10-2 A01 715G4546 PSU 37", 42" and 47"

Power

A01 Power

A01

HOT COLD

HOT COLD

HOT COLD

FB901 BEAD
BD901 KBJ608G
C941 470pF/250V_NC
FB904 BEAD
FB906 BEAD
C906 470pF/250V
C905 470pF/250V
16mH
SG904 GS41-201MA
SG905 GS41-201MA_NC
L902
C901 470pF/250V_NC
C902 470pF/250V_NC
C909 0.68uF
L901
SG901 GS41-201MA_NC
SG902 GS41-201MA
16mH
R901 1M3
IC906 NC NC D1 D2 D1 D2 NC NC
R902 1MOHM +-5% 1/2W_NC
R903 1MOHM +-5% 1/2W_NC
CAP004DG_NC
C908 0.68uF
RV901 TVR14561KFC4FY
TH902 NTCR
FB902 BEAD
FB903 BEAD
F901 T5.0AH 250V
CN901 SOCKET
C911 1UF 520V
L903 350uH
STTH5L06FP D901
FB905 60R
C924 1500PF 1KV
R911 18.7K 1/8W 1%
R909 1M 1/4W 1%
R908 1M 1/4W 1%
R907 1M 1/4W 1%
C913 470P 50V
C920 1U 25V
R918 47K +-5% 1/8W
HQ902
C916 10N 50V
IC902 INV VCC COMP GATE MOT GND CS ZCD
FAN6961SZ
C912 1U 25V
R913 10K OHM +-5% 1/8W
C939 1U 50V_NC
R934 39K +-5% 1/8W
C955 220P 50V
R950 1K 1/4W
R917 47OHM +-5% 1/8W
R916 4R7 +-5% 1/8W
D910 1N4148
R929 47K +-5% 1/8W
FMV11N60ES Q902
C928 220PF 1KV_NC
R919 0.33 OHM +-5% 3WS
395V
C907 120uF/450V
R923 82K OHM 1W
C921 0.0022uF/500V
D902 FR107
T901
POWER XFMR
C931 270PF
D922 HER303G-18
R936 100 OHM 1/4W
R935 100 OHM 1/4W
L921 0.8uH
C933 470UF 35V
24V
C938 47UF 50V
C961 100N 50V
R940 15 OHM 1/4W
C934 270PF
R942 100 OHM 1/4W
R943 100 OHM 1/4W
ZD906 P6KE13A
L922 0.8uH
D921 MBRF10100CT
C932 1000uF/16V
C937 47UF 50V
C960 100N 50V
12V
HD918
NC
C903 0.001uF/250V
R961 100 OHM 1/4W
HQ901
Q901
C904 470pF/250V
C932 150PF 1KV
R924 0R75
Q905 BC857C
1K OHM +-5% 1/8W
R960
ZD905 BZX79-B18
R912 5K1 +-5% 1/8W
C929 330P 50V_NC
D923 BAV21
C919 22uF 50V
C927 270PF_NC
R939 1.5K 1/4W
330N 50V
R932 4K7 +-5% 1/8W
C925 10N 50V
C954 470P 50V
Skip/latch HV FB VCC CS DRV GND
IC901 NCP1271D65R2G
R915 130 OHM
D913 1N4148
R927 10R 1/8W 5%
TO-220FP
R928 47K +-5% 1/8W
R930 1K 1/4W
C918 220P 50V
Vdd-S
C922 2U2 50V
R947 4.7R
Q907 BC857C
R925 5K1 +-5% 1/8W
R926 10K OHM +-5% 1/8W
C914 10N 50V
C915 1U 25V
C923 10N 50V
IC903 EL817MA
R963 4K7 +-5% 1/8W
R937 1K OHM +-5% 1/8W
R958 240R 1/8W 5%
R949 10K 1/8W 1%
C935 22N 50V
R938 1K5 1/8W 5%
ZD925 MTZJ T-72
IC921 KIA431A-AT/P
R941 2K61 1/8W 1%
EL817MA IC904
R944 1K OHM +-5% 1/8W
Q909 RK7002FD5T116
C926 10nF
C945 0.0022uF/500V
ZD914 P6KE160A
D915 FR107
T904 PT-009601-3
FB907 BF-L25030W-768
C949 0.001uF/500V
D917 SRF1060
HD917
C950 1000uF 16V
C953 1000uF 16V
L907 0.8uH
R945 4K7 1/6W 5%
R964 330K 1/8W 5%
C930 10N 50V
S/B
+5VSB
C951 470uF/16V
C940 100N 50V
CN903
ENA
DIM
12V
24V S/B
+5VSB
POK
HARNESS 14P
R959 4R7 1/4W 5%
D916 RGP10D-E3-23
R951 47OHM +-5% 1/8W
ZD908 BZX79-B18
C946 47UF 50V
ZD912 BZX79-C9V1_NC
IC905 S S S S S S D NC F C X V
TOP264VG
R922 82K +-5% 1/8W
R965 2M2 1/6W 5%_NC
C947 100P 50V
R931 10K 1/8W 1%
ZD907 BZX79-C9V1
C948 100N 50V
R962 10R 1/4W 5%
R920 6.8 OHM
C943 22uF 50V
IC907 EL817MA
R953 100R 1/8W 5%
R921 3K3 1/8W 5%_NC
R955 1K OHM +-5% 1/8W
C952 100N 50V
R956 11.5KOHM +-1% 1/8W
75 KOHM +-1% 1/8W
R954
Q908 RK7002
R952 1K 1/6W 5%
S/B
ZD903 BZX55-B5V6
IC908 KIA431A-AT/P
R957 13K 1/8W 1%
220R 1/8W 5%
R975
R974 220R 1/8W 5%
R973 220R 1/8W 5%
D927 BAV21W
42"
LED901 LED
C958 10UF/50V
Q920 RK7002FD5T116
R976 1M 1/8W 5%
D926 BAV21P
1500pF / 250V C910
R967 10K OHM +-5% 1/8W
D904 BAV21
ZD909 BZX79-C9V1
R966 330K 1/8W 5%
C942 330N 25V
Q913 BC857C
R933 1K 1/4W 5%
Q906 BC857C
R934 15K 5% 3W
TH903 150 OHM
Q918 PMBTA45
R946 1K OHM +-5% 1/8W
R948 2.2K +-5% 1/8W

