

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

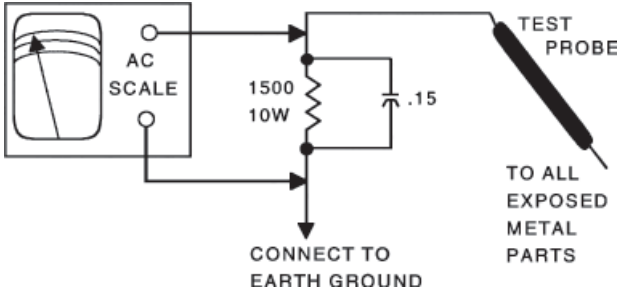
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing, as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to SAMS Technical Publishing, by the manufacturers of the specific type of replacement part listed.

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QUICKFACT  
FROM PHOTOFAC<sup>®</sup>  
LCD SERIES

SET 5540

MODEL LNT4061F (CHASSIS GTU40MUS)

SAMSUNG

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Do not use lead based solder for repair.

For a Complete List of Manuals,  
Visit [www.samswebsite.com](http://www.samswebsite.com)

5540  
Technical Service Data

SAMSUNG  
MODEL LNT4061F (CHASSIS GTU40MUS)  
with BN44-00167A POWER SUPPLY



Essential Coverage For Servicing

LCD Receivers...

- Component Locations
- Parts list
- Placement chart
- Power Supply Schematic



FEBUARY 2010 SET 5540

ENTERING SERVICE MODE

To access the service mode use the remote to turn the TV OFF, than press: Mute, 1, 8, 2, and Power ON in short durations of each other. The set will turn on and enter the service mode. Press the up/down buttons to move the selection cursor. Press the left/right buttons to change data value. Press “Menu” button to save the data to EEPROM and back to the previous service mode category.

Press the “Power” button to Exit and Save Data to Memory.

NOTE: Record value readings before changing any Data values.

SERVICE MODE CATAGORIES

Calibration	AV Calibration	Success
(Not highlighted in the TV mode)	Comp Calibration	Success
	PC Calibration	Success
	HDMI Calibration	Success
Option Byte	Caption Level	10
	Watchdog Enable	1
	Spread Spectrum	1%
	Model	BRDP FHD
	Panel Option	40AMV
	PWM Dimming	INT
	NIM Version	KS1410
	Auto Wall	ON
	RS-232 JACK	Auto/VM
	Gamma	OFF
	HSCB	STD
	LVDS_TX_FMT	2
	LVDS_TX_BIT	10 BIT
White Balance	Sub Brightness	128
	R-Offset	512
	G-Offset	512
	B-Offset	512
	Sub-Contrast	128
	R-Gain	512
	G-Gain	512
	B-Gain	512
W/B Movie	W/B Movie On/Off	Off
	Mode	Dynamic
	Color Tone	Cool 1
	M-sub Contrast	128
	M-sub Bright	128
SVP-LX	Sharpness	>>>
	LNA Plus	>>>
	UV Delay	>>>
	PGA	>>>
	Calibration Target	>>>
	CLK_A	16
	CLK_B	133
	CLK_C	8
	R-Offset	62
	G-Offset	62
	B-Offset	62
	R-Gain	294
	G-Gain	294
	B-Gain	294

NOTE: Avoid overloading set with excessive signal from video generators. Use correct impedance matching. Use an isolation transformer to protect against shock hazard.

MISCELLANEOUS ADJUSTMENTS

FBE2	Patt-Set	0
	B-Slope Gain	60
	B-Tilt Min	30
	B-Tilt Max	90
	L func Basis	70
	H func Basis	75
	Mean offset 1	40
	Mean offset 2	220
	Mean slope	98
	Input Offset	128
	Acr Offset	10
	Arc Th1	10
	Skin Enable	1
MSP44XX	FM Pre-scale	31
	NICAM Pre-scale	7
	Spdif-Dely	0
	Internal Delay Div	0
	Internal Delay Analog	45
	Carrier Mute	1
	Pilot High	10
	Pilot Low	5
	Scart 1 Out Volume	109
	Scart 2 Out Volume	115
NTP3000	Amp Volume	30
	PWM MOD	243
	Drc Thresh	12
	Speaker EQ	1
Submicom Download	Submicom Download	0
Checksum	Checksum	0000
KS1410	RF AGC	0x8A
Dynamic Contrast	Dynamic CE	ON
	Dynamic Dimming	ON
	DBE2 Y_MEAN READ	
EEPROM Access Count	Address: 2DAA, 2900 1	Address: 32A5, 37B 1
	Address: 2DA8, 37A 1	Address: 2D58, 379 1
	Address: 2D5A, 378 1	Address: 2DA9, 377 1
	Address: 2D5B, 376 1	Address: 2D59, 7332 1
	Address: 2DAB, 32A5 1	Address: 732E, 2908 1
	Address: 7331, 2907 1	Address: 2A19, 2906 1
	Address: 737F, 2905 1	Address: 329E, 2904 1
	Address: 32A0, 2903 1	Address: 329D, 2902 1
	Address: 329C, 2901 1	Address: 329B, 0 1
Reset	Factory Reset	Press Enter button, TV will reset & turn off. All customer settings will be returned to the Factory presets including channel lists.
Power Input: 110V-220VAC @ 60Hz.		
Power Consumption: 245W		
Standby Power: <1W		
Use an appropriate sized Variac and/or Isolation transformer for the higher wattage consumption used by the TV.		

