REAR PANEL MOUNTED

XLR1

XLR2

JACK1

COAX2SYM

BLUE

RED

SCR

IC1
TL071

+18

-18

R54
9k76

VR2
1K
CMRR
TRIM

R61
22R

C34
10p

R50
27K/1W

D16
1N4148

D17
1N4148

GND

R43
330

TR21
BF423

R44
100R

R42
100R

TR18
1085

TR17
1085

R36
47K

R39
47k

BRIDGE
FEED IN

R56
1K

R57
9K1

R59
1K

R58
9K1

C31
220p

C30
220p

R60
10K

R55
1K

C29
10u 63V

R52
2K7

R53
82K

R51
330p

COAX2SYM

VOL1
20K LOG

C24
100u
25V

R40
22R

C21
100n

R32
150

R29
150

R28
47R

C16
10n

TR16
BF423

TR15
BF423

R31
10K

C19
100n

C22
33p

C17
33p

TR14
BF422

TR13
BF422

R45
2K7

R38
2K7

R34
27K/1W

TR11
BF422

TR12
BF422

R33
150R

R18
4K7/1W

C13
100n

C9
47u
100V

TR10
BF423

TR9
BF423

D14
9V1

R24
27K/1W

C18
100n

R22
2K7

TR6
BF422

R21
2k

VR1
1K
IQ
TRIM

D13
9V1

TR7
BF422

TR8
BF422

C5
47u
100V

C4
100n

R23
150R

R16
4K7/1W

Q2
2SA2238

D12
1N4148

D11
6v8

D10
6v8

D9
1N4148

Q3
2SA968

R17
330R

R15
330R

R GATES
1K

RED

ORANGE

PINK

BLACK

LABEL
+ RAIL

LABEL
N DRIVE

LABEL
FEEDBACK

LABEL
P DRIVE

LABEL
- RAIL

FRONT PANEL MOUNT

LED1
PEAK

ORANGE/BLACK

RED/BROWN

TR19
BF423

D15
1N4148

R37
2K7

R48
4K7/1W

R46
1K

C15
100n

TR20
BF422

R47
4K7

R26

C25
10u/63V

SMOOTHING AND
+-18V SUPPLY

LABEL
+18V

LABEL
-18V

D19
18V

D18
18V

C27
100u
35V

C28
100u
35V

C3
47u
100V

C2
47u
100V

C8
100n

C7
100n

R49
6K8/1W

R62
6K8/1W

GND

LABEL
+ RAIL

LABEL
- RAIL

LABEL
FEEDBACK

LABEL
- RAIL

LABEL
N DRIVE

ORANGE

LABEL
+ RAIL

RED

RG1

RG2

RG3

RG4

RG5

RG6

RG7

RG8

RG9

RG10

RG11

RG12

MOSN1

MOSN2

MOSN3

MOSN4

MOSN5

MOSN6

MOSP1

MOSP2

MOSP3

MOSP4

MOSP5

MOSP6

BLACK

LABEL
P DRIVE

PINK

D F1
1N4004

D F2
1N4004

GREEN

LABEL
GROUND

C1
33n

R11
10R/2.5W

10R
RCHOKE

CHOKE1

LABEL
OUTPUT

YELLOW

MODEL	R41	R26	IQ
SR404	1K2	220K	150mA
SR606	1K2	280K	150mA
SR707	1K	280K	150mA

RG1 TO RG12 = 560R

MOUNTED ON HEATSINK

DIAGRAM SHOWS SR404 OUTPUT STAGE. SR606 AND SR707 OUTPUT STAGES DIFFER IN THE NUMBER OF OUTPUT DEVICES PER RAIL. THE SR606 AND SR707 USE 8 DEVICES PER RAIL. ADDITIONAL DEVICES ARE CONFIGURED SIMILARLY WITH 560R GATE RESISTORS AS SHOWN.

Title	SR DRIVER A		
Size	Number		Revision
A2	SRDRVR1		2
Date:	1-Jul-1999	Sheet of	3 3
File:	D:\PROTEL\SR\SRDRVRA.SCH	Drawn By:	L BASHAM

