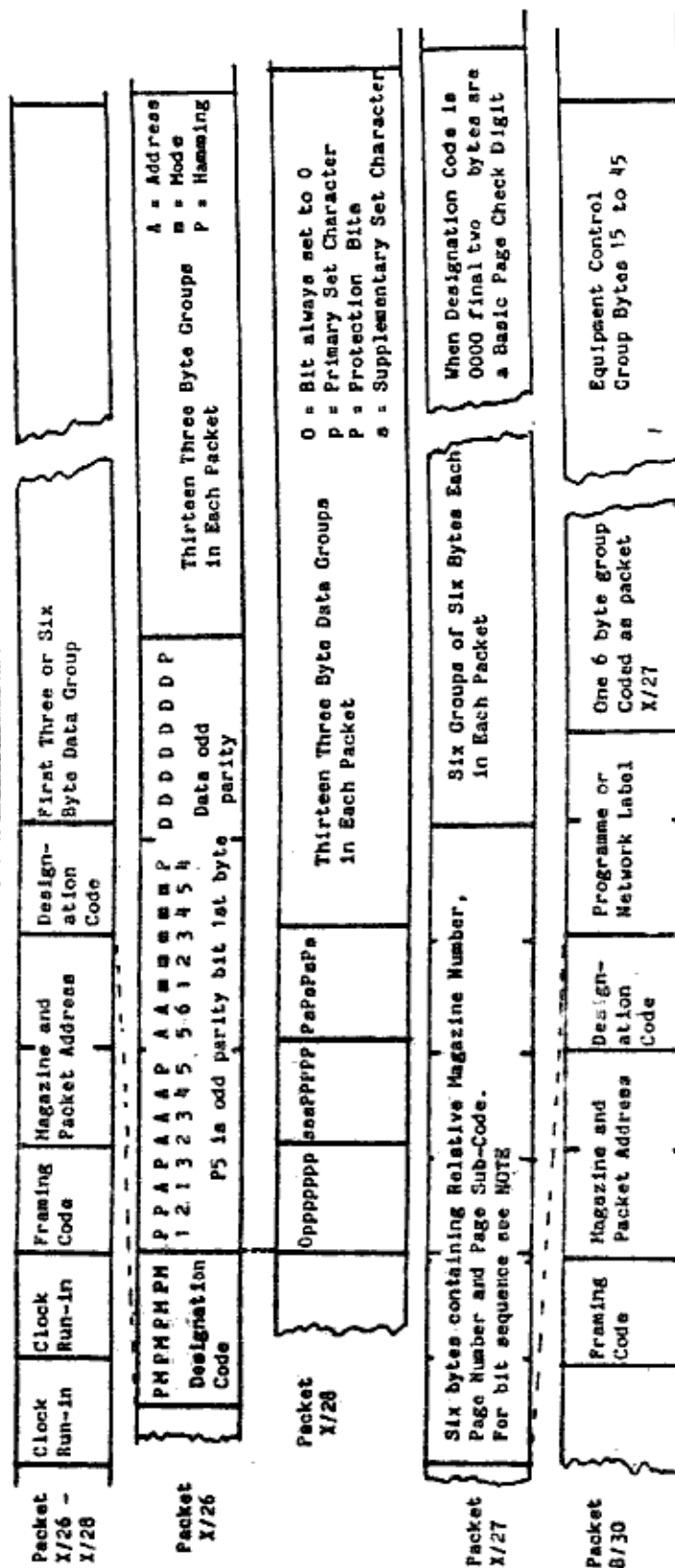


Figure 13

CHECK WORD GENERATION

In the example shown a 16 bit shift register has as input the modulo-2 sum of an external input and the contents of the 7th, 9th, 12th and 16th stages of the register. Initially the register is cleared to 'all zeros'. During a sequence of 8192 clock pulses the first 24 character bytes (192 bits) of the page header packet and the following character bytes of packet numbers with Y up to 25, in conventional transmission order form the external input. Any absent packets are considered to contain the character SPACE (2/0) throughout. At the end of this process the contents of the register are the Basic Page Check Word and it is transmitted along the register beginning with the bit held in the 16th stage.

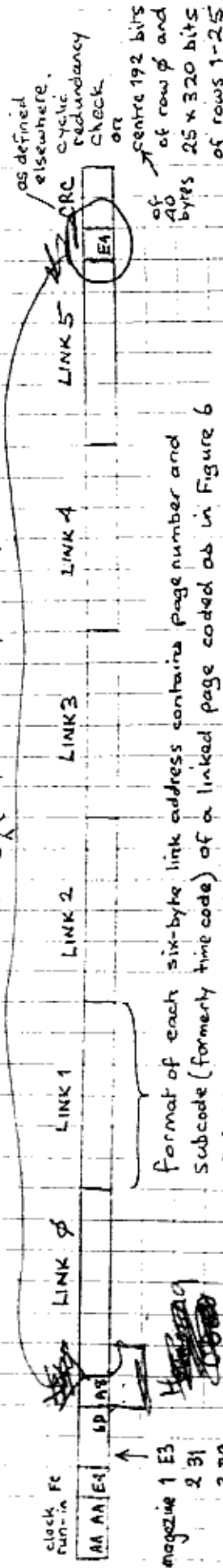
FORMAT OF PACKETS X/26 X/27 X/28 8/30



NOTE Page Number and Page Sub-Code have the same format as bytes 6 to 11 of the Page Header (see figure 1), packet X/0. The bits C4, C5 and C6 in this sequence are used to change the magazine number from that in bytes 4 and 5 of the packet X/27. Setting any of these bits to 1 complements the corresponding magazine number bit. In all cases the LEAST SIGNIFICANT bit is transmitted first.

Figure 2(a)

"Row 27" page service data line, transmitted as last row of every page (may alternatively be required to be immediately following every header)



Format of each six-byte link address contains page number and Subcode (formerly time code) of a linked page coded as in Figure 6 of Teletext specification in six bytes of page header following Magazine and Row address Group.  $C_4$ ,  $C_5$  and  $C_6$  are used to modify the current magazine number (carried in MRA6 of this line) to give magazine number of linked page. If this magazine is  $(M_2 \times 2^2) + (M_1 \times 2^1) + (M_0 \times 2^0)$  linked magazine is  $(C_6 \oplus M_2) 2^2 + (C_5 \oplus M_1) 2^1 + (C_4 \oplus M_0) 2^0$  where  $\oplus$  is exclusive-or. Normally  $C_4 = C_5 = C_6 = 0$ , i.e. linking is within one magazine.

clock run-in

AA	AA	E4
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↑

magazine	1	E3
	2	31
	3	39
	4	85
	5	6D
	6	BF
	7	57
	8	0B