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 9k76

VR2 1K

CMRR TRIM

C34 10p

R61 22R

R55 1K

C29 10u 63V

R52 2K7

R53 82K

R51 330p

COAX2SYM

VOL1 20K LOG

D16 1N4148

D17 1N4148

GND

R50 27K/1W

R43 330

TR21 BF423

R44 100R

R42 100R

TR18 1085

TR17 1085

R36 47K

R39 47k

BRIDGE FEED IN

R*

C24 100u 25V

R40 22R

C21 100n

R45 2K7

R38 2K7

R32 150

R29 150

R28 47R

C16 10n

TR16 BF423

TR15 BF423

R31 10K

C19 100n

C22 33p

C17 33p

TR14 BF422

TR13 BF422

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

R17 330R

R15 330R

R GATES 1K

Q3 2SA968

RED

LABEL + RAIL

ORANGE

LABEL N DRIVE

LABEL FEEDBACK

PINK

LABEL P DRIVE

BLACK

LABEL - RAIL

FRONT PANEL MOUNT

LED1 PEAK

ORANGE/BLACK

RED/BROWN

D15 1N4148

TR19 BF423

R37 2K7

R48 4K7/1W

R46 1K

TR20 BF422

R47 4K7

C15 100n

R26 *

C25 10u/63V

SMOOTHING AND +-18V SUPPLY

LABEL +18V

LABEL + RAIL

R49 6K8/1W

D19 18V

C27 100u 35V

C3 47u 100V

C8 100n

GND

D18 18V

C28 100u 35V

C2 47u 100V

C7 100n

LABEL -18V

LABEL - RAIL

R62 6K8/1W

LABEL FEEDBACK

LABEL - RAIL

LABEL N DRIVE

ORANGE

LABEL + RAIL

RED

RG1

MOSN1

RG2

MOSN2

RG3

MOSN3

RG4

MOSN4

RG5

MOSN5

RG6

MOSN6

D F1 1N4004

MOSP1

MOSP2

MOSP3

MOSP4

MOSP5

MOSP6

D F2 1N4004

RG7

RG8

RG9

RG10

RG11

RG12

BLACK

LABEL P DRIVE

PINK

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

XLR1

XLR2

JACK1

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

R34 22K

TR11 BF422

R45 2K7

R38 2K7

TR12 BF422

R33 150R

R18 4K7/1W

C13 100n

C9 47u 100V

TR10 BF423

TR9 BF423

D14 9V1

R22 2K7

TR6 BF422

R14 24K .5W

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

LABEL -18V

R49 6K8/1W

R62 6K8/1W

D19 18V

D18 18V

C27 100u 35V

C28 100u 35V

C3 47u 100V

C2 47u 100V

C8 100n

C7 100n

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

MOSN2 MOSN3 MOSN4 MOSN5 MOSN6 MOSN7

MOSP2 MOSP3 MOSP4 MOSP5 MOSP6 MOSP7

D F1 1N4004

D F2 1N4004

BLACK

LABEL P DRIVE

PINK

MOUNTED ON HEATSINK

GREEN

LABEL GROUND

C1 33n

R11 10R/2.5W

10R RCHOKE

CHOKE1

YELLOW

LABEL OUTPUT

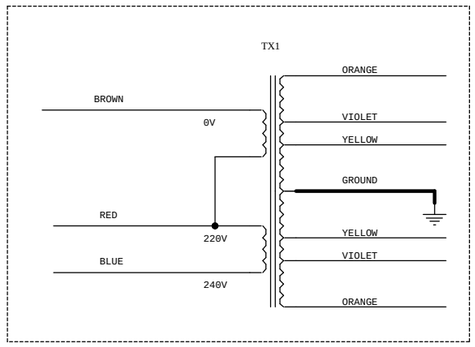
| MODEL | R41 | R26 | IQ |
|---|---|---|---|
| SR404 | 1K2 | 220K | 150mA |
| SR606 | 1K2 | 280K | 150mA |
| SR707 | 1K | 280K | 150mA |

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.

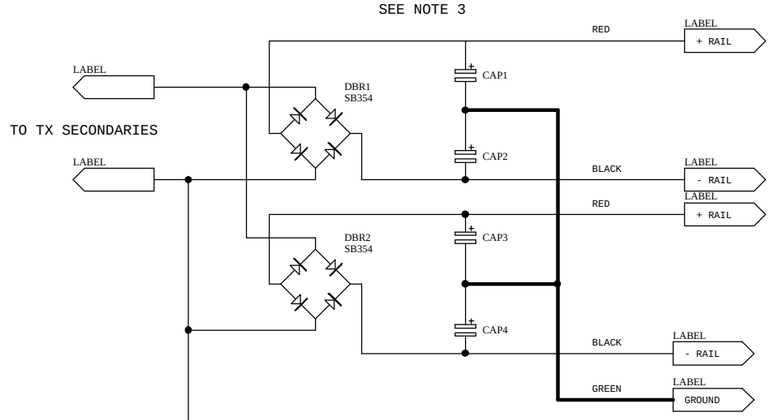
| | | | |
|---|---|---|---|
| Title | SR DRIVER B | | |
| Size | Number | | Revision |
| A2 | SRDRVR2 | | 2 |
| Date: | 1-Jul-1999 | Sheet of | 3 3 |
| File: | D:\PROTEL\SR\SRDRVRB.SCH | Drawn By: | L BASHAM |