REAR PANEL MOUNTED

JACK1

XLR1

XLR2

COAX2SYM

BLUE

RED

SCR

R56 1K

R57 9K1

R59 1K

R58 9K1

C31 220p

C30 220p

R60 10K

IC1 TL071

+18

-18

R54 10K

VR2 1K

CMRR TRIM

C34 10p

R61 22R

R55 1K

COAX2SYM

VOL1 20K LOG

C29 10u 63V

R52 2K7

R53 82K

R51 330p

D16 1N4148

D17 1N4148

R50 24K/.5W

GND

R43 330

TR21 BF423

R44 100R

R42 100R

TR18 1085

TR17 1085

R36 47K

R39 47K

LABEL BRIDGE RED

C24 100u 25V

R40 22R

C21 100n

R32 150

R29 150

R28 47R

C16 10n

TR16 BF423

TR15 BF423

R31 10K

C19 100n

C22 33p

C17 33p

TR14 BF422

TR13 BF422

R45 2K7

R38 2K7

R34 22K

TR11 BF422

TR12 BF422

R33 150R

R18 4K7/1W

C13 100n

C9 47u 100V

TR10 BF423

TR9 BF423

D14 9V1

R14 24K .5W

R22 2K7

TR6 BF422

R21 1K5

VR1 1K

IQ TRIM

C18 100n

D13 9V1

TR7 BF422

TR8 BF422

C5 47u 100V

C4 100n

R23 150R

R16 4K7/1W

RED

LABEL + RAIL

Q2 2SA2238

ORANGE

LABEL N DRIVE

D12 1N4148

D11 9V1

D10 9V1

D9 1N4148

R17 330R

R15 330R

R GATES 1K

LABEL FEEDBACK

PINK

LABEL P DRIVE

Q3 2SA968

BLACK

LABEL - RAIL

BRIDGE SWITCH
REAR PANEL MOUNTED

LED5
FRONT PANEL

RED

R LED 12K/1W

RED/BLUE LABEL + RAIL

4

RED

COAX2SYM

GND

LABEL CHAN A OUTPUT

FRONT PANEL MOUNT

LED1 PEAK

ORANGE/RED

RED/BLACK

D15 1N4148

R37 2K7

TR19 BF423

R48 4K7/1W

R46 1K

C15 100n

TR20 BF422

R47 4K7

R26 *

C25 10u/63V

SMOOTHING AND
+-18V SUPPLY

LABEL +18V

R49 6K8/1W

LABEL + RAIL

D19 18V

C27 100u 35V

C3 47u 100V

C8 100n

GND

D18 18V

C28 100u 35V

C2 47u 100V

C7 100n

LABEL -18V

R62 6K8/1W

LABEL - RAIL

LABEL FEEDBACK

LABEL - RAIL

LABEL N DRIVE

ORANGE

LABEL + RAIL

RED

RG1 MOSN2 RG2 MOSN3 RG3 MOSN4 RG4 MOSN5 RG5 MOSN6 RG6 MOSN7

D F1 1N4004

MOSP2 MOSP3 MOSP4 MOSP5 MOSP6 MOSP7

D F2 1N4004

RG7 RG8 RG9 RG10 RG11 RG12

BLACK

LABEL P DRIVE

PINK

MOUNTED ON HEATSINK

GREEN

LABEL GROUND

C1 33n

R11 10R/2.5W

10R RCHOKE

CHOKE1

YELLOW

LABEL OUTPUT

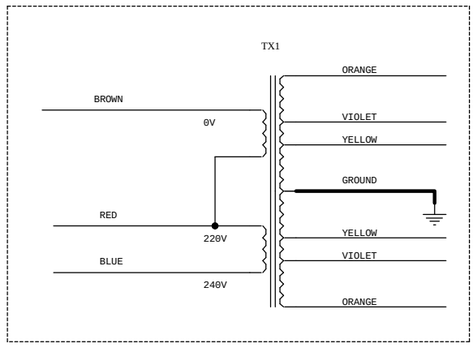
MODEL	R41	R26	IQ
SR404	1K2	220K	150mA
SR606	1K2	280K	150mA
SR707	1K	280K	150mA

DIAGRAM SHOWS SR404 OUTPUT STAGE. SR606 AND SR707 OUTPUT STAGES DIFFER IN THE NUMBER OF OUTPUT DEVICES PER RAIL. THE SR606 AND SR707 USE 8 DEVICES PER RAIL. ADDITIONAL DEVICES ARE CONFIGURED SIMILARLY WITH 560R GATE RESISTORS AS SHOWN.

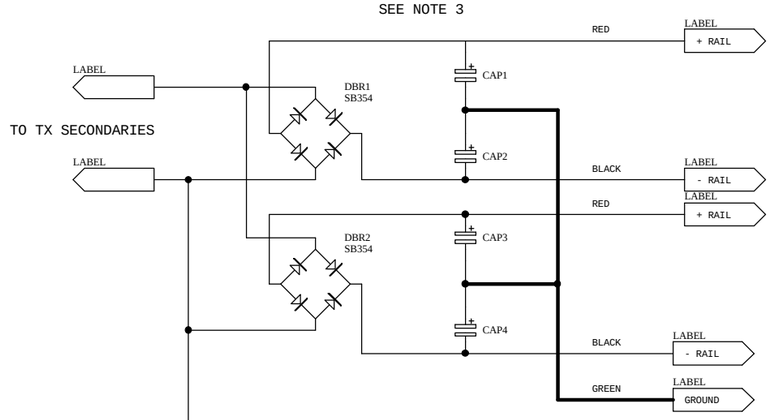
Title	SR DRIVER B	
Size: A2	Number: SRDRVR2	Revision: 2
Date: 1-Jul-1999	Sheet of 3 3	
File: D:\PROTEL\SR\SRDRVRB.SCH	Drawn By: L BASHAM	

