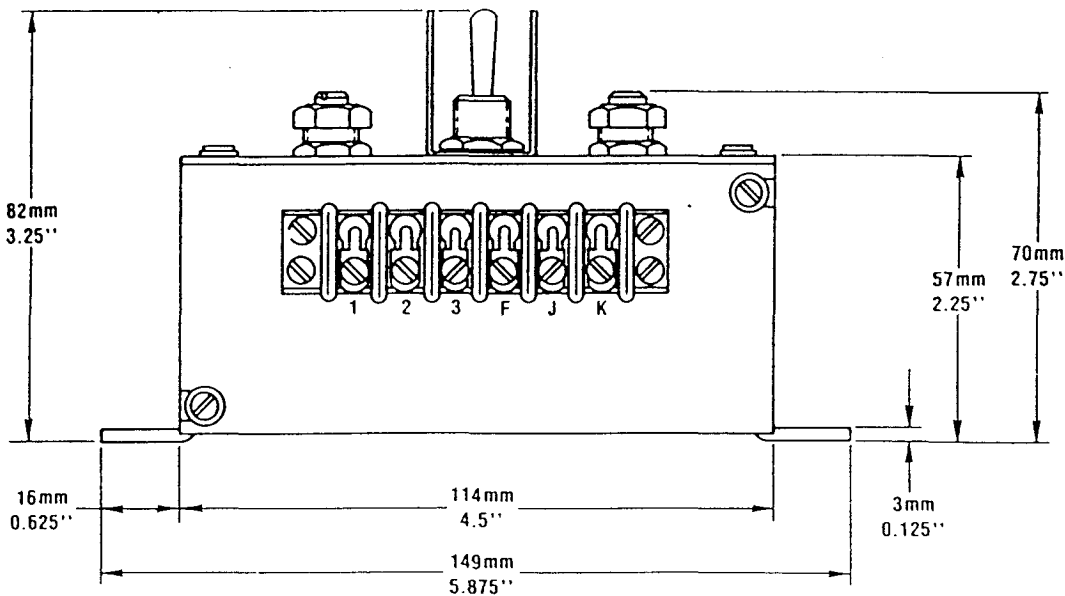
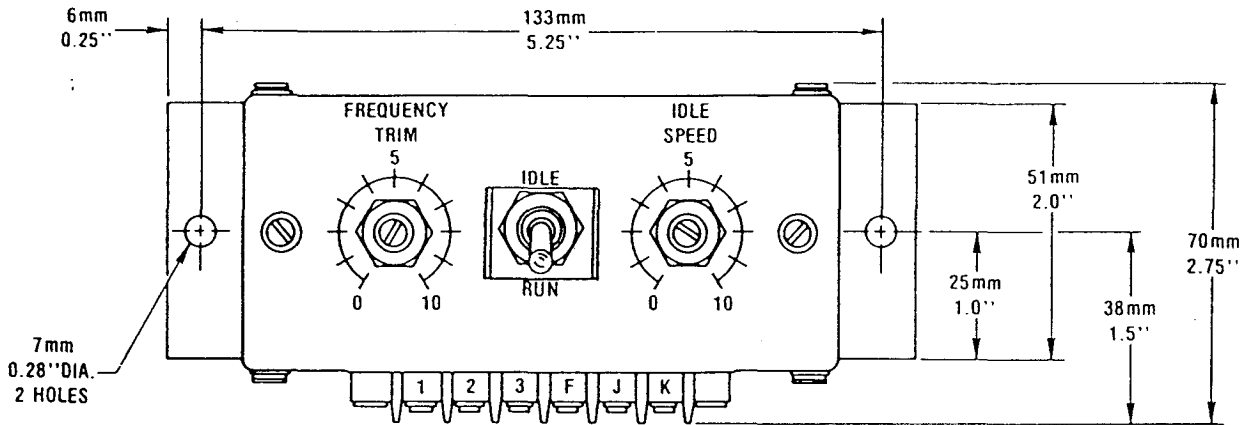