TRANSFORMER SECONDARY TAPPINGS
AND VOLTAGES AC (RMS ) OFF LOAD

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




FOR CAPACITOR VALUES
SEE NOTE 3

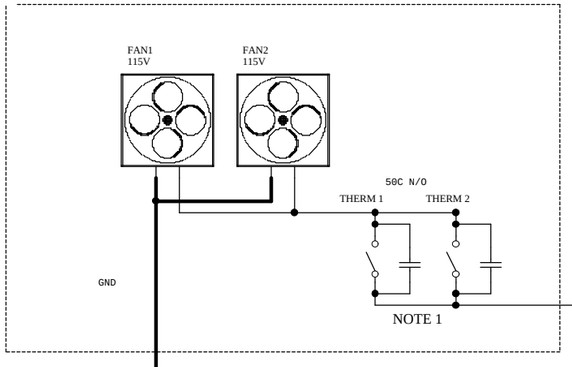



| | NOTE 1 | NOTE 2 | NOTE 3 |
|---|---|---|---|
| | CAPACITOR VALUE | RESISTOR VALUE | CAPACITOR VALUE |
| SR404 | 1.47uF | LINK | 12000uF |
| SR606 | 1uF | 220R/1W | 19000uF |
| SR707 | 1uF | 470R/1W | 19000uF |

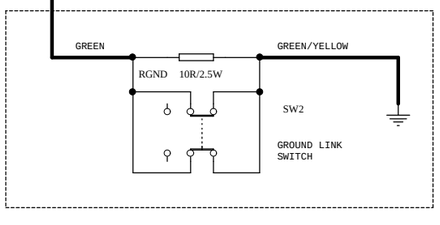
DC RAIL VOLTAGES

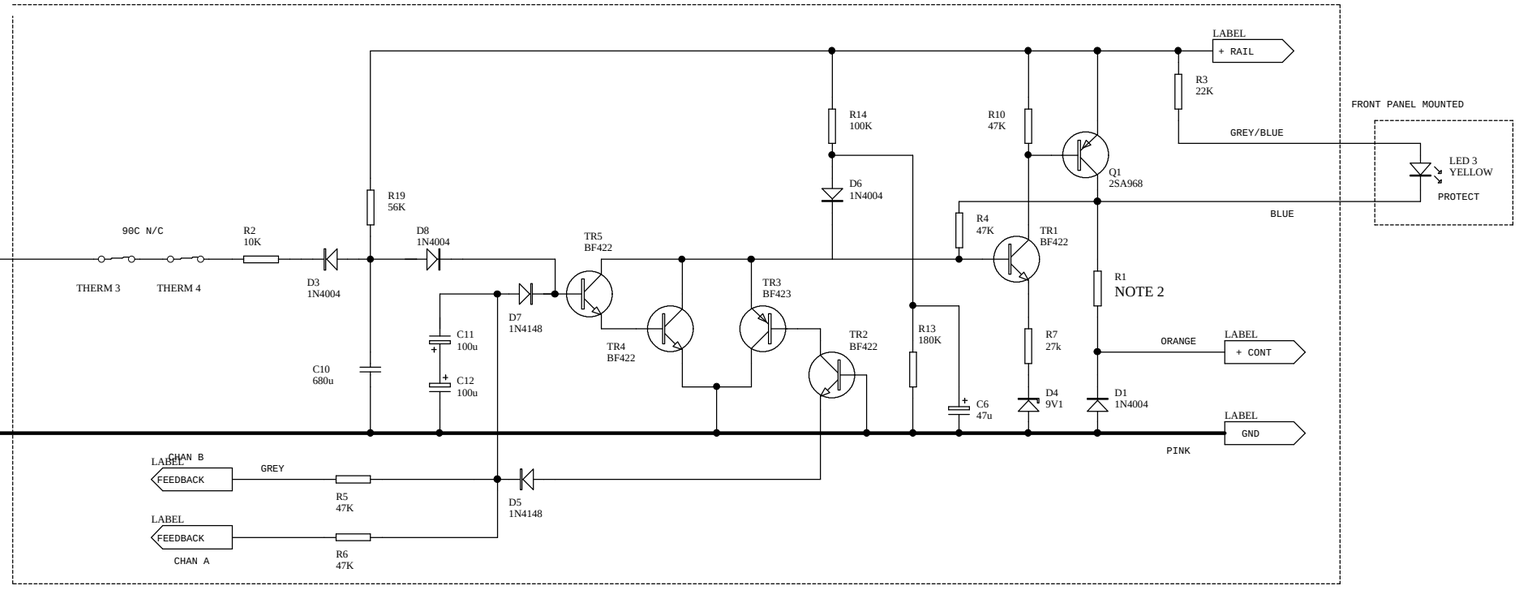
| | |
|---|---|
| SR404 | +-75V |
| SR606 | +-90V |
| SR707 | +-100V |