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MODEL LNT4061F (CHASSIS GTU40MUS)

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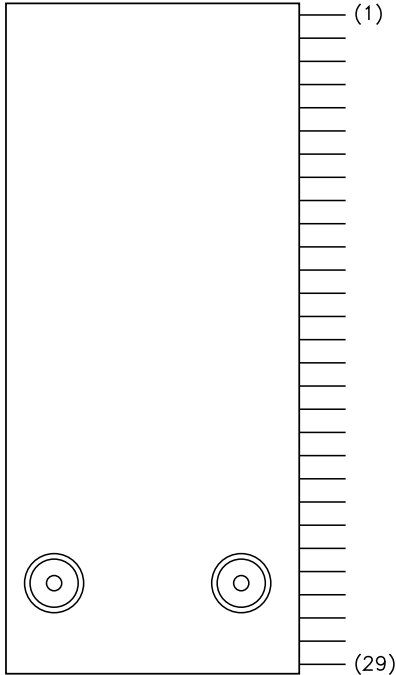
SET 5540

SET 5540

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TUNER INFORMATION

TU501 TUNER  
TERMINAL GUIDE



PIN	Description	Voltage
1	Input_S/W	0V
2	9V_For_LNA	8.9V
3	RFAGC	3.3V
4	B5V	4.95V
5	AFT	4.7V
6	B33V	*15.0V
7	GND	0V
8	Reset	3.3V
9	Error	0V
10	Cvbs	4.3V
11	NC	-
12	SIF	0V
13	3.3V	3.3V
14	GND	0V
15	NC	-
16	1.2v	1.2V
17	Sync	.02V
18	Valid/en	2.9V
19	Data A7	1.6V
20	Data A6	1.6V
21	Data A5	1.6V
22	Data A4	1.6V
23	Data A3	1.6V
24	Data A2	1.6V
25	Data A1	1.6V
26	Data A0	1.6V
27	MPEG_CLK	1.6V
28	SDA	3.3V
29	SCL	3.3V

\*Variable

SCHEMATIC COMPONENT LOCATION GUIDE

BD801	A4	CP806	D2	ICP801	B2	R1837	D17	RM818	B12
BM801	B10	CP807	D2	ICS801	B6	R1838	B17	RM819	D11
BM803	C13	CP808	C2	ICS802	E9	R1839	B18	RM820	B10
BP801	A7	CP809	A5	LM801	B14	R1840	B20	RM821	C11
BP802	B2	CP811	D5	LM802	A14	R1841	D22	RP801	B4
BP803	A4	CP812	D4	LP801	A4	R1842	B17	RP802	B3
BP804	A4	CP813	B1	LX801	A2	R1844	A20	RP804	B1
C1802	D21	CS801	A7	LX802	A3	R1845	B20	RP805	B4
C1803	D22	CS802	B7	NT801	A3	R1846	A20	RP806	B2
C1804	E23	CS803	C5	P1	A1	R1847	E20	RP807	B1
C1806	B21	CS804	C6	PC1801	D12	R1848	B17	RP808	B2
C1807	D20	CS805	D6	PCM801	C13	R1849	D18	RP809	C3
C1808	E20	CS806	A8	PCS801	D7	R1851	E21	RP810	B3
C1809	E18	CS807	D9	PCS802	D7	R1852	E17	RP811	B4
C1811	D20	CS808	B7	Q1801	A21	R1853	A18	RP812	C4
C1812	E24	CS809	A8	Q1802	B21	R1854	D18	RP813	D4
C1813	A22	CS810	B6	Q1803	E20	R1855	C18	RP814	C2
C1814	D18	CX801	A2	Q1804	E19	R1856	C18	RP815	C4
C1815	D18	CX802	A3	Q1805	E18	R1857	C18	RP816	C4
C1816	D18	CX803	A3	Q1806	E20	R1858	C18	RP817	C5
C1817	D18	CX804	B4	Q1807	B20	R1859	C17	RP818	B3
C1818	A23	CY811	C13	Q1808	E22	R1860	C20	RP819	B3
C1819	A22	CY812	C13	Q1809	A20	R1862	A18	RP820	C5
C1820	B23	CY821	A3	Q1810	E18	R1863	B19	RP821	C5
C1821	B23	CY822	A3	Q1811	B18	R1864	C20	RP822	D5
C1822	B22	D1801	A21	Q1812	B18	R1865	A17	RP823	D5
C1824	A22	D1802	B21	Q1813	A18	R1866	C20	RP824	D5
C1825	B23	D1803	B23	Q1814	A18	R1867	B22	RP825	C3
C1827	C18	D1804	B19	Q1815	A17	R1868	B22	RP826	B3
C1828	C18	D1805	A23	Q1816	B17	R1869	B23	RP828	D5
C1829	C18	D1806	A23	QM801	C10	R1870	B23	RP829	D4
C1831	E22	D1807	D19	QP801	B4	R1871	B23	RS801	A7
C1833	A18	D1808	E21	QP802	B4	R1872	B23	RS803	B6
C1834	E23	D1809	A19	QP803	D3	R1873	B24	RS804	C7
C1835	E20	D1810	B21	QS801	D7	R1874	B24	RS806	D6
C1838	A15	D1811	E20	QS802	D8	R1875	C22	RS806	D9
C1838	B15	D1813	A21	QS803	A2	R1876	C22	RS807	D9
C1839	B21	DM801	A10	R1801	D22	R1877	C23	RS808	D9
C1840	A21	DM802	C10	R1802	D22	R1878	C23	RS810	E9
C1842	D18	DM804	B13	R1803	D21	R1879	C23	RS811	D8
C1843	E17	DM805	A13	R1804	D21	R1880	C23	RS812	D8
C1844	A15	DM808	C12	R1806	A20	R1881	C23	RS813	A1
C1844	B15	DM810	B11	R1807	E22	R1882	C24	RX801	A2
C1845	A23	DP801	A5	R1808	D21	R1887	C20	SCP801	D4
CM801	A11	DP802	A5	R1812	E19	R1888	C19	SX801	A1
CM802	A10	DP804	B3	R1813	E19	R1890	C18	T1801	A22
CM803	B12	DP805	C3	R1815	E18	R1891	A17	T1802	A19
CM804	C10	DP806	B2	R1817	B20	R1892	A17	TDM801	A11
CM805	C10	DP807	D3	R1818	B18	REL801	A2	TM801	A13
CM806	A13	DS801	B7	R1819	A19	REL801	A3	TS801	A7
CM807	A14	DS802	B7	R1820	D18	RM801	A10	VR801	C20
CM808	A14	DS803	C7	R1821	C18	RM802	C11	VX801	A2
CM809	B15	DS804	A8	R1822	C18	RM803	C10	VX802	A1
CM810	B13	DS805	A2	R1823	C18	RM804	A10	ZD1801	E22
CM811	B14	F1801	A18	R1824	C20	RM805	B14	ZD1802	A20
CM812	B15	FB802	A3	R1825	D18	RM806	C14	ZD1803	B20
CM813	D14	FB804	A3	R1826	D18	RM807	B14	ZD1805	E23
CM814	D10	FS801	A1	R1827	D17	RM808	B14	ZDM801	C10
CM815	D11	FS802	A1	R1828	D18	RM809	D14	ZDM802	C12
CM816	B12	IC1801	C21	R1829	D17	RM810	B15	ZDM805	D11
CM817	B14	IC1802	D19	R1830	C20	RM811	A15	ZDP801	B3
CM818	B10	IC1803	C19	R1831	B24	RM812	A13	ZDP803	D4
CP801	B4	ICM801	B11	R1832	E20	RM814	D10	ZDP807	D3
CP802	B2	ICM802	A15	R1833	A23	RM815	C10	ZDS801	B6
CP804	B1	ICM803	D14	R1834	A23	RM816	C10	ZDS802	D5
CP805	B1	ICM804	D10	R1835	B23	RM817	C10		

