Brother FAX-645 LCD initialisation sequence

Initial code, each byte written with a single pulse to the STB line,

08 - Display off, cursor off, blink off

20 - Mode 4 bit, 1 line, 5x7 font

F8 - Set Data cursor to 0x78 (but writes no data as strobe goes high again)

01 - Clear display. 20mS delay before next sequence.

Second initialisation sequence after 24mS, 800uS between bytes

06 - Right data entry, no scroll

OC - Display on, cursor off, blink off

The following bytes are written with STB held low for the duration

40 - Write to character generator (characters 0, 1, 2, 3 written)

OA 00 0E 01 OF 11 OF 00 - .#.#.

0A 00 0E 11 11 11 0E 00 -. # . ####. #...# #...# #...# .###. OA 00 11 11 11 13 0D 00 - .#.#. #...# #...# #...# #..## .##.# 06 09 1C 80 1C 09 06 00 -..##. . # . . # ###.. ###.. . # . . # ..##.

First displayed data written at 100mS after initialisation start, then repeated again at 131mS and 165mS

 ${\tt OC}$ - Display on, cursor off, blink off

The following bytes are written with STB held low for the duration

80 - Write characters to display starting at cursor position 0

The following two bytes are written with separate strobes and terminate the displayed character write

80 - Position cursor to position 0, but writes no characters as strobe goes high again

OC - Display on, cursor off, blink off

Text written at 198mS, then repeated sequence of blanking and rewriting again at 2.9S, 3.6S and 4.0S

OC - Display on, cursor off, blink off

The following bytes are written with STB held low for the duration

^{80 -} Write characters to display starting at cursor position 0

50 4C 45 41 53 45 20 57 41 49 54 20 20 20 20 20 -"PLEASE WAIT

The following two bytes are written with separate strobes and terminate the displayed character write

8F - Position cursor to position 15, but writes no characters as strobe goes high again

0C - Display on, cursor off, blink off

At 4.5S Display then blanked again and "TELEPHONE

" displayed

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