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CIRCUIT DIAGRAM MODULE BOARD SN 280650 and up

A,B;MODULE BOARD(4 Voices)149H180
C,D etch mask 052H403A/B

A,B;MODULE BOARD(2 Voices)149H181
etch mask 052H403A/B

SN 280650 and up

SN 333000-up
for perfect
DC BALANCE

DC SUPPLY VCO

DC SUPPLY VCA

ANALOG SW

COMPU-TUNE

Comparator

Analog SW

LATCH

S/H

VCO

MIXER

VCF

1st VCA

2nd VCA

ADDRESS PROM PATCH

LEVEL SHIFTER

ADDRESS DECODER

VCO A1

VCO A2

VCO B1

VCO B2

VCO C1

VCO C2

VCO D1

VCO D2

VCF
See attached VCF circuit diagram

The later PCBs having CPU P8051-319J for IC6 do not require IC1 and IC5.
To enable the internal PROM.EA(pin31)of P8051 is pulled up through 10k ohms.
NOTE:P8051 without -319J must be treated as P8031

IC1 :TC40H373P
IC3 :74LS04
IC5 :2732A-B
IC7,8 :TC40H273P
IC10 :MC14504B
IC12 :TL081
IC14-20 :HD14051BP
IC27,44,45,52 :MC14551B
IC34A,34B,34C,34D,37A,37B :EHM-S226W83S
IC37C,37D
IC35A,35B,35C,35D,38A,38B,38C,38D :TC4053BP
IC43A,43B,43C,43D,50A,50B :CEM3360
IC50C,50D

IC2 :TC40H000P
IC4 :HA17903PS
IC6 :P8031
IC9 :74LS145
IC11 :ITS80141
IC13,49AB,49CD :IR9022
IC21-26,28-32 :TL064
IC33A,33B,33C, :CEM3340
IC33D,36A,36B,
IC36C,36D
IC39,40,54 :M5218L
IC41A,41B,41C, :BA662
IC41D,42A,42B
IC42C,42D
IC53 :uPC1252H2
IC55 :M5230L

RA2 :DAP-601

RA4A,4B,4C,4D, :RM0689
RA6A,6B,6C,6D

TR1,2,3 :2SA9370 or R

RA3A,3B,3C,3D :RM0889
RA5A,5B,5C,5D
RA7,RA10 :RM8-333J
RA8,RA9 :RM8-102J

D1-9 :1S2473

Highest ref des :IC54,TR3,D9,C119,R93,RA10,VR11

2VOICE ONLY