**B**

## D

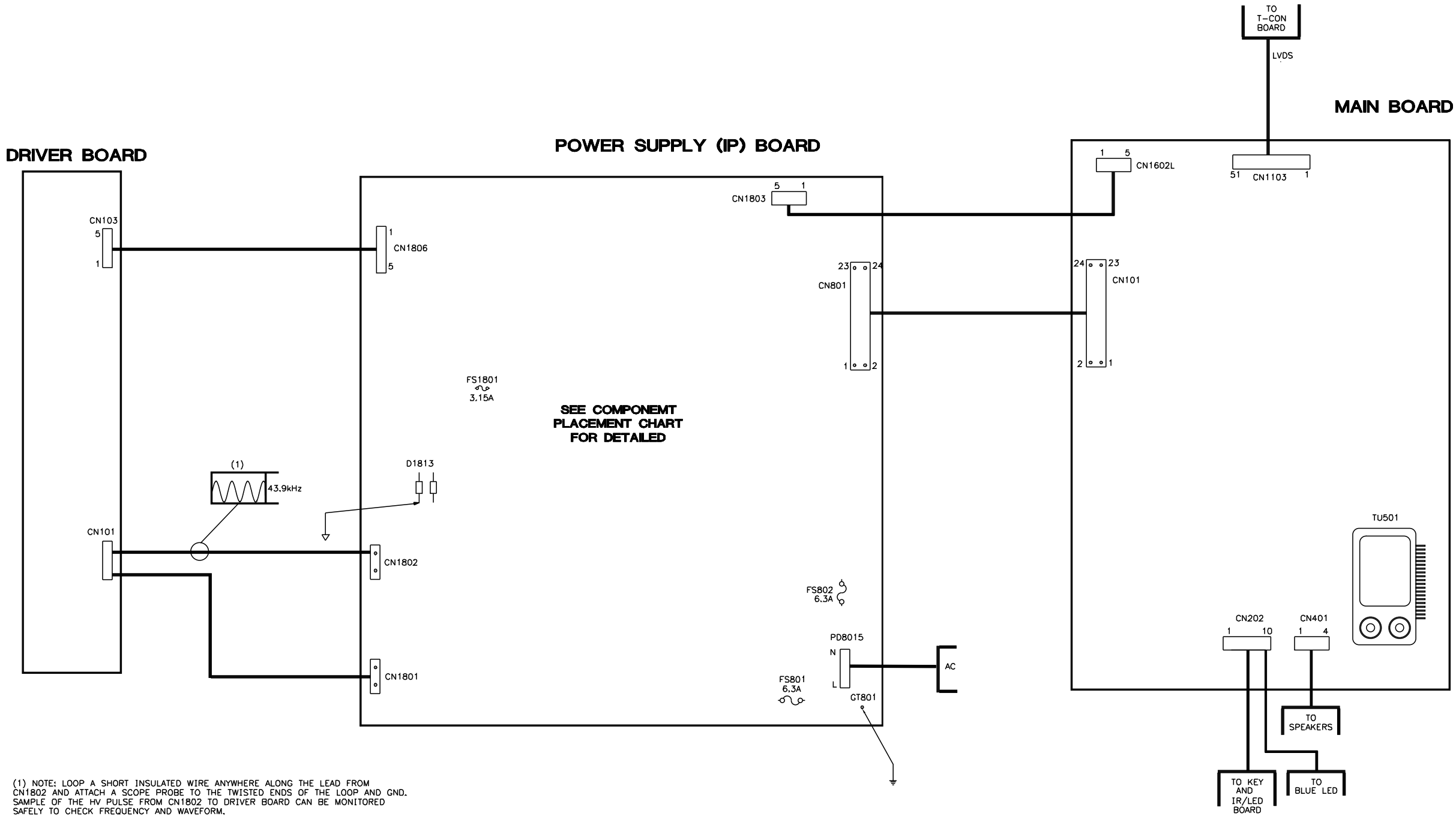


## F



BOARD PLACEMENT CHART

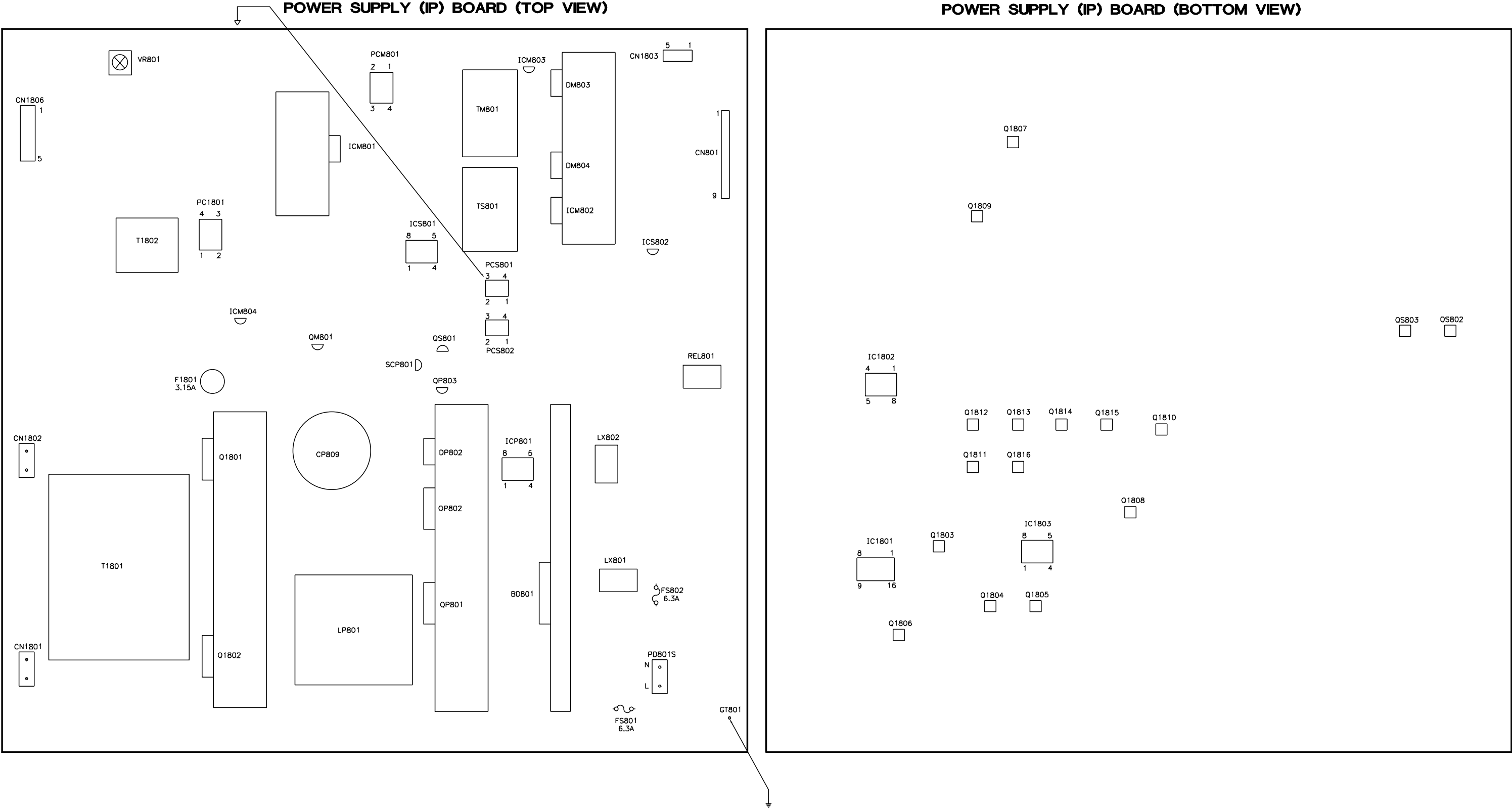
See Connector Charts for additional information.



