AUDIO AMP SCHEMATIC

321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340

A B C D E F G H I J K L

ALL INTEGRATED CIRCUITS AND MANY OTHER SEMICONDUCTORS ARE ELECTROSTATICALLY SENSITIVE AND REQUIRE SPECIAL HANDLING TECHNIQUES DESCRIBED UNDER "ELECTROSTATICALLY SENSITIVE (ES) DEVICES" IN THE SAFETY AND SERVICING PRECAUTIONS PUBLICATION.

PRODUCT SAFETY NOTE

COMPONENTS WITH A ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY. BEFORE REPLACING ANY OF THESE COMPONENTS READ CAREFULLY THE PRODUCT SAFETY NOTICE IN THIS SERVICE DATA. DO NOT DEGRADE THE SAFETY OF THE SET THROUGH IMPROPER SERVICING.

SCHEMATIC NOTES
1. RESISTANCE VALUES ARE IN OHMS; K=X1000, Meg=X1,000,000.
   RESISTORS ARE 1/4W 5%, EXCEPT WHERE INDICATED.
   [ ] INDICATES FLAT MAXI-CHIP COMPONENT, 1/8W EXCEPT WHERE INDICATED.
   / \ INDICATES FLAT MINI-CHIP COMPONENT, 1/16W EXCEPT WHERE INDICATED.
2. CAPACITANCE VALUES 1.0 AND ABOVE ARE IN µF, VALUES BELOW 1.0 ARE IN pF EXCEPT WHERE INDICATED. VOLTAGE RATING IS 50V EXCEPT WHERE INDICATED.
   [ ] INDICATES FLAT MAXI-CHIP COMPONENT.
   / \ INDICATES FLAT MINI-CHIP COMPONENT.
3. ⏚ DENOTES CHASSIS GROUND. ⊗ INDICATES CONNECTION VIA POINT-TO-POINT WIRE.
   —INDICATES JUMPER WIRE.
   —INDICATES ZERO OHM CHIP COMPONENT.

J11903 FROM J24603

T11901

FB11906 ALT L11903 350NOH

FB11907 ALT L11904 350NOH

C11924 1MI 35.0V
C11925 1N0
C11926 1MI 35.0V
C11927 1N0
C11928 120u0 50.0V PG
C11929 120u0 50.0V PG

+21VaA SOURCE
+VCCA SOURCE
AUD_RET
TO AUD_RET
-VCCA SOURCE
-21VaA SOURCE

U11460

R11462 150K0
R11460 1K0
R11465 1K0
R11461 22K0
R11466 22K0
C11462 2u2 100.0V
R11470 47R0 250MIOW
C11463 47N0 50.0V
C11464 10u0 63.0V
+12VrIOA <223-E>

C11460 2u2 100.0V
C11461 2u2 100.0V
R11456 470R0
R11458 470R0
R11457 10K0 −1.8V
R11459 10K0 −1.8V
Q11460
Q11461
R11463 10K0
R11468 10K0
R11464 1K0 500MIOW
R11469 1K0 500MIOW
SG11460
SG11461
PART OF J11460
HI FI RIGHT OUT
HI FI LEFT OUT

R11467 150K0

R11975 22K0
C11975 10u0 16.0V
CR11975
CR11976
CR11977
R11976 22K0
R11977 22K0
Q11975
R11978 10K0
+21VaA <327-A>
Q11978
R11979 10K0
Q11976
R11987 47K0
R11988 10K0
Q11979
R11989 4K7
+12VrIOA <223-E>
Q11980
CR11979
+12VrIOA <223-E>

R11982 22K0
C11976 10u0 16.0V
CR11978
R11983 100K0
R11984 22K0
Q11977
R11985 10K0
R11986 22K0
−21VaA <327-B>

CR11950
CR11951
R11950 1K0
R11951 1K0
R11952 10K0
C11950 10u0 63.0V
Q11950
R11953 10K0
R11954 22K0
Q11952
R11957 22K0
R11958 39K2 1%
R11959 10K0
AVR
TO AVR