Power	715G4546	A 2011-04-12

19090_504_110412.eps
110510

Inverter

A02 Inverter

A02

INVERTER

HOT

COLD

COLD HOT

HOT COLD

COLD HOT

IC801 UBA2071AT
IFB CIFB VFB CVFB CSWP CT CF IREF CPWM SGND COMM N,FAULT
GH FS SH NC NC NC GL PGND VDD EN PWMa PWMd

395V
C803 10nF
HQ801
R805 0 OHM +-5% 1/8W
C818 47N 50V
C811 47N 50V
C812 220N 50V
C813 4N7 50V
C814 220N 50V
C815 56P 50V
R806 33K 1/8W 1%
R810 0 OHM +-5% 1/8W
C816 56P 50V
C823 470P 50V
R801
Q801 AOTF10N60
R832 47K +-5% 1/8W
C801 100N 50V
Q802 AOTF10N60
R802 10R 1/8W 5%
R833 47K +-5% 1/8W
Vdd
C804 1U 25V
T803 POWER X'FMR
C802 0.33UF 500V
Q806 BC848C
470OHM +-5% 1/8W R804
Vdd-S
C820 1N 50V
ZD801 RLZ13B
0 OHM +-5% 1/8W
JR901 0R05 1/4W
R829
C819 100N 50V
R809 39K 1/6W 5%
R807 100KOHM +-5% 1/8W
R808 100KOHM +-5% 1/8W
R811 100KOHM +-5% 1/8W
IC803 EL817MA
R828 1K 1/4W 5%
12V
Q808 RK7002FD5T116
R812 1K OHM +-5% 1/8W
ENA
C831 10N 50V
R835 1K 1/4W 5%
12V
IC804 EL817MA
JR902 0R05 1/4W
Q809 RK7002FD5T116
R813 1K OHM +-5% 1/8W
DIM
C832 10N 50V
R827 1K OHM +-5% 1/8W
12V
IC805 EL817MA
R834 3.3K
B
R824 10K 1/6W 5%
IC810 KIA431A-AT/P_NC
R826 330K 1/8W 1%_NC
R820 30K 1/8W 1%_NC
C821 1U 25V_NC
R841 7K5 +-5% 1/8W
470OHM +-5% 1/8W R814
12V
R816 47K 1/8W 1%
IC806 EL817MA
R842 3.3K
R815 2K7 +-5% 1/8W
IC808 KIA431A-AT/P
R819 390K 1/6W 5%
C824 10N 50V
R818 30K 1/8W 1%