See Connector Charts for additional information.

COMPONENT PLACEMENT CHART

See Connector Charts for additional information.





CONNECTOR CHARTS

See Placement Charts for connector locations.

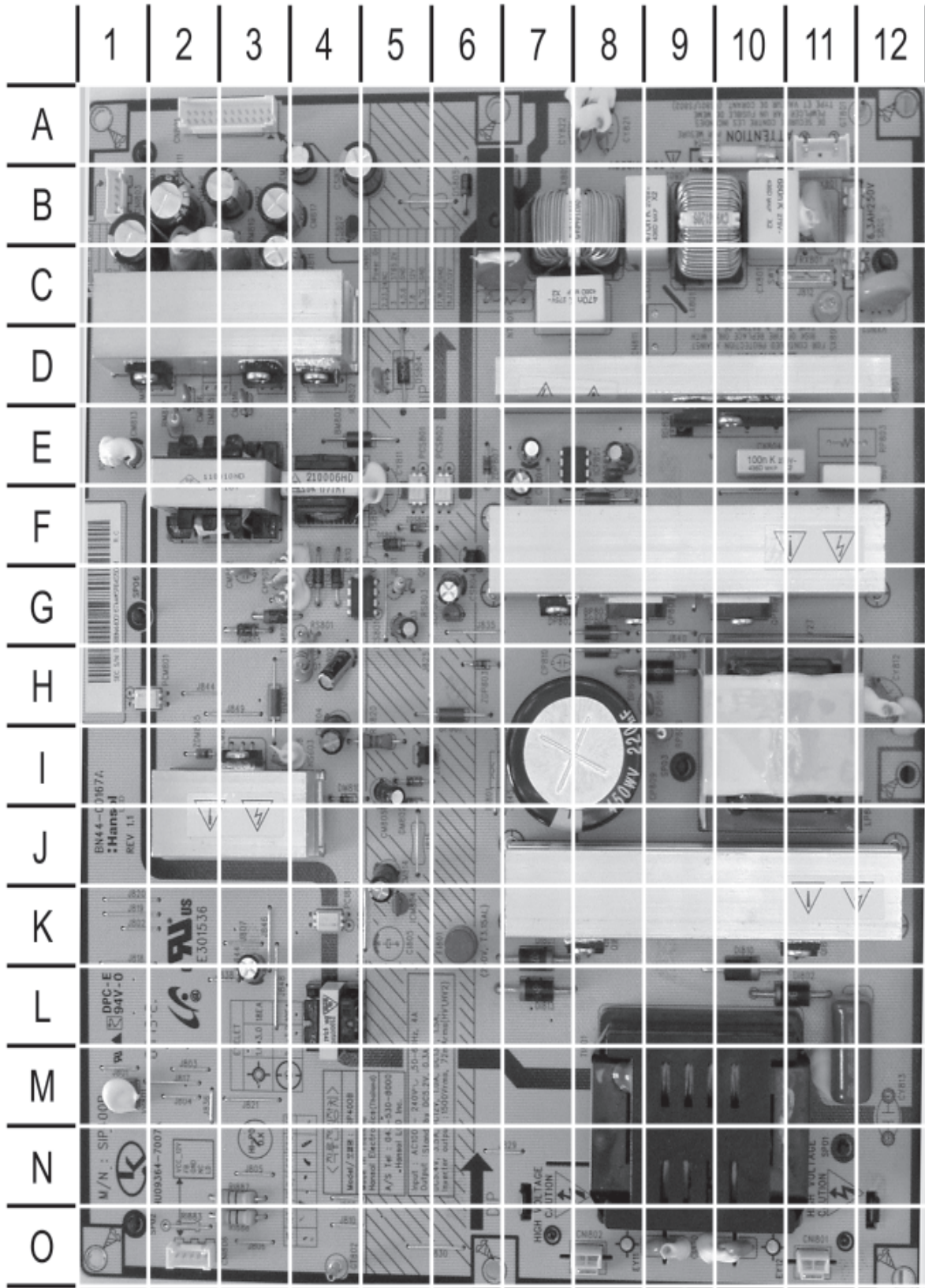
DRIVER Board				MAIN Board			
CN103				CN101			
PIN	ID	Resistance	Voltage	PIN	ID	Resistance	Voltage
1	VCC_12V	13.6K	11.27V	1	Power On/Off	22K	3.8V
2	FB	13.3	10VPP/43.9KHZ (1)	2	NC	-	-
3	GND	GND	0V	3	STBY 5.2V	22K	5.1V
4	NC	-	-	4	GND	GND	0V
5	LD	1.4M	9.9V	5	GND	GND	0V
				6	GND	GND	0V
				7	12V	6.8M	12.8V
				8	12V	6.8M	12.8V
				9	GND	GND	0V
				10	GND	GND	0V
				11	GND	GND	0V
				12	GND	GND	0V
				13	5.4V	4.3K	5. 6V
				14	5.4V	4.3K	5. 6V
				15	5.4V	4.3K	5. 6V
				16	5.4V	4.3K	5. 6V
				17	GND	GND	0V
				18	GND	GND	0V
				19	13V	80K	12.8V
				20	GND	GND	0V
				21	13V	80K	12.8V
				22	13V	80K	12.8V
				23	NC	-	-
				24	NC	-	-
				CN1103			
				Do not measure (LVDS)			
POWER SUPPLY (IP) Board				CN202			
PIN	ID	Resistance	Voltage	PIN	ID	Resistance	Voltage
1	Power On/Off	14.7K	3.8V	1	IR	2M	4.0V
2	NC	-	-	2	GND	GND	0V
3	STBY 5.2V	4K	5.1V	3	5V	20.7K	5.0V
4	GND	GND	0V	4	MSCL-A5V	2.48M	.07V
5	GND	GND	0V	5	BUZZER	12.5K	0V
6	GND	GND	0V	6	KEY-INPUT 1	11K	3.3V
