KEYBOARD
(37 Key C~ C)

C4 ... C1

47Ω (1%) x 36

BACK PANEL

IN

UPPER OUT

LOWER OUT

IN

+10V

CP2

4.000V

500Ω 12K 1%

1.5K 1%

22K 1%

KEY SLOPE ADJ

560P

IC1(1/2)

4.7K

4.7K

IC2(1/2)

40.0K 0.1%

39.0K 0.1%

1K

0.0027

40.0K 0.1%

63.93K 0.1%

1K

100K 0.1%

+10V

for Adjusting Resistor

SAMPLE and HOLD

PORTAMENTO

+10V

4.7K

560K 2SK68AL (M)

2M(A) 2SK68AL (M)

2SK68AL (M)

3.3M

5.6M

5.6M

1μ/100V Film

1μ/100V Film

+15V

2SK68AL (M)

1K

39K 1%

K.CV ADJ

KEY IC1 — 0V

IC4 — 3.895V

8.2K

-15V

IC3

μPC741C

2.7M

470P

1K

WZ-090

+15V

100K

WZ197 18K

+15V

10K

27K

220K

-15V

100K

0.15

-15V

10K

0.01

+15V

5.6M

10μ

150K

10K

WZ-061

680K

1.8M

1M

82K

-15V

+15V

-15V

KEY ON OFF

0.12

5.6M

3.3M

-15V

KEY ON

1340 ms

530mV

1M

470K

1μ

CP5

+15V

(003~50Hz)

LFO FRFQ.

50K(A) 68K

330K

1.2K

3.3M

-15V

+15V

33Ω

1μ

47K

100K

47K 6

IC4(1/2) 7

5

47K

-15V

0.012

18K

47K

56K

47K

1K

WZ-090

WZ-061

3.3K

KYBD

LFO

TRIGGER

0.0039

0.001

0.0012

47K

47K

68K

47K

4.7K

0.22

22K

4.7K

39K

PORTA MODE

4'

2'

8'

16'

32'

64'

270Ω 1%

270Ω 1%

270Ω 1%

270Ω 1%

270Ω 1%

RANGE

LOW

10K

1.2K 1%

470K

+15V

1.8K

2M(A)

ATTACK

DECAY

+15V

10K

0.001

100K

68K

220K

1.8K

1M

2.2K

15K

10μ

12Vp-p

-15V

-15V

ENV I

ADSR

SAME AS ABOVE

ATTACK (4mS~4.5S)

DECAY (6mS~6S)

ENV II

CP1

+10.00 ±5mV

10mA

10μ

2.7Ω(1/2)

100Ω

+15V

60mA

2SD313E

47μ

10μ

56K

3.3K

3.3K

3.3K

IC7(1/2)

2.2K

1K

25V

220μ

Voltage ADJ.

500Ω

8.2K 1%

1.8K 1%

μPC141C

4 3 2 1

5 6 7 8

1.8V

10μ

220P

IC7(1/2)

2.2K

5.6K

10μ

45mA

-15V

2SB511D

1K

25V

220μ

1S2473VE

2SC536G

2SA564R

2SK44D

μPC1458C

(SPECIFIED OTHERWISE)

# SYNTHESIZER TYPE 100F

## VCO

## log⁻¹ Convert

( fo ∝ Io ∝ ℓn⁻¹ Vo)

## K.CV

## VCF

## VCA

## NOISE GEN.

## BACK PANEL

AUDIO INPUT

A.IN

NOISE ADJ.

AUDIO

NOISE

## P.C.B SYN-11

TSE155D

0.5A

22V

CT

22V

AC

POWER SWITCH

PILOT LIGHT

TUNE

DELAY VIB.

CUT OFF

LFO

ENV

ENV I

ENV II

TUNE ADJ.

EXP.

Filter ADJ.

PEAK

HPF

VOLUME

GAIN

EXP DINAMIC LANGE (34dB)

KYBD

EXPP

EXP. PEDAL

LOW OUT

HIGH OUT

# SYNTHESIZER TYPE 100F

KEYBOARD (37 Key C~C)

BACK PANEL — IN, UPPER OUT, LOWER OUT

VCO

SAMPLE and HOLD

PORTAMENTO

LFO FREQ (0.03~50Hz)

KEY SLOPE ADJ.

for Adjusting Resistor

log⁻¹ Convert ( fo ∝ Io ∝ Ein⁻¹ Vo )

K CV ADJ

RANGE SLOPE ADJ.

TUNE ADJ.

Filter ADJ

DELAY VIB

CUT OFF

LFO

ENV

ENV I

ENV II

NOISE GEN.

BACK PANEL — AUDIO INPUT, NOISE ADJ

VCF

VCA

HPF

VOLUME

GAIN

EXP DINAMIC LANGE (34dB)

P.C.B SYN-11

TSE155D

POWER SWITCH

PILOT LIGHT

ADSR

ATTACK (4mS~4.5S)

DECAY (6mS~6S)

SAME AS ABOVE

1S2473VE 2SC536G 2SA564R 2SK44D μPC1458C

(SPECIFIED OTHERWISE)

BACK PANEL — EXP PEDAL, LOW OUT, HIGH OUT