

- 2.1.5 Customer notes on the nature of the fault should in general be ignored. It is often better that the repair task is approached with an open mind and with no pre-conceived idea of the fault.
- 2.1.6 In the case where the customer has returned peripheral equipment (eg memory cards) with his faulty unit, the unit must first be tested with the plug-in modules disconnected. The unit under repair should have the bezel removed and the keyboard detached from the bottom cover assembly. Batteries should also be removed and power applied from a serviceable adaptor.
- 2.1.7 Where the substitution method is used to check a suspect component, the suspect component should be connected into the known serviceable unit rather than the other way round. The faulty component is less likely to damage the working unit, thus safeguarding the unit and the known serviceable component.
- 2.1.8 In order to prevent the Z88 from switching itself off after its 5 minute time-out period, which on a critical fault could be frustrating, change the time-out period as follows:
- (a) Select the Index display and the Panel option.
  - (b) Select the required field indicated by the flashing digit 5.
  - (c) Key in the digit 0 and press ENTER.

The Z88 will now stay on permanently. In order to revert to the 5 minute time-out period, press the Reset switch.

- 2.1.9 Typical waveforms and voltages taken from a serviceable unit with the Index displayed are set out in Tables 4.1, 4.2 and 4.3 below. Voltages present when the Z88 is in the coma state are listed in Table 4.4

## 2.2 Power Up

- 2.2.1 If, when the two SHIFT keys are depressed, the Index is displayed it can be assumed that most of the system is working. If it is possible to select Pipedream and generate and store a file, then it can be assumed that the basic system is healthy.
- 2.2.2 If, when the two SHIFT keys are depressed, the unit does not display the Index and the screen remains blank, carry out the following procedure.
- (a) Check that the ribbon connector to the LCD is aligned and connected correctly. It is possible for this connector to be misaligned causing a blank screen.
  - (b) Press both SHIFT keys to power up the unit.
  - (c) If the unit does not power up, disconnect the two keyboard ribbon connectors. This action should switch on the unit. If the unit does not switch on, reconnect the two keyboard connectors.