7	12V	4.2K	12.8V	7	KEY-INPUT 2	11K	3.3V
8	12V	4.2K	12.8V	8	GND	GND	0V
9	GND	GND	0V	9	MSDA-A5V	20.4K	5.1V
10	GND	GND	0V	10	LED-CTRL	3.6M	0V
11	GND	GND	0V	CN1602L			
12	GND	GND	0V	PIN	ID	Resistance	Voltage
13	5.4V	209	5. 6V	1	INVERT On/Off	5K	4.9V
14	5.4V	209	5. 6V	2	DIM	490	3.5V
15	5.4V	209	5. 6V	3	NC	-	-
16	5.4V	209	5. 6V	4	GND	GND	0V
17	GND	GND	0V	5	DET-5V	5k	5.0V
18	GND	GND	0V	CN401			
19	13V	2.2K	12.8V	PIN	ID	Resistance	Voltage
20	GND	GND	0V	1	R+	4.6K	.6V
21	13V	2.2K	12.8V	2	R-	4.6K	.6V
22	13V	2.2K	12.8V	3	L+	4.6K	.6V
23	NC	-	-	4	L-	4.6K	.6V
24	NC	-	-				
CN101				CN1801			
PIN	ID	Resistance	Voltage	PIN	ID	Resistance	Voltage
1	VCC_12V	4.8K	11.27V	1	HIGH V	33.6	Do not measure
2	FB	21	10VPP/43.9KHZ (1)	2	HIGH V	33.6	Do not measure
3	GND	GND	0V	CN1802			
4	NC	-	-	PIN	ID	Resistance	Voltage
5	LD	104K	9.9V	1	HIGH V	33.6	Do not measure
				2	HIGH V	33.6	Do not measure
				CN1803			
				PIN	ID	Resistance	Voltage
				1	INVERT On/Off	103K	4.9V
				2	DIM	68K	3.5V
				3	NC	-	-
				4	GND	GND	0V
				5	DET-5V	209	5.0V
				CN1806			
				PIN	ID	Resistance	Voltage
				1	VCC_12V	4.8K	11.27V
				2	FB	21	10VPP/43.9KHZ (1)
				3	GND	GND	0V
				4	NC	-	-
				5	LD	104K	9.9V

