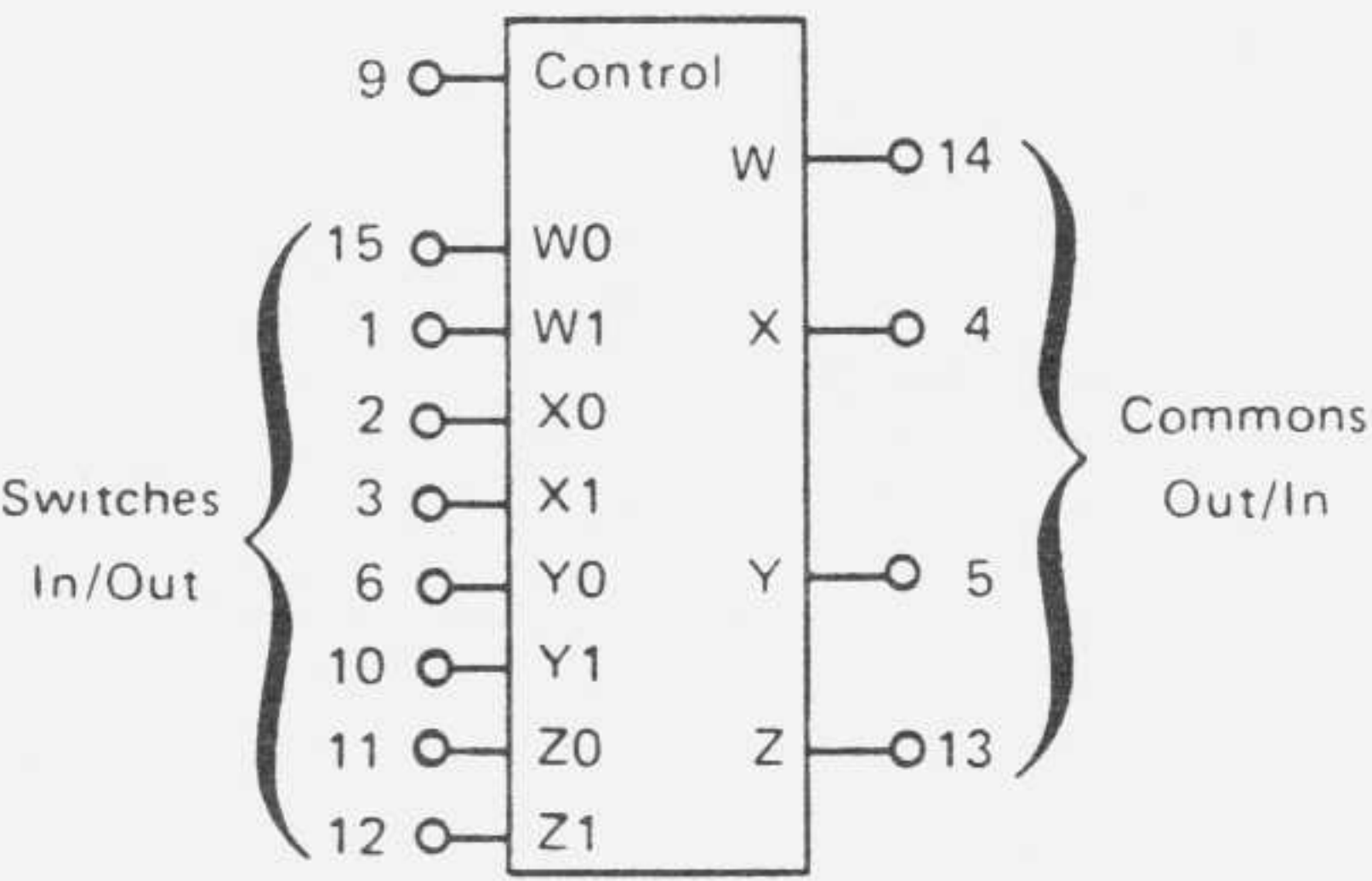


IC DATA

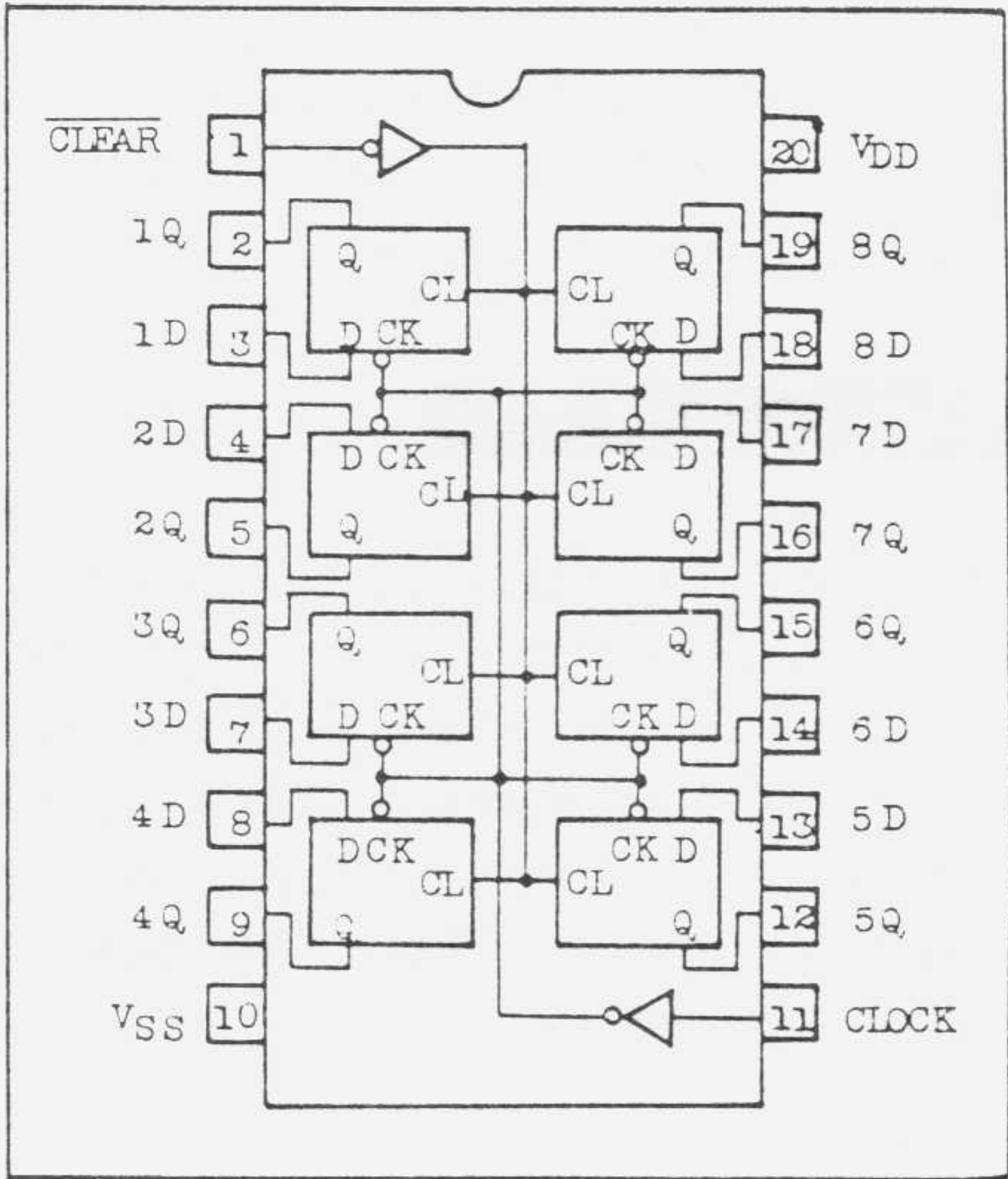
MC14551B
QUAD 2-INPUT
ANALOG MULTIPLEXER/DEMULTIPLEXER