Q11951
R11960 10K0
R11961 12K1 1%
CR11952 5.1V
C11951 10N0
R11956 5K11
R11955 10K0

U11901 CLASS D PA

20.5V +VCC_CH1
+VCCA <327-A>
R11905 130K0 −19.1V
C11909 100N0 63.0V
−VCCA <327-B>
14 CURREF
2.6V OSC
C11911 24P0
R11906 10K0
9.1V BOOT1
C11912 33N0
0V OUT1
FB1_1
−0.1V FB2_1
C11914 470P0
R11909 68K0
13 GND
9.2V BOOT2
C11915 33N0
0V OUT2
FB1_2
0.1V FB2_2
C11917 470P0
R11912 68K0
−9.8V VREG
R11924 6R8
C11918 100N0 16.0V
22 20.5V +VCC_CH2
C11910 100N0 63.0V
+VCCA <327-A>
−VCCA <327-B>

A001
A002
A003
A004

FROM PA_L
FROM PA_R
R11901 100R0
R11902 100R0
C11901 330N0 25.0V
C11902 1N0
C11903 330N0 25.0V
C11904 1N0
C11905 330P0
R11903 22K0
C11906 330P0
R11904 22K0
JC11905
C11907 100N0 16.0V
C11908 100N0 16.0V
C11923 2u2 100.0V
R11907 51K0
R11908 4K7
C11913 470P0
C11919 560P0
R11913 100R0 500MIOW
R11931 100R0 500MIOW
JC11901
JC11902
FB11908
L11901 33u0H
C11920 220N0 63.0V PG
C11930 1N0
R11925 1K0 250MIOW
FB11901
R11910 51K0
R11911 4K7
C11916 470P0
C11921 560P0
R11914 100R0 500MIOW
R11932 100R0 500MIOW
JC11903
JC11904
FB11909
L11902 33u0H
C11922 220N0 63.0V PG
C11931 1N0
R11926 1K0 250MIOW
FB11902
−VCCA <327-B>

1 −VCC
2 −VCC_CH1
24 −VCC_CH2
4 +VCC_CH1
6 MODE
5.3V +5V
16 −5V
18 IN2
10 IN1
20 NC
11 TR1
15 TR2

FROM FAST_MUTE
R11921 22K0 −1.8V
Q11903
R11922 1K0
R11920 10K0
R11918 10K0
Q11902
R11919 10K0
FROM PA_MUTE
Q11901
R11916 220K0
R11917 10K0 ALT
+21VaA <327-A>
+12VrIOA <223-E>
R11915 100K0
+5V_BUS <229-A>

K11901
+12Vr <XX-X>
JW11901
JW11902
JW11903
JW11904
CR11901
CR11902
CR11903
SG11903
SG11902
SG11901
J11905
LEFT SPKR
RIGHT SPKR
SPEAKER CLIP
BLK
RED
A004
FAV_SPKR_MUTE
TO FAV_SPKR_MUTE
J11901
LEFT SPKR
LEFT GND
J11902
RIGHT GND
RIGHT SPKR
SW11902
SW11901
M2 M1

R11949 100R0
10.4V
Q11949
R11946 100K0
0.6V
Q11948
R11947 15K0
R11948 47K0
+21VaA <327-A>
R11943 10K0
CR11949
R11944 10K0
R11945 100K0
C11949 4u 35.0V
+21VaA <327-A>

R11927 68R0 2.0W
R11928 68R0 2.0W
FB11903
AUD_RET
FROM AUD_RET

CENTER SPEAKER VERSION SW11902 & J11906 LOADED
JW11901, JW11902, JW11903 & JW11904 NOT LOADED
OPPOSITE FOR NON-CENTER SPEAKER VERSION

J11906
BLK
BLU
CENTER SPEAKER
SPEAKER CLIP
FB11905
SG11905
R11930 100K0 250MIOW
FB11904
SG11904
R11929 100K0 250MIOW

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