

is in series with the circuit and ohmmeter, the ohmmeter should deflect when first connected and then return to the circuit resistance value. This deflection indicates that the capacitor can take a charge. If this deflection does not occur, the capacitor is open-circuited and should be replaced. If the ohmmeter deflects and remains below the value of any parallel resistive components, the capacitor is either short circuited or leaky and should be replaced.

14. CONVERTER ADJUSTMENT

To measure closure time of the converter (chopper) contacts, first remove the converter from its socket but leave the top plug connected. Connect a volt-ohmmeter analyzer (ohms x 100 range) between pins 2 and 3 of the converter base. With the converter held upright and the analyzer laid flat on a horizontal surface, note the analyzer reading on the 0-100 d-c volt scale. Connect the analyzer between pins 3 and 4 of the converter base and again note the reading. These readings are equal to the percentage closure times of contacts 3-2 and 3-4 respectively, and should be between 35 and 55. Consider the percent error of the analyzer before determining that the closure time is incorrect.

If converter closure times are not within the specified limits, the converter can be adjusted.

Find the two holes in the converter case under the metal lable and very carefully puncture the lable. With the analyzer connected to measure contact closure, as described above, use

a #6 hex socket setscrew wrench to turn the adjusting screws (accessible through the holes) until closure time is 45 percent for each set of contacts. The front adjustment (on the label side) controls closure time between pins 2 and 3. Turning the adjusting screws clockwise decreases closure time, and conversely.

IMPORTANT: After adjusting the converter, use a piece of non-magnetic metallic tape to seal the holes in the case. This is essential, since the entrance of even small amounts of dust may render the converter unusable.

15. SUGGESTED SPARE PARTS

| <u>Quantity</u> | <u>Description</u> | <u>L&N Part No.</u> |
|-----------------|-------------------------------|-----------------------------|
| 1 | 12AX7 electron tube | 22-1-0-6 |
| 1 | selected 12AX7 tube | 22-1-0-12 |
| 1 | 5963 electron tube | 22-1-0-7 |
| 1 | Chopper 50/60~ | 354197 |
| 1 | Meter (1 ma movement) | 021028 |
| 1 | Pilot lamp | 026083 |
| 6 | 0.6 amp Slo-Blo fuse | 14-5-0-3 |
| 1 | Shielded input cable assembly | 37-2-0-10 |