Control	ON
0	W0 X0 Y0 Z0
1	W1 X1 Y1 Z1

VDD = Pin 16
VSS = Pin 8
VEE = Pin 7

Pin Configuration



TRUTH TABLE

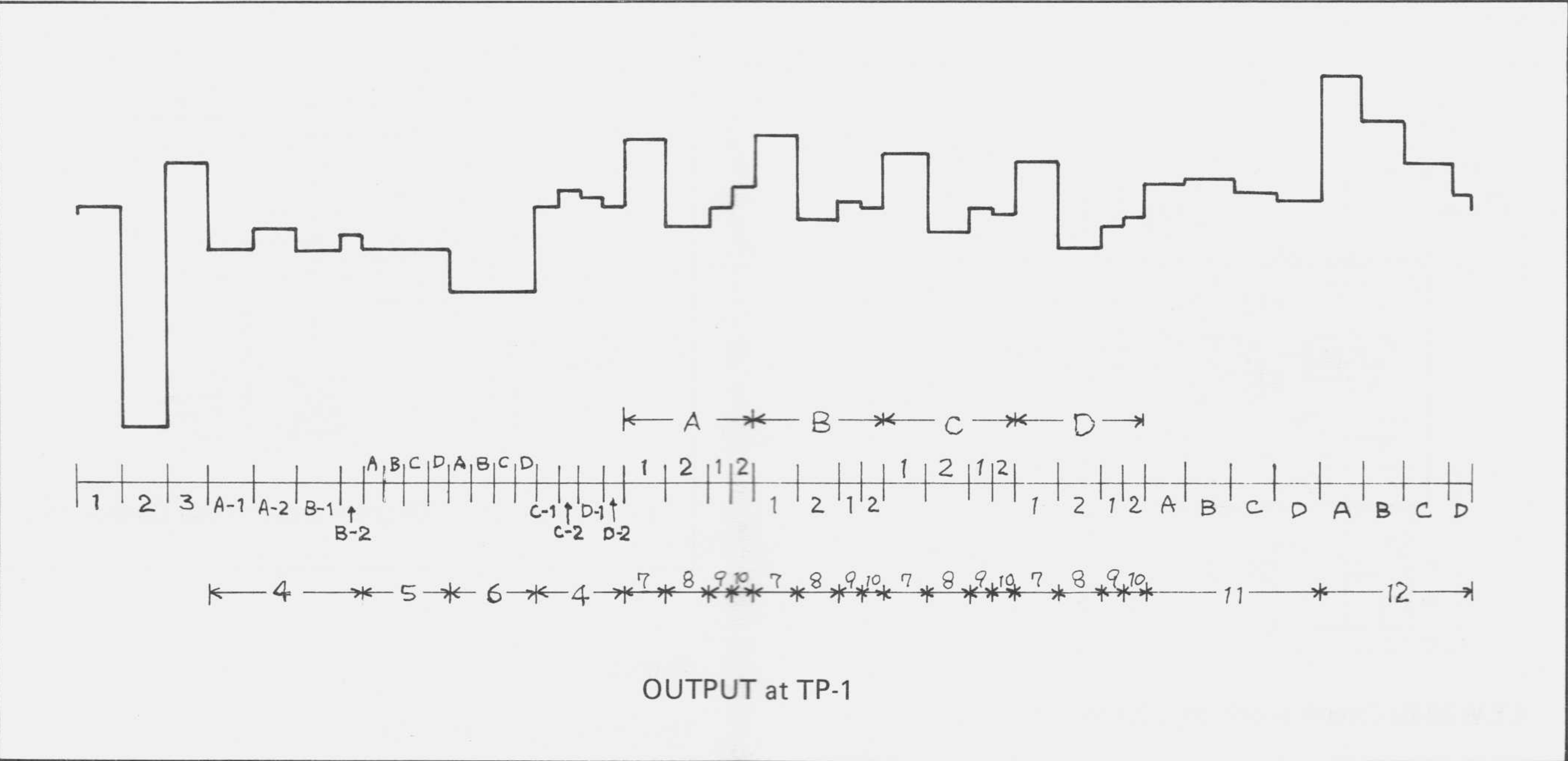
INPUTS			OUTPUT
$\overline{\text{CLEAR}}$	CLOCK	DATA	Q
L	*	*	L
H	↑	H	H
H	↑	L	L
H	L	*	Qo

* = Don't care

MODULE CONTROL VOLTAGE

The SLAVE CPU IC6 routes the data to IC11 and has the serial analog equivalents (CVs) at IC12 output, TP-1. Connect the scope to the TP-1 (TRIG on TP-4 signal). The figures exampled below will appear on the screen, taking altogether approx. 2.6ms with amplitudes about 10.7V maximum. (The amplitude of each waveform will,

of course, greatly differ from actual display being determined by a control setting.) These D/A outputs are commonly distributed to S/Hs and are individually sampled into and held at desired output of the S/H.



Contents at S/H Outputs

Numbers are keyed to numbers in the figure above and headings to designation of S/H outputs.

1. MIX

Amount of MIX control.
2. RESO

Amount of RESO control.
3. M.VCA

Amount of VCA ENV-2 LEVEL and VCA LFO controls.

The above three controls are common to all the voices in a MODULE BOARD.

4. WIDTH

Computune (width) data for each VCO, ideally approximately 5V. It may vary with the characteristics of the VCO IC. If the value greatly differs from the ideal value, the corresponding VCO is judged to be defective, unless the computune operation is improper.
5. PWM

Amount of PWM controls (PW, PWM ENV-1 and PWM LFO) fro each VOICE (two VCOs).

Four (two) displayed waveforms will become distinguishable from each other when keys are played non-legato in POLY-1 with the following control settings:

PWM = 10; ENV-1: S = 10, R = 0, A and D = at small amount.

The settings are also applicable to 6.X-MOD and 11. VCF waveforms

6. X-MOD

Amount of X-MOD controls (MANU, ENV-1).
7. CV 1

Amount of CV (RANGE, LFO, KCV and TUNE) for VCO-1.
8. CV 2

Amount of CV (the same parameters as for VCO-1) for VCO-2.
9. FREQ 1

Computuned data (FREQ) and ENV MOD control for VCO-1.
10. FREQ 2

Computuned data (FREQ) and ENV MOD control for VCO-2.
11. VCF

Amount of controls (FREQ, ENV, LFO and KYBD) to determine a cutoff point of VCF.
12. VCA

Amount of ENV-2 controls (A, D, S, R and K.F, except ENV-2 LEVEL) for the 1st VCA IC50.