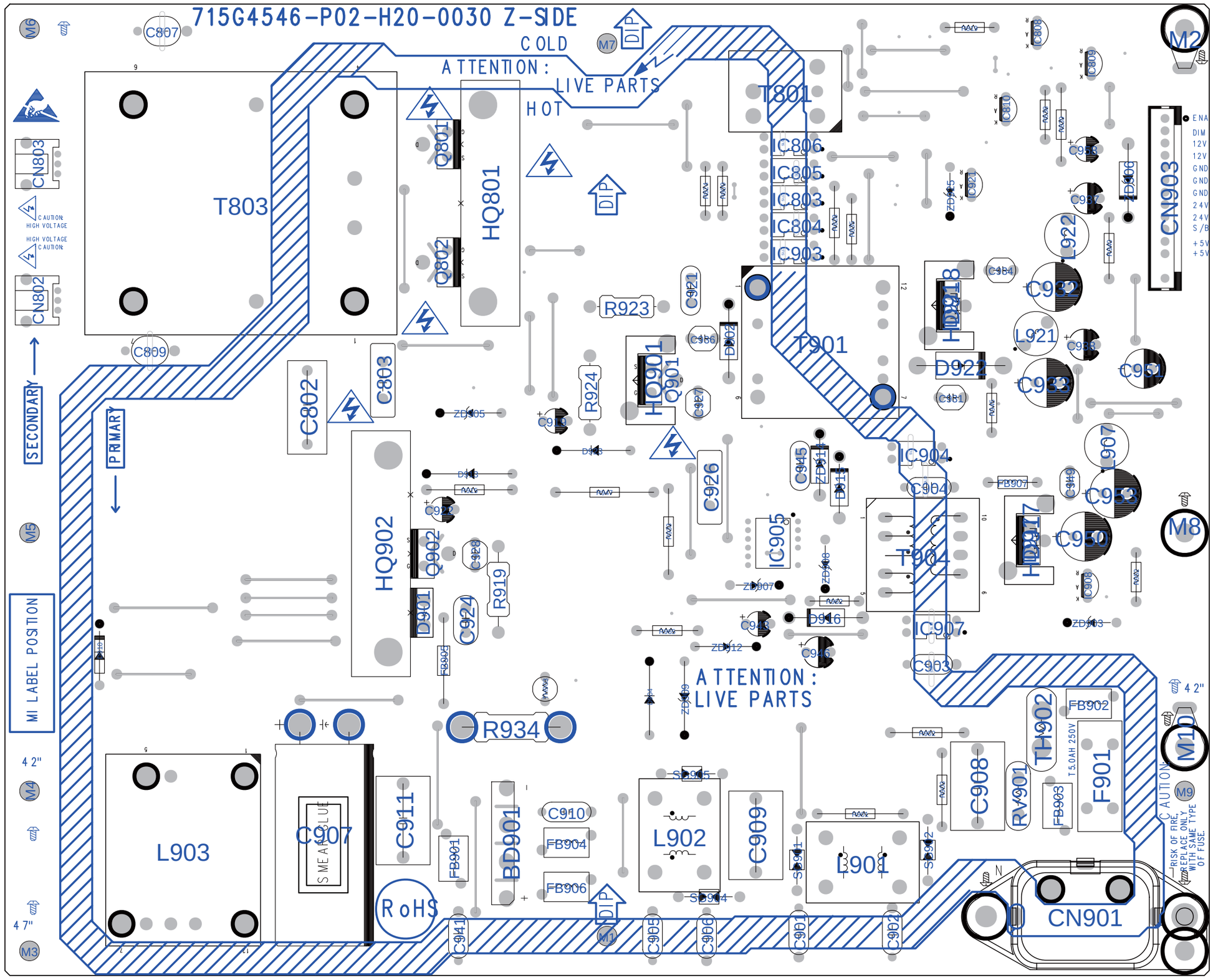
CN803 CONN
C807 15PF 6KV
VS1
C805 1N 50V
C806 1.8NF 50V
C825 470P 50V
D807 BAV99
C827 4N7 50V
10K 1/8W 1% R822
T801 1.2mH
R823 11R 1%
R825 150 OHM 1%
C808 1.8NF 50V
C826 330P 50V
D808 BAV99
D809 BAV99_NC
VS2
C810 1N 50V
R821 47K +-5% 1/8W
C828 2N7 50V
C809 15PF 6KV
CN802 CONN

Arcing
12V
Q803 RK7002FD5T116
R839 10K 1/6W 5%
C835 2U2 25V
R840 10K 1/8W 1%
Q804 RK7002FD5T116
1MOHM +-1% 1/4W
ENA
R838
C833 2U2 25V
C834 1U 25V

