(a) Check the lift of the contact blade tip above the top of the pedestal (A) with a feeler gauge, bending the stop finger 'X' beneath the pedestal, if necessary, to obtain a lift of 0.9mm +/- 0.13mm (0.035 +/- 0.005 inch).

(b) Check the gap between the rocker finger and coil housing (B) with a feeler gauge, bending the stop finger 'Y' beneath the pedestal, if necessary, to obtain a gap of 2.3mm +/- 0.13mm (0.090 +/- 0.005 inch).

9
(a) Tuck all spare cable into position so that it cannot foul the rocker mechanism. See that the diode resistor or condenser is fitted snugly into the end cover at the correct attitude. Ensure that the end cover seal washer is in position on the terminal stud.

(b) Fit the Bakelite end-cover and lock washer, secure with the brass nut, fit the terminal tag or connector, and then the insulated sleeve.

(c) The pump is now ready for testing.

(d) After test replace the rubber sealing band over the end cover gap and seal with adhesive tape. This may be removed to improve ventilation when the pump is mounted internally in a moisture free region but must be retained otherwise.

**Electrical Connections**

Terminals 1 and 2 are the pump-coil connections. The 2 BA tag is connected to the terminal stud and the 5 BA tag goes under the pedestal securing screw. Terminal 3 is the earth connection from the points and goes under the pedestal securing screw to be earthed via the pump body to the car chassis.

Where capacitors are fitted they are connected across the pointy, i.e. one terminal to terminal 3 and the other rocker blade securing screw. They are not polarity conscious. Where varistors are fitted they are connected the same as capacitors but they are not polarity conscious. All kits made by Burlen Fuel Systems are now supplied with varistors. After fitment the pump can be wired to both positive or negative earth.

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**Pump Electrical Circuits - Schematic**

- **a.** Capacitor is wired in Parallel across the points
- **b.** Varistor is wired in Parallel across the points

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**Servicing Guide**

**IMPORTANT: Read Before Commencing Work**

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Note: The steel pin which secures the rocker mechanism to the pedestal is specially hardened and must not be replaced by anything other than a genuine SU part.

1
(a) Invert the pedestal and fit the rocker assembly to it by pushing the steel pin (1) through the small holes in the rockers and pedestal struts.
(b) Then position the centre toggle so that, with the inner rocker spindle in tension against the rear of the contact point, the centre toggle spring is above the outer spindle (as in insert).
(c) This positioning is important to obtain the correct 'throw-over action'; it is also essential that the rockers are perfectly free to swing on the pivot pin and that the arms are not binding in the legs of the pedestal.
(d) If necessary the rockers can be squared up with a pair of needle nosed pliers.
(e) Assemble the square headed 2 BA terminal stud (2) to the pedestal, the back of which is recessed to take the square head.

2
(a) Assemble the 2 BA washer (1) and put the terminal stud through the 2 BA terminal tag (2), the fit then lead washer (3) and the coned nut with the coned face to the lead washer. (This makes better contact than an ordinary flat washer and nut).
(b) Tighten the 2 BA nut and finally add the end-cover seal washer (5).
(c) Assemble the pedestal to the coil housing (see figure 2) by fitting the 2 BA pedestal screws (6), and ensure that the spring washer (7) on the left-hand (9 o'clock position) is between the pedestal and earthing tag (8).
(d) Tighten the screws, taking care to prevent the earthing tag from turning, as this will strain or break the earthing flex. Do not overtighten the screws or the pedestal will crack.
(e) Do not fit the contact blade at this stage.

3
(a) Place the armature spring into the coil housing with its large diameter towards the coil.
(b) Before fitting the diaphragm, make sure that the impact washer (1) is fitted to the armature. (This is a small neoprene washer that fits in the coil recess.) Do not use jointing compound or dope on the diaphragm.
(c) Fit the diaphragm by inserting the spindle into the hole in the coil and screwing it into the threaded trunnion in the centre of the rocker assembly.
(d) Screw in the diaphragm until the rocker will not 'throw-over'; this must not be confused with jamming the armature on the coil housing integral steps.
(e) On later type rocker mechanisms with adjustable fingers, fit the contact blade and adjust the finger settings, then carefully remove the contact blade.

4
(a) Holding the coil housing assembly in the left hand in an approximately horizontal position, push the diaphragm spindle in with the thumb of the right hand, pushing in firmly but steadily.
(b) Unscrew the diaphragm pressing and releasing with the thumb of the right hand until the rocker just 'throws-over'.
(c) Not turn the diaphragm back (unscrew) to the nearest hole and again a further four holes (two thirds of a complete turn). The diaphragm is now completely set.

5
(a) Fit the armature guide plate, flat face towards the diaphragm edge and inserting an end lobe into the recess between the armature and the coil housing.
(b) Follow this process until all four lobes are approximately in position, the press each lobe firmly home finishing with the two end ones. The latter instruction is important in order to avoid distortion of the connecting arms between the lobes.

6
(a) Fit the contact blade (2) and coil lead (1) to the pedestal (3) with the BA washer and screw. Where a diode resistor is fitted it is in parallel with the coil connections. This component is polarity conscious and therefore all connections must be correctly made. A condenser, where fitted, is not polarity conscious.

7
(a) Check that when the outer rocker is pressed onto the coil housing, the contact blade rests on the narrow rib or ridge which projects slightly above the main face of the pedestal. If it does not, slacken the contact blade attachment screw, swing the blade clear of the pedestal, and bend it downwards a sufficient amount so that when repositioned it rests against the rib lightly. Over-tensioning of the blade will restrict the travel of the rocker mechanism.