(1) Loop a short insulated wire anywhere along the lead from CN1802 and attach a scope probe to the twisted ends of the loop and gnd. Sample of the HV pulse from CN1802 to Driver board can be monitored safely to check frequency and waveform.

See Placement Charts for connector locations.

SAMSUNG  
MODEL LNT4061F (CHASSIS GTU40MUS)

POWER SUPPLY (IP) BOARD TOP



POWER SUPPLY (IP) BOARD, GRIDTRACE LOCATION GUIDE											
BD801	E10	CN801	A2	CY822	A8	ICP801	E8	RM810	B2		
BM801	H3	CN1801	O11	D1801	K7	ICS801	G5	RM811	B2		
BM803	E4	CN1802	O8	D1802	L11	ICS802	B4	RM812	E2		
BP801	H6	CN1803	B1	D1810	K10	LM801	B2	RM814	J8		
BP802	F8	CN1806	O2	D1813	L7	LM802	B2	RM820	I5		
BP803	G8	CP801	H9	DM801	G3	LP801	I11	RP801	E11		
BP804	G8	CP802	E8	DM802	I5	LX801	B9	RP805	I9		
C1806	L11	CP804	E7	DM803	D1	LX802	B8	RS801	H4		
C1820	O9	CP806	F7	DM804	D3	NT801	C6	RS803	G5		
C1824	O10	CP809	I8	DM810	I4	PC1801	K4	RX801	B11		
C1844	K3	CP813	E8	DP801	H9	PCM801	H1	SCP801	G6		
CM801	G3	CS801	H4	DP802	G7	PCS801	E5	SX801	C11		
CM802	G3	CS802	H4	DS801	G4	PCS802	F6	T1801	M8		
CM804	I4	CS803	G5	DS802	G4	PD801S	A11	T1802	L4		
CM805	I5	CS804	G6	DS803	F5	Q1801	K8	TDM801	G3		
CM806	D2	CS804	G6	DS804	D5	Q1802	K11	TM801	E2		
CM807	B1	CS806	A4	DS805	B6	QM801	I5	VR1801	M1		
CM808	B2	CS809	D5	DS803	F5	QP801	G10	VX801	B11		
CM809	A4	CS810	F4	F1801	K6	QP802	G8	VX802	C12		
CM810	D3	CX801	B10	FS801	B11	QP803	F6	ZDM801	I5		
CM811	C3	CX802	C7	FS802	A10	QS801	F5	ZDM805	I2		
CM812	B3	CX803	B9	GT801	A12	R1887	N3	ZDP803	H6		
CM813	E1	CX804	E10	ICM801	I3	R1888	O3	ZDP807	E6		
CM814	K5	CY811	E5	ICM802	D4	REL801	B6	ZDS802	F5		
CM817	B3	CY812	H12	ICM803	E1	RM801	G3				
CM818	I3	CY821	A8	ICM804	K5	RM804	G3				



