Notes:
1. All diodes 1N4148 or similar unless otherwise noted.
2. Designators Q38 and Q39 are duplicated on the PCB. The duplicates are in the hold circuit and renamed Q38* and Q39* on this schematic.
3. Wire colours may vary (manufacture or revision variation).
4. Q8 not designated on PCB.
5. Factory revisions (B) in dashed boxes.

Richard A. Halter		
Title: ACE TONE PS-1000 MAIN PCB EF-46		
Size: A2	Number: EF46_1	Revision: SEPT 2018
Date: 9-SEP 2018		Sheet 1 of 3
File: C:\PROTEL\SCHEME\C		Drawn By: RH

Richard A. Haller

Title	ACE TONE PS-1000 MAIN PCB EF-46		
Size A2	Number EF46_2		Revision SEPT 2018
Date: 9-SEP 2018		Sheet 2 of 3	
File: C:\PROTEL\SCHEME\C		Drawn By: RH	

OUTPUT
VOLUME
10k
CONTROL PANEL
SHIELDED CABLE
P16-1
P16-2
POWER SW
250vac
EARTH
CONNECTS TO 0V J6-2
IN JAPANESE VERSION
SEE VERSION NOTE
FUSE
500mA
250V FB
A
100 Vac
N
T1
15-0-15
J14-3
J14-2
J14-1
FX2
1A FB
FX1
1A FB
C41
4n7 125vac
DX2
T85 6.6
DX1
T85 6.6
DX3
T85 6.6
DX4
T85 6.6
CX2
220uF 35v
CX4
220uF 35v
CX1
47uF 25v
CX3
47uF 25v
RX83
470R
RX84
10k
C33
100pF
Q40
2SC1226A
Q41
2SC945
RX85
10k
Q42
2SC945
Q43
2SC945
RX86
1K
RX88
820R
D19
1S2452 6.3
RX90
15k
RX91
15k
C34
100pF
Q44/45
2SC1583
RX87
8k2
RX89
4k7
R161
1k
RX101
3k3
CX5
220uF 25v
+15
0V
RX94
4k7
Q48
2SA733
Q49
2SA733
C38
100pF
RX92
10k
RX93
470R
Q47
2SA733
RX95
10k
Q46
2SA699A
RX96
27k
RX97
10k
R170
5k
Q50/51
2SA798
100pF
C39
RX98
15k
RX99
15k
RX100
10k
CX6
220uF
25v
RX102
1k5
-15
J15-1
J15-2
PWR IND
5mm RED
CONTROL PANEL
POWER SUPPLY EF-46
* Japanese version only shown.
This version is supplied with a two prong AC MAINS plug.
International versions may have different grounding
schemes and/or regulations. Refer to qualified personnel.
EXTERNAL INPUTS
EXT.MOD
EXT.SIGNAL
P9-1
P9-2
P9-3
(D*)
(C)
(B)
(A)
1k
SUB TUNE
P15-2
+15
10k
P11-6
R6
1M
To CV Mixer
P15-3
-15
Note EXT.MOD,SIGNAL,R6 and connectors
also shown on EF-46/Fader schematics.
Richard A.Haller
Title
ACE TONE PS-1000 EF-46 PSU & POWER
Size
A2
Number
EF46_3
Revision
SEPT 2018
Date: 9-SEP 2018
Sheet 3 of 3
File: C:\PROTEL\SCHEME\C
Drawn By: RH

Notes.

1. Points marked with an asterix, e.g; (H*) are connected with hook-up wire on the PCB.

2. Ground traces A, H* and J* have seperate connections to the main PCB EF-46.

3. The wiper bar of VR18 is used to connect the upper ground track on the PCB. This track provides a guard between the VCO MIX and TRIG from S10, extending to near pin 11 of J4.

4. External inputs C and D* are the same signal, routed to the EXT inputs of the VCO and VCF. External input B is routed only to the Mixer.

Richard A.Haller		
Title: ACE TONE PS-1000 FADER PCB EF-47		
Size: A3	Number: PS_FADER	Revision: SEPT 2018
Date: 16-SEP 2018		Sheet 1 of 1
File: C:\PROTEL\SCHEME\C		Drawn By: RAH