TRANSFORMER SECONDARY TAPPINGS
AND VOLTAGES AC (RMS) OFF LOAD

SR404	YELLOW	53V
SR606	VIOLET	64V
SR707	ORANGE	72V



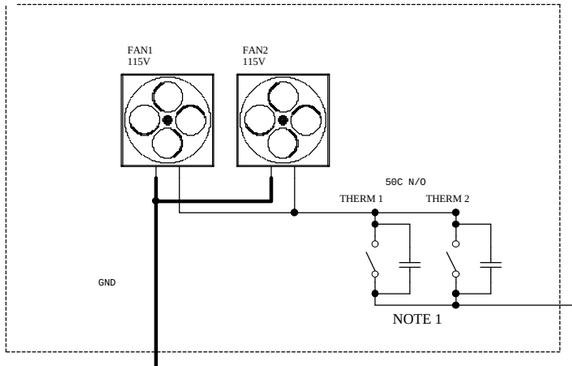
FOR CAPACITOR VALUES
SEE NOTE 3



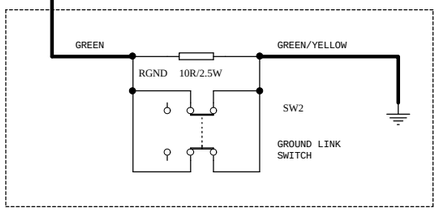
DC RAIL VOLTAGES	
SR404	+-75V
SR606	+-90V
SR707	+-100V

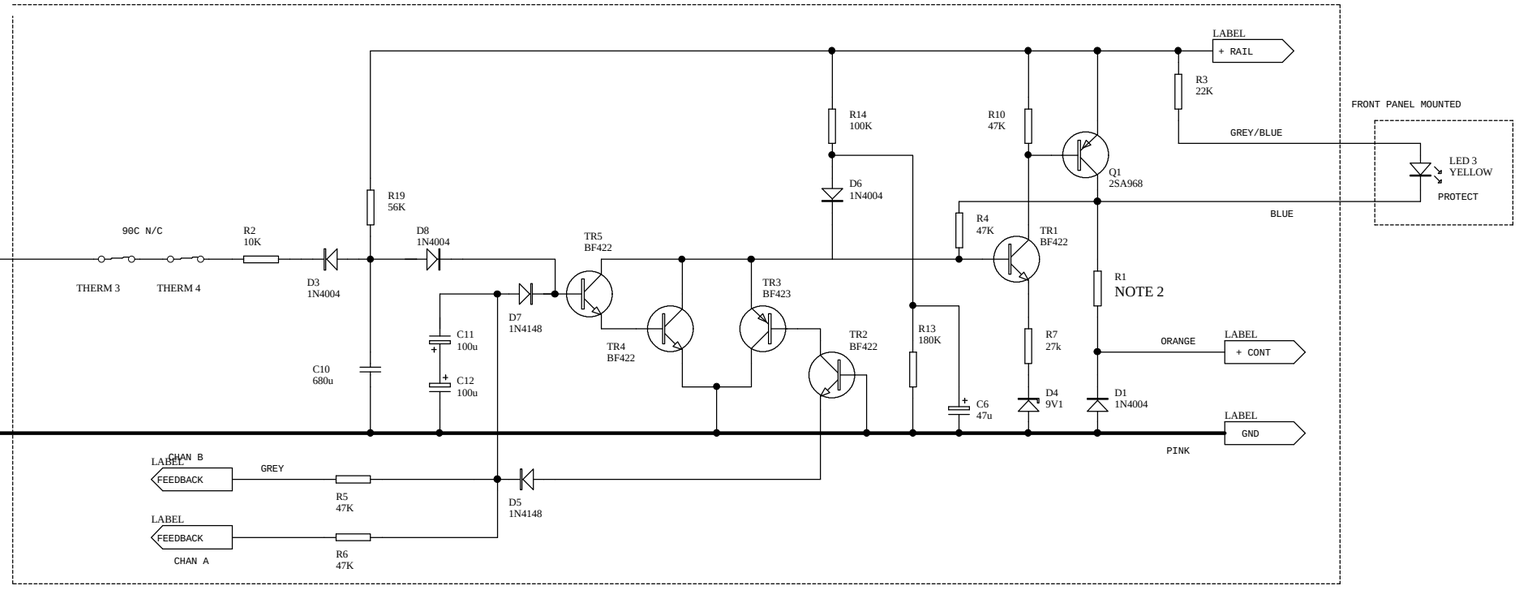
	NOTE 1	NOTE 2	NOTE 3
	CAPACITOR VALUE	RESISTOR VALUE	CAPACITOR VALUE
SR404	1.47uF	LINK	12000uF
SR606	1uF	220R/1W	19000uF
SR707	1uF	470R/1W	19000uF