POWER SUPPLY (IP) BOARD BOTTOM



POWER SUPPLY (IP) BOARD, GRIDTRACE LOCATION GUIDE									
C1802	M11	D1803	O8	R1815	K12	R1863	J3	RP810	F4
C1803	N10	D1804	K4	R1817	K2	R1864	O11	RP811	F4
C1804	K10	D1805	M8	R1818	M10	R1865	K9	RP812	F4
C1807	N11	D1806	N8	R1819	L6	R1866	M12	RP813	F7
C1808	L12	D1807	N9	R1820	N10	R1867	O7	RP814	F6
C1809	K12	D1808	L11	R1821	K11	R1868	O7	RP815	F6
C1811	N12	D1809	L6	R1822	L11	R1869	O7	RP816	G6
C1812	O11	D1811	N12	R1823	L11	R1870	O7	RP817	G6
C1813	N9	DM808	H10	R1824	O10	R1871	N7	RP818	E5
C1814	M10	DP804	F4	R1825	N9	R1872	N7	RP819	E4
C1815	N10	DP805	F4	R1826	N10	R1873	N7	RP820	H6
C1816	N9	DP806	E5	R1827	M9	R1874	N7	RP821	H6
C1817	M9	DP807	E6	R1828	N9	R1875	O7	RP822	H6
C1818	M8	IC1801	N11	R1829	M9	R1876	O7	RP823	H6
C1819	M9	IC1802	N9	R1830	O11	R1877	O7	RP824	H6
C1821	N8	IC1803	L11	R1831	N8	R1878	N7	RP825	F4
C1822	N8	Q1803	L11	R1832	N11	R1879	N7	RP825	F4
C1825	N8	Q1804	L12	R1833	N8	R1880	N7	RP828	H6
C1827	L11	Q1805	L12	R1834	M8	R1881	N7	RP829	G7
C1828	L11	Q1806	N12	R1835	N8	R1882	N7	RS804	F8
C1829	L11	Q1807	J3	R1837	O9	R1890	K11	RS805	F8
C1831	K11	Q1808	K11	R1838	M9	R1891	L10	RS806	B8
C1833	L9	Q1809	L6	R1839	M9	R1892	L10	RS807	B8
C1834	M11	Q1810	K9	R1840	K2	RM802	J8	RS808	B8
C1835	N11	Q1811	M10	R1841	N11	RM803	I8	RS810	B8
C1838	L9	Q1812	M9	R1842	L10	RM805	F12	RS811	B8
C1839	K2	Q1813	L9	R1844	K5	RM806	E12	RS812	A8
C1840	K5	Q1814	L9	R1845	J3	RM807	D12	RS813	A8
C1842	O9	Q1815	L9	R1847	N12	RM808	E12	SG801	A1
C1843	K9	Q1816	M10	R1848	L10	RM809	E12	SG802	A2
C1845	N8	QS802	A8	R1849	M10	RP815	J7	SG803	C4
CM803	H10	QS803	A8	R1851	L11	RM816	J7	SG804	B4
CM815	I10	RS805	F7	R1852	L11	RM817	J7	ZD1801	K10
CM816	H10	R1801	N11	R1853	L9	RM818	H10	ZD1802	K5
CP805	E6	R1802	N11	R1854	O9	RM819	K8	ZD1803	K2
CP807	E6	R1803	N10	R1855	L11	RM827	I9	ZD1805	M11
CP808	F6	R1804	N10	R1856	L11	RP802	E4	ZDP801	F5
CP811	H6	R1806	K6	R1857	L11	RP804	E4	ZDS801	G9
CP812	H7	R1807	K11	R1858	L11	RP806	E5		
CS805	G8	R1808	N10	R1859	L11	RP807	E6		
CS807	B8	R1812	L12	R1860	M12	RP808	F6		
CS808	G9	R1813	L12	R1862	K9	RP809	F4		

