REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

INPUT
ACTIVE
PASSIVE
J2 JACK1/4MONO
J1 JACK1/4MONO
R3 100K
R2 22.1k
C3 .1uF 100V PE
C1 .001uF 100V
C5 330pF 100V
C6 100pF 100V
R1 1.00M
C2 100pF 100V
D2 1N759A 12V
D1 1N759A 12V
C4 10uF 50V
R4 2.21k
R5 22.1k
U1-A TL072
C7 10uF 50V
PRE
VOLUME
50KA R8
C8 .0047uF 100V
R9 86.2K
R6 10.0K
U1-B TL072
R7 10.0K
C9 10uF 50V
AGND

CONTOUR
C11 .0047uF 100V PE
C10 .0047uF 100V PE
R11 121K
R10 12.1K
R12 33.2K
R15 221K
C15 560PF 100V
U2-A TL072
C13 10uF 50V
R13 100K
S1 DPDT-PUSH

HI-MID
C19 .0022uF 100V PE
R26 47.5K
R27 50KB
C18 .0022uF 100V PE
R25 1.00M
R29 12.1K
R23 12.1K
R24 475K
R21 100K
U2-B TL072
C17 10uF 50V

LOW-MID
C21 .01uF 100V PE
R32 47.5K
R33 50KB
C22 .01uF 100V PE
R28 12.1K
R30 475K
C20 47pF 100V
R34 12.1K
R31 4.75K
U3-A TL072

BASS
C26 .1uF 100V PE
R36 22.1k
R41 50KB
R35 5.62K
R40 47.5K
R38 5.62K
R16 10.0K
C16 .0022uF 100V PE
U3-B TL072
R18 750
50KB R17
TREBLE

R43 0.0
AGND PGND

To P103 Power Amp
J5-1 Vd aux
J5-2 PGND
J5-3 Vs aux
R37 10.0 1/4W
R39 10.0 1/4W
U5 LM78M15
U4 LM79M15
C24 0.1uF 50V
C25 0.1uF 50V
C28 100uF
C23 100uF
+AUX +15V PGND -15V -AUX

To Power Outlet and P100 PowerAmp
POWER
J16-1 J16-2 S4

To P104 Power Amp
+ OUT (CH2) J8-1
– OUT (CH1) J8-2

LIMITER ON/OFF
S2 DPDT-PUSH
R61 3.32K
R62 10.0M
+15V D4 1N4148 D6 1N4148 D5 1N4148 D3 1N4148 -15V
V1

Mix/Mp3 Input
J9 TIP S-TIP S-RING RING SHIELD
R63 100K
R64 100K
C36 .001uF 100V
C37 .001uF 100V
C34 .22uF 100V
AGND

Headphones
J12 RING TIP
R65 220 2W
C38 .001uF 100V
K1-A K1-B
+15V

To P102 Power Amp
J7-1 ENABLE
J7-2 OC THERMAL
J7-4 IN CH2
J7-5 GND
J7-6 IN CH1
ENABLE/ERROR
R54 47.5K
TL072 U7-A
R55 47.5K
R44 10.0K
R46 10.0K
TL072 U6-A
D4A 1N747A 3.6V
D4B 1N747A 3.6V
AGND

MASTER
C33 1uF
C31A 10pF
R53 200K
R51 100K
2KB R56
TL072 U6-B
AGND

+15V
R52 1.00K
R45 15.0K
C29 .47uF 100V PE
C32 470uF 25V
C30 47pF 100V
Q2 J113
50KB R48
BOOST
R50 5.62K
C31 100uF 25V
R47 47.5K
R49 3.92K
-15V

R42 4.75K
C27 10uF 50V

TO WOOFER + J10-1 – J10-2

HORN ON/OFF
S3 DPDT-PUSH
C35 .39S

TO HORN + J13-1 – J13-2

+15V J15-3 J17-3 +15V
RED J15-2 J17-2
BLUE J15-1 J17-1
ENABLE/ERROR
D7 7.5V
R72 200
R70 1.00K
D9 1N4148
R74 1.00M
D8 1N751
R71 10.0M
C41 10uF
R73 1.00M
Q4 J113
R66 100K
R68 39.2K
Q3 MPSA06
PGND
D13 RED D12 BLUE D11 RED D10 BLUE

PRE
R57 10.0K
R58 1.00K
R59 12.1K
TLO72 U7-B
C39 10uF 50V
C43 10uF 50V
R60 12.1K
R67 1.00K
R69 100K
R76 1.00K
R75 100K
C40 .0047uF 100V
C44 .0047uF 100V
J14 Direct Out
C42 .047uF

MH.125/220 X1
MH.125NP X2
MH.125NP X3

GSD J113 BOTTOM VIEW
A C LED SIDE VIEW

NOT VALID UNLESS STAMP IS RED

A4: ALL POTS WITH NO BRACKET
A6: NEW LIMITER
A7: ADDED C31A,D4A,D4B
A7: R9,R72 CHANGED

gallien technology
2234 INDUSTRIAL DRIVE
STOCKTON CA. 95206
VOICE: 209-234-7300
FAX: 209-234-8420

APPROVALS		
	INIT	DATE
DESIGNED:	R.A.G.	03/09/09
DRAWN:	D.O.	03/09/09
ELEC:		
DATE MODIFIED		6/24/09
Q/A:		
RELEASED:		

TITLE: MB 115 PREAMP
SIZE: B
DRAWING NO: 1206-0520-A7
REV: A7
PART NO: 206-0520-A7
COMPANY: GALLIEN-KRUEGER
FILENAME: 6520A7.SCH

6520A7.sch1 - Wed Sep 30 12:13:39 2009