POWER SUPPLY



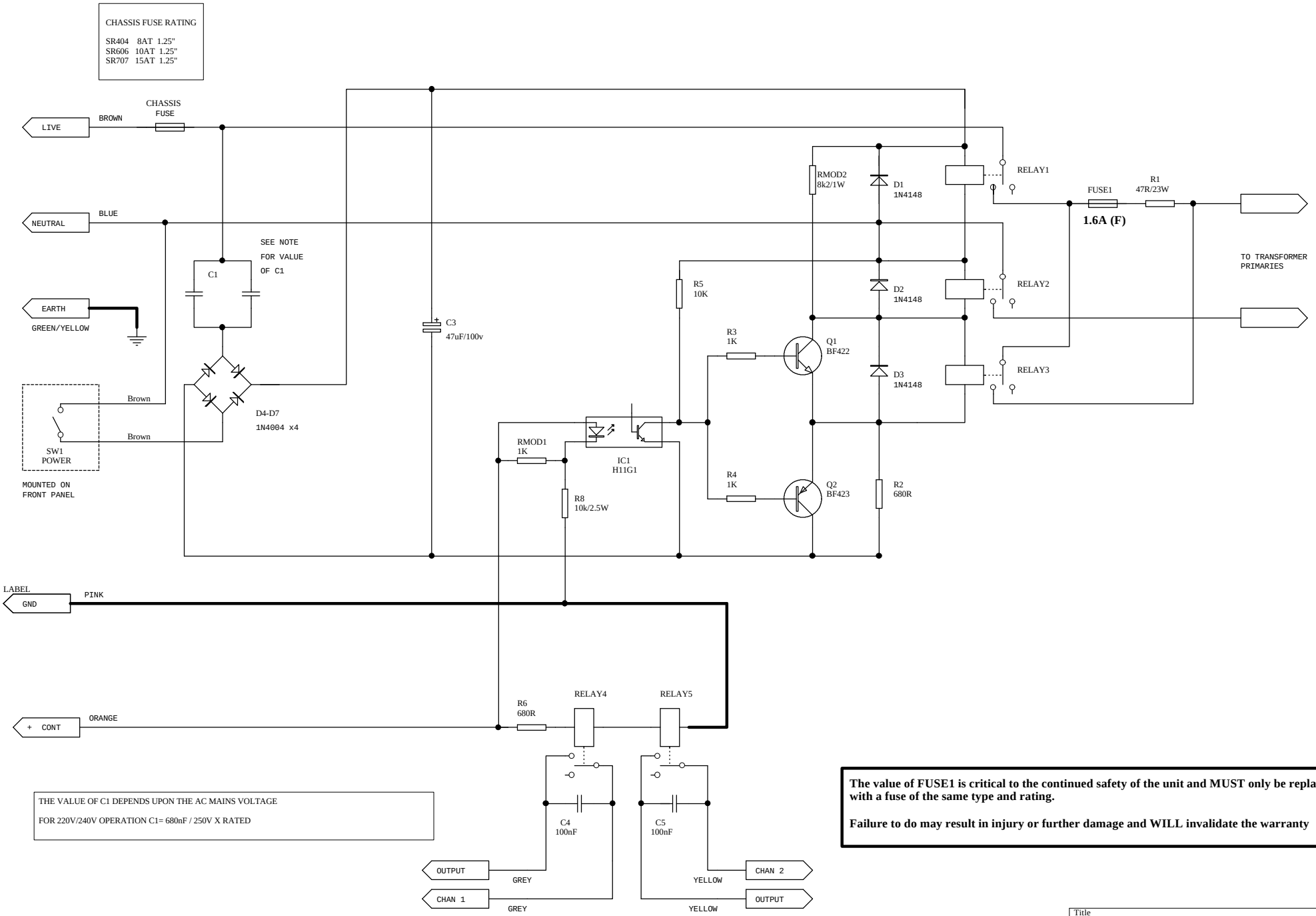
TWO SPEED FAN
COOLING





DC, HF AND OVERTEMP
PROTECTION

Title	SR POWER/PROTECT/FAN		
Size	Number		Revision
A2	SRPWR1		2
Date:	1-Jul-1999	Sheet of	2 3
File:	D:\PROTEL\SR\SRPWR.SCH	Drawn By:	L BASHAM



Title: C-AUDIO SR SOFT START		
Size: A3	Number: CA-PCBA002	Revision: 2
Date: 1-Jul-1999	Sheet of 1 1	