
Title:

FPA 801 MAINTENANCE PROCEDURES

Skew Compensation.

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Abstract:

This paper describes how to skew compensate FPA 801 front - end
processor adapter.

Skew compensation

Two potentiometers are used to compensate for transmitter / receiver skew, cable skew and logic delays when data or address is received from the RC 8000 bus. The potentiometer are located in position 62.

Position 62.

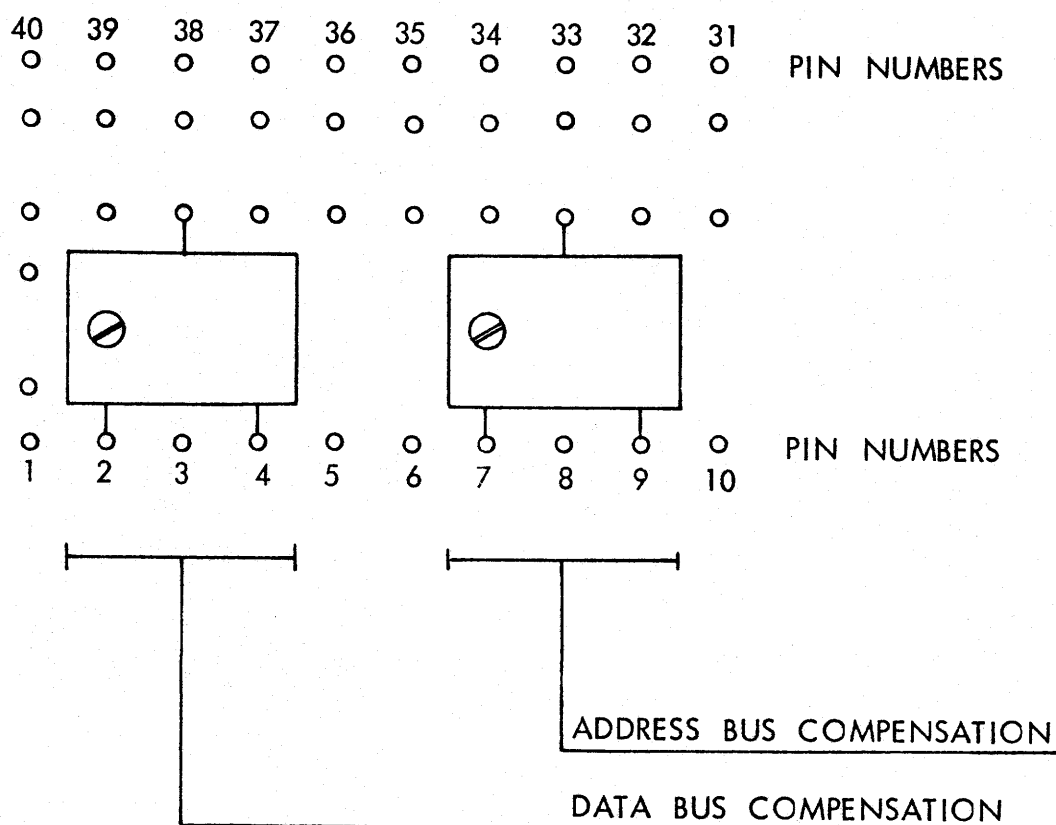


Fig. 3.3.1.

DATA BUS COMPENSATION is used when data is received from the RC 8000 bus. The compensation delay must be adjusted to app.120 nS. Data bus compensation delay is adjusted as follows (refer to diagram 23 and fig. 3.3.2) :

1. Set oscilloscope to trigger on the rising edge of the delay for ACK IN IC 42-pin 3.
2. Observe the falling edge of $\bar{A}$, (MASTER DEL ACK DATA IN) IC 51 - pin 6, and adjust the potentiometer until a delay of 120 ns is obtained.

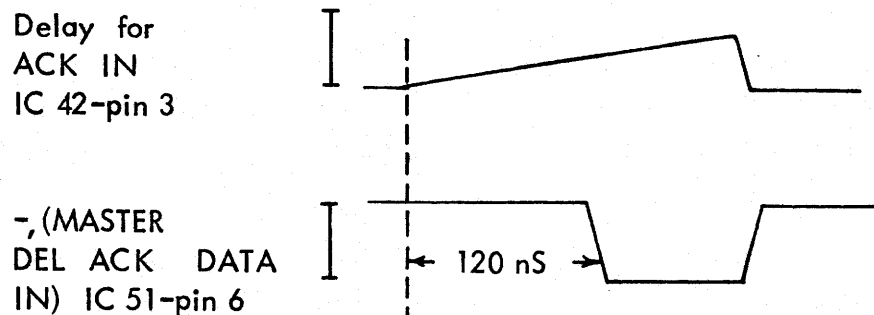


Fig. 3.3.2

ADDRESS BUS COMPENSATION is used when FPA 801 is addressed from the RC 8000 address bus (start channel program and Reset Unit). The compensation delay must be adjusted to app. 150 ns.

Address bus compensation delay is adjusted as follows (refer to diagram 24 and fig. 3.3.3) :

1. Set oscilloscope to trigger on the rising edge of the delay for DATA READY in IC 42 - pin 8.
2. Observe the falling edge of IC 51 - pin 11, and adjust the potentiometer until a delay of 150 ns is obtained.

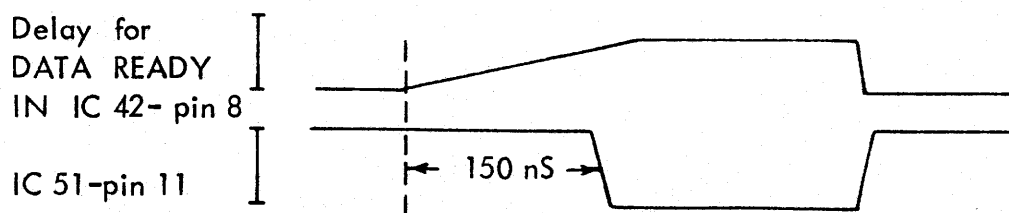


Fig. 3.3.3