POWER SUPPLY



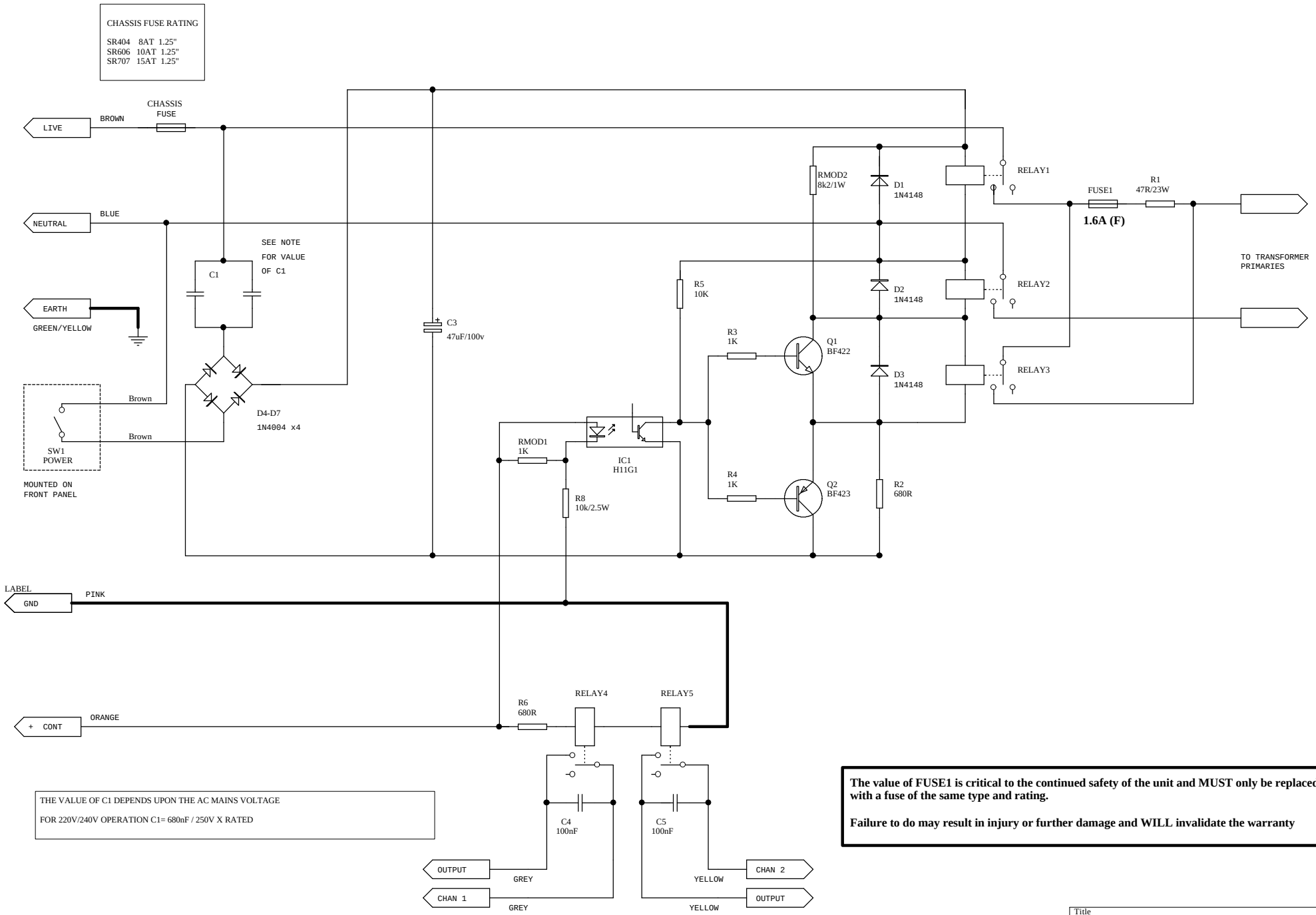

TWO SPEED FAN
COOLING




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 | |