Figure 1. KT 6722A Idle/Run Kit dimensions

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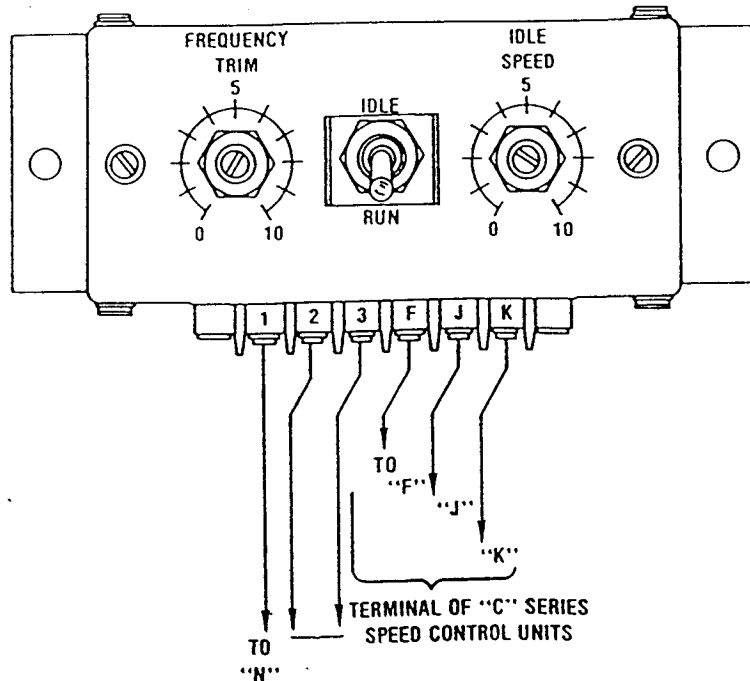


Figure 2. Wiring to KT 6722A Idle/Run Kit

MODIFYING THE SPEED CONTROL UNIT

Modification of standard speed control units for external variable speed operation is as follows:

1. Remove the rear cover stamped "FREQUENCY ADJUST".
2. Locate the three lugs identified in the illustration as lugs "A", "B" and "C" (see Figure 3).
3. Cut the jumper between lugs "B" and "C" and replace the jumper with a 2K ohm, 1%, temperature stable resistor. This resistor is supplied with each Idle/Run Kit.
4. Connect lugs "A" and "C" with jumper.
5. Replace the end cover.

KT 6722A

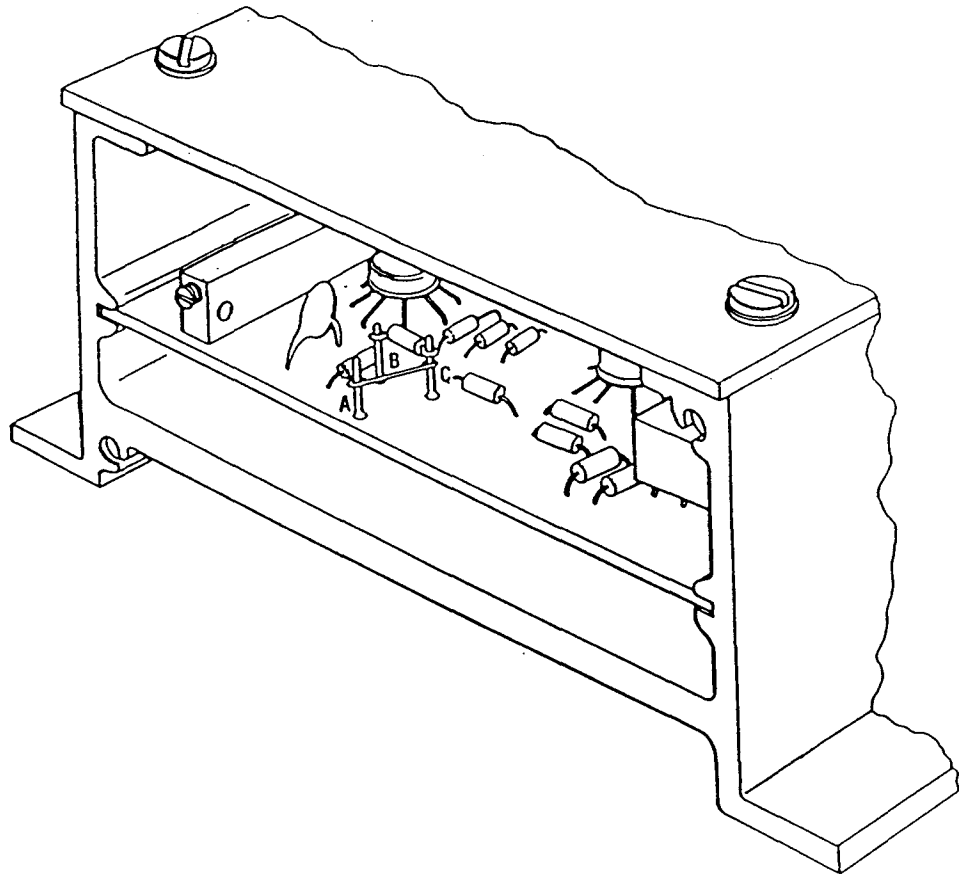


Figure 3. Location of post "A", "B", and "C"