

Teletype Model 3320 3JC, converted to Hewlett Packard Model 2752A

HP's Teletype Modifications

This Teletype has been modified by Hewlett Packard to become their Teleprinter Model 2752A, for connection to some HP system. The principal HP modifications were:

1. The inclusion of an HP-custom circuit board (HP part number 02752-6001) that allows remote control of the paper tape reader (PTR)
2. Wiring modifications to the current-loop interface, principally to bias the Teletype's Transmit signal to +12V, and to provide +12V and -12V to the HP-custom circuit board in the Teletype
3. A custom HP edge-connector on the end of a custom HP interface wire
4. An hour meter

Teletype Modifications for 2SIO Compatibility

Minimum modifications were done to make this Teletype compatible with the MITS 2SIO board:

1. Unscrew and disconnect the red wire at Terminal X, pin 4 that goes to the custom HP circuit board. Insulate the end of this wire and tie it out of the way. (This removes the +12V bias on the Teletype's Transmit signal.)
2. There are two wires in the interface cable that are connected to Terminal X, pin 7. One is green; the other is orange. Cut the green wire close to Terminal X, crimp on a spade connector, and screw this into Terminal X pin 4. (This restores the normal Transmit signals on Terminal X.)
3. Remove the edge connector from the interface cable.
4. Install a DB25P connector to the interface cable as follows:

DB25S

Pin	Wire Color	Signal Name	Direction	TTY Connection
2	Green	RxD Return	TTY→2SIO	Terminal X pin 4
3	Blk/White(shield)	TxD Return (GND)	2SIO→TTY	HP Ckt Board (1)
11	Black	RxD	TTY→2SIO	Terminal X pin 3
13	Orange	TxD	2SIO→TTY	Terminal X pin 7
17	White	-12 Volts	2SIO→TTY	HP Ckt Board
18	Red	+12 Volts	2SIO→TTY	HP Ckt Board
19	Yellow	-PTR Enable	2SIO→TTY	HP Ckt Board
NC	Brown	-12 Volts	TTY→2SIO	HP Ckt Board

(1) Note that this signal connects to Terminal X pin 6 within the Teletype.