B
C
IC809 KIA431A-AT/P
Arcing
20K 1/8W 1% R837
D806 BAV99
C817 56P 50V
R830 330K 1/8W 1%
C829 10N 50V
R831 100KOHM +-5% 1/8W

Inverter	715G4546	A 2011-04-12

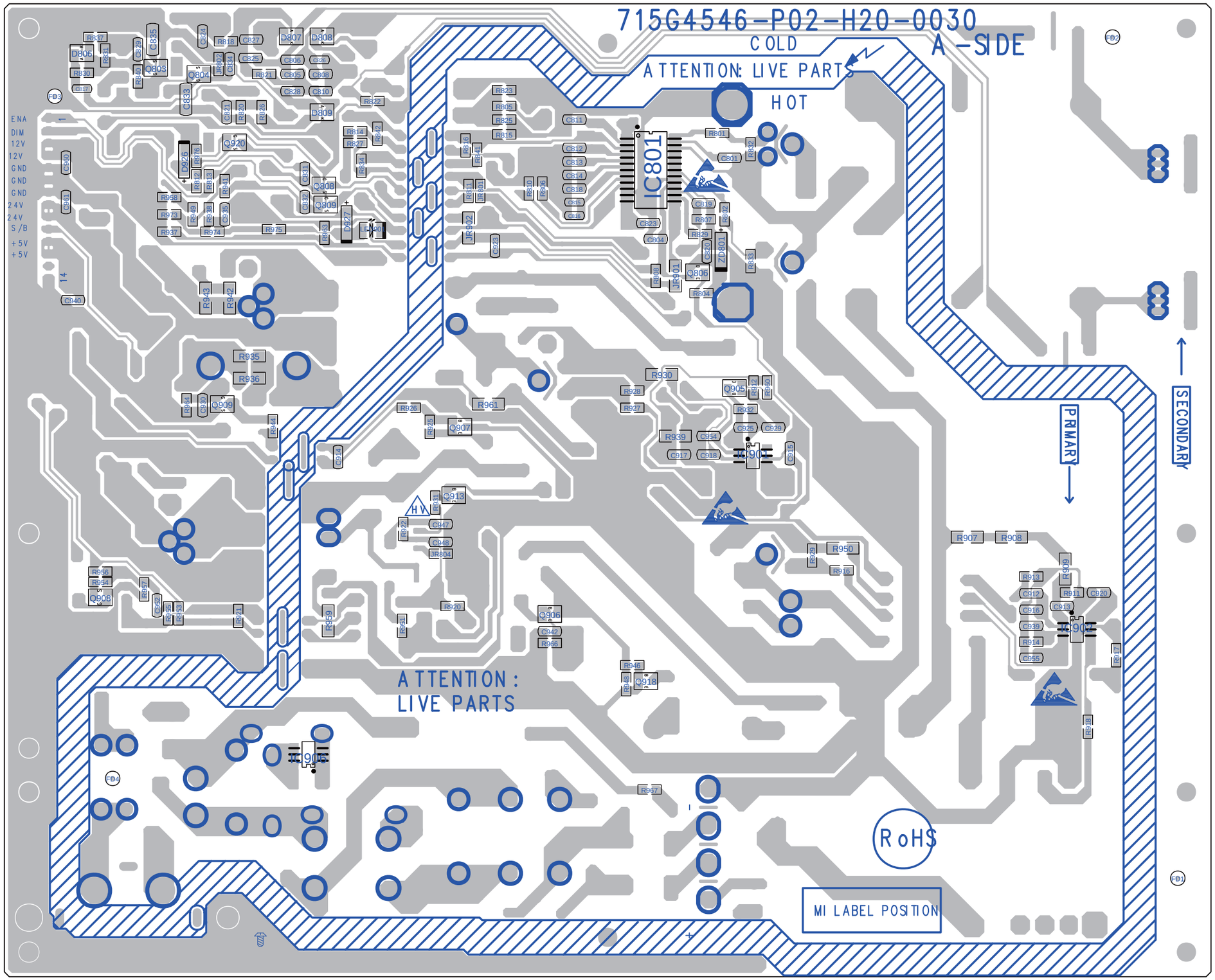
Power layout top



Power layout top	715G4546	A 2011-04-12

19090_506_110412.eps
110412

Power layout bottom



Power layout bottom	715G4546	A	2011-04-12

19090_507_110412.eps
110412