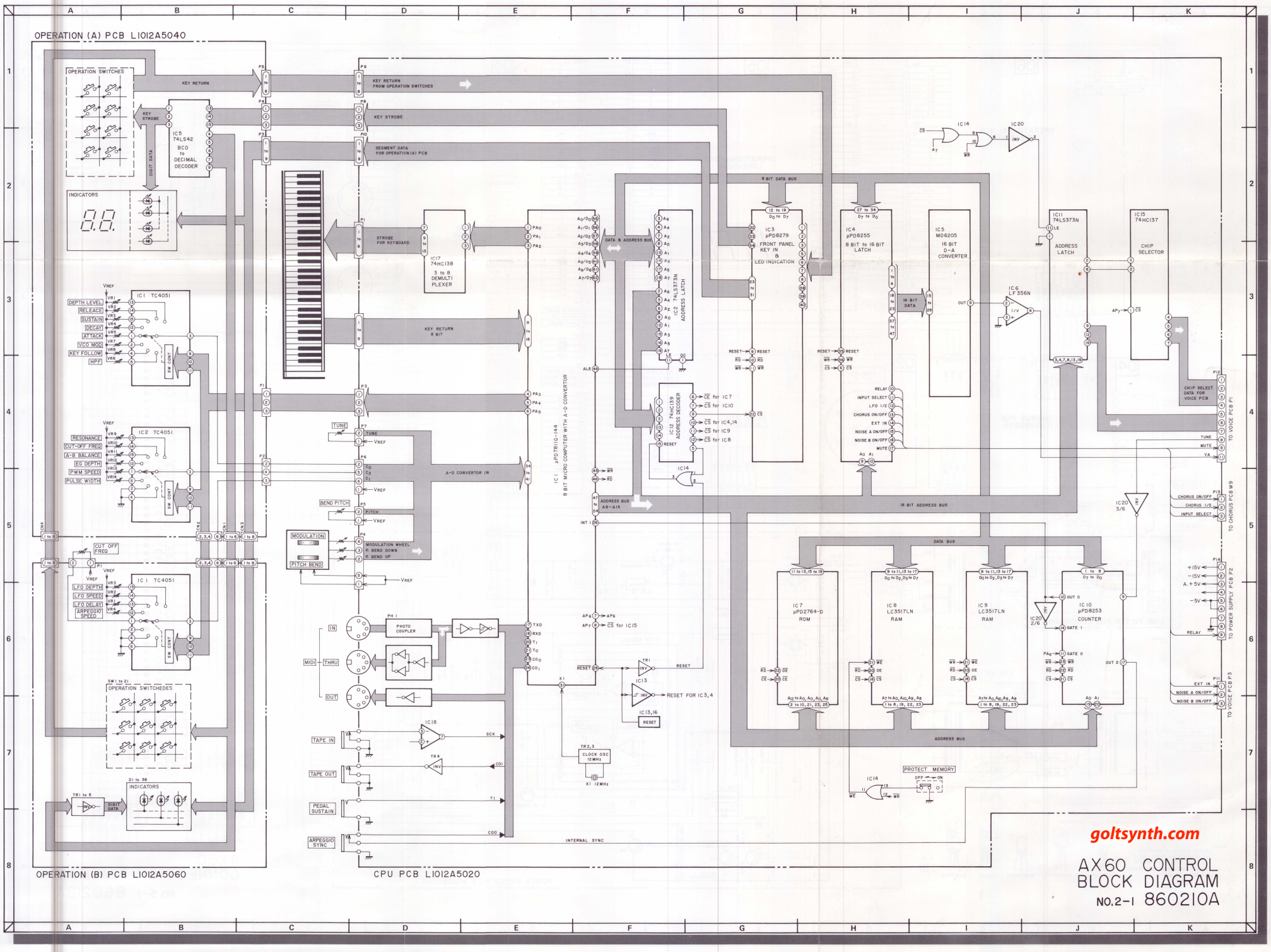
OPERATION (A) PCB L1012A5040
OPERATION SWITCHES
KEY RETURN
KEY STROBE
DIGIT DATA
IC5 74LS42 BCD to DECIMAL DECODER
INDICATORS
KEY RETURN FROM OPERATION SWITCHES
KEY STROBE
SEGMENT DATA FOR OPERATION (A) PCB
STROBE FOR KEYBOARD
IC17 74HC138 3 to 8 DEMULTI PLEXER
KEY RETURN 8 BIT
8 BIT DATA BUS
DATA & ADDRESS BUS
IC3 µPD8279 FRONT PANEL & LED INDICATION
IC4 µPD8255 8 BIT to 16 BIT LATCH
IC5 MD6205 16 BIT D-A CONVERTER
IC6 LF356N
IC11 74LS373N ADDRESS LATCH
IC15 74HC137 CHIP SELECTOR
IC1 TC4051
DEPTH LEVEL
RELEACE
SUSTAIN
DECAY
ATTACK
VCO MOD
KEY FOLLOW
HPF
IC2 TC4051
RESONANCE
CUT-OFF FREQ
A-B BALANCE
EG DEPTH
PWM SPEED
PULSE WIDTH
IC1 TC4051
LFO DEPTH
LFO SPEED
LFO DELAY
ARPEGGIO SPEED
CUT OFF FREQ
SW CONT
IC1 µPD7811G-144 8 BIT MICRO COMPUTER WITH A-D CONVERTOR
A-D CONVERTOR IN
TUNE
BEND PITCH
MODULATION
PITCH BEND
MODULATION WHEEL & BEND DOWN & BEND UP
IC12 74HC139 ADDRESS DECODER
IC14
ADDRESS BUS A8–A15
16 BIT ADDRESS BUS
DATA BUS
ADDRESS BUS
IC7 µPD2764-D ROM
IC8 LC3517LN RAM
IC9 LC3517LN RAM
IC10 µPD8253 COUNTER
IC20 INV
PHOTO COUPLER
IN
MIDI
THRU
OUT
IC18
TAPE IN
TAPE OUT
PEDAL SUSTAIN
ARPEGGIO SYNC
TR4
TR1 INV
IC13
RESET FOR IC3,4
IC13,16 RESET
TR2,3 CLOCK OSC 12MHz
X1 12MHz
INTERNAL SYNC
PROTECT MEMORY
OFF ON
CHIP SELECT DATA FOR VOICE PCB
TO VOICE PCB P1
TO CHORUS PCB W9
TO POWER SUPPLY PCB P2
TO VOICE PCB P3
CHORUS ON/OFF
CHORUS 1/2
INPUT SELECT
TUNE
MUTE
VA
RELAY
EXT IN
NOISE A ON/OFF
NOISE B ON/OFF
+15V
-15V
A. +5V
-5V
OPERATION (B) PCB L1012A5060
OPERATION SWITCHES
INDICATORS
CPU PCB L1012A5020
goltsynth.com
AX60 CONTROL BLOCK DIAGRAM
NO.2-1 860210A