PARTS LIST

Item No.	Type No.	Mfr. Part No.	Notes
BD801	GSIB15A60	-	Bridge Rectifier
D1801	MUR460	-	600V, 4AMP
D1802	31GF6	-	600V, 3AMP
D1803	IPS302	-	Code C3
D1804	KDS184	-	Code B3
D1805	IPS302	-	Code C3
D1806, 07, 08, 09	KDS184	-	Code B3
D1810	MUR460	-	600V, 4AMP
D1811	KDS184	-	Code B3
D1813	31GF6	-	600V, 3AMP
DM801	UF4007	-	1000V, 1AMP
DM802	1N4148	-	100v, 300mA
DM804	MBRF10H100CT	-	100V, 10AMP
DM805	MBRF10H150CT	-	150V, 10AMP
DM808	SS36 (60V, 3AMP)	-	Code S6
DM810	1N4148	-	100v, 300mA
DP801	MUR460	-	600V, 4AMP
DP802	ISL9R860PF2	-	600V, 8AMP
DP804, 05, 06, 07	KDS184	-	Code B3
DS801	UF4007	-	1000V, 1AMP
DS802, 03	1N4937	-	600V, 1AMP
DS804	SB2H100	-	100V, 2AMP
DS805	1N4937	-	600V, 1AMP
IC1801	MSC1691AI	-	-
IC1802, 03	KIA358F	-	-
ICM801	FSDM0565R	-	Code DH11
ICM802	KIA278R12PI	-	-
ICM803, 04	KIA431A	-	-
ICP801	ICE1PCS02	-	-
ICS801	ICE3B0365J	-	-
ICS802	KIA431A	-	-
# PC1801	Opto-Coupler	-	TCED1108
# PCM801	Opto-Coupler	-	TCED1108
# PCS801, 02	Opto-Coupler	-	TCED1108
Q1801, 02	FQPF13N50C	-	-
Q1803	KTN2222AS	-	Code ZG
Q1804, 05	KRC104C	-	Code ND
Q1806	KTN2222AS	-	Code ZG
Q1807	KTN2907S	-	Code ZH
Q1808	2SD2403	-	Code GY
Q1809	KTN2907S	-	Code ZH
Q1810	KTN2222AS	-	Code ZG
Q1811	KTN2907S	-	Code ZH
Q1812, 13	KTN2222AS	-	Code ZG
Q1814	KTN2907S	-	Code ZH
Q1815, 16	KTN2222AS	-	Code ZG
QM801	MPS651Y	-	-
QP801, 02	FQA13N50CF	-	-
QP803	MPS651Y	-	-
QS801	KSC2331Y	-	-
QS802, 03	KTN2222AS	-	Code ZG
ZD1801	MMBZ5232B (5.6V)	-	Code 8G
ZD1802, 03	MMBZ5245B (15V)	-	Code 8V
ZD1805	MMBZ5234B (6.2V)	-	Code 8J
ZDM801	1N5246B (16V)	-	-
ZDM802	MMBZ5245B (15V)	-	Code 8V
ZDM805	1N5252B (24V)	-	-
ZDP801	MMBZ5252B (24V)	-	Code 81C
ZDP803	1N5234B (6.2V)	-	-
ZDP807	1N5246B (16V)	-	-
ZDS801	MMBZ5252B (24V)	-	Code 81C
ZDS802	1N5245B (15V)	-	-

Item No.	Function/Rating	Mfr. Part No.	Notes
B1801	Ferrite Bead	-	-
BD801S	Ferrite Bead	-	-
BM801	Ferrite Bead	-	-
BM803	Ferrite Bead	-	-
BP801, 02, 03, 04	Ferrite Bead	-	-
C1820	27pF 6kV	-	-
C1824	27pF 6kV	-	-
CM802	100pF 1kV	-	-
CM806	.001µF 1kV	-	-
CM810	220pF 1kV	-	-
CM818	68pF 1kV	-	-
CP801	100pF 1kV	-	-
# CP809	220µF 450V	-	-
CS801	470pF 1kV	-	-
CS809	100pF 1kV	-	-
CS810	.001µF 1kV	-	-
# CX801	.68 275VAC	-	-
# CX802, 03	.47 275VAC	-	-
# CY811, 12	470pF 400VAC	-	-
# CY821, 22	470pF 400VAC	-	-
F1801	Fuse	-	3.15A, 250VAC
FB802	Ferrite Bead	-	-
FB804	Ferrite Bead	-	-
# FS801, 02	Fuse	-	6.3A, 250VAC
LM801, 02	Inductor	-	4.7µH
# LP801	Inductor	-	EER4042
# LX801, 02	Line Choke	-	CV940120S
# NT801	Thermistor	-	5D15
# REL801	Relay, Power	-	10A250V
RP801	0.1 5W	-	-
RX801	560K 1/2W	-	-
SCP801	MCR100-6	-	-
SX801	Spark Gap	-	RA-452MS-V7
# T1801	Main Transformer	-	UU32.5
# T1802	Pulse Transformer	-	EE1614
TDM801	Transient Voltage Suppressor	-	P6KE160A, 160V
# TM801	SMP Transformer	-	EER2828
# TS801	-	-	-
VR801	15K	-	-
# VX801	Varistor	-	14N751
VX802	Varistor	-	14N751
# TU201	Tuner	BN40-00107A	DNVS227IH262A
	Panel	BN07-00409A	LTA400HT
	PC Board	BN81-01790A	Driver
	PC Board	BN41-00850A	IR/LED
	PC Board	BN41-00851A	Key
	PC Board	BN94-01199N	Main
	PC Board	BN44-00167A	Power Supply (IP)
	PC Board	BN81-01870A	T-Con
	Speakers	BN96-04771A	8 Ohms
	Transmitter	AA59-00852A	Remote

Use Lead Free Solder.  
# For SAFETY use only equivalent replacement part.

Important Parts Information

■ Parts not listed in the parts list are commonly available at your local electronics parts retailer.

■ The parts listed here are those not usually available from a well-stocked supply cabinet or bin.

■ On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.

■ When ordering parts, state the model number, part number, and description.