

GTO Series 1201.1 1201.1II 1 CHANNEL POWER AMPLIFIER

SERVICE MANUAL



JBL Consumer Products 250 Crossways Park Dr. Woodbury, New York 11797

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GTO 1201.1/ GTO 1201.1II Specifications

Output Power: (14.4V supply)	787W RMS x 1 channels @ 4 ohms; ≤1% THD + N 1114W RMS x 1 channels @ 2 ohms; ≤1% THD + N
Signal-to-noise ratio:	70dBA (reference 1W into 4 ohms)
Dynamic power:	1339W @ 2 ohms
Effective damping factor:	6.34 @ 4 ohms
Frequency response:	10Hz – 302Hz (–3dB)
Maximum input signal:	6.1V
Maximum sensitivity:	GTO 1201.1 - 140mV
	GTO 1201.1II - 75mV
DC Offset	<50mV (-50%)
Output regulation:	.14dB @ 4 ohms
Idle Current	2.3A
Input Impedance	22kΩ
Max Current Draw	73A @ 4 ohms
	125A @ 2 ohms
Dimensions:	18 11/16 x 12 5/16 x 2 3/8" (L x W x D)
	(474mm x 313mm x 60mm)
Fuses:	40A x 3

JBL continually strives to update and improve existing products, as well as create new ones. The specifications and details in this and related JBL publications are therefore subject to change without notice.

Features

- 1-Channel Operation
- Advanced MOSFET Oversized Floating Rail Power Supply
- Floating Ground Factory Head Unit Speaker Level input
- Variable Input Sensitivity (250mV 6V)
- Fully Complementary Output Stage with Class-D Voltage Amplification
- Gold-plated Power, Input and Output Connectors
- 2-Ohm Stable

Test Conditions and Notes

- All tests to be done, unless otherwise specified, from 10Hz to 302Hz at 14.4V DC into 2 ohm loads and adjust the units gain so that with a .250 volt input signal the unit is at its maximum rated output. All measurements will be done using an Audio precision system one and the supply voltage.
- An A+ line voltage of 14.4V DC shall be applied to the unit under test for all measurements unless otherwise specified. The voltage applied to the unit shall be measured at the power connection on the Amplifier.
- Signal Source

Unless otherwise specified, all tests shall be conducted with the Audio Signal Generator output configured to be balanced, less than or equal to 50 ohm source impedance, and floating. The signal source "GND" shall be connected to the Amplifier PWR GND at the Amplifier.

Output Load

Unless otherwise specified, all tests shall be conducted with 2 ohm resistive loads having less than 10% reactive components at any frequency below 302Hz. Each resistor shall have a value that remains within 1% while dissipating the rated output of the unit under test.

Power Indicator LED steadily illuminates for normal operation. LED blinks when protection circuitry is engaged, and during power up.

INSTALLATION

WARNING: Playing loud music in an automobile can hinder your ability to hear traffic and permanently damage your hearing. We recommend listening at low or moderate levels while driving your car. JBL accepts no liability for hearing loss, bodily injury or property damage resulting from the use or misuse of this product.

IMPORTANT: To get the best

performance from your JBL Grand Touring® Series amplifiers, we strongly recommend that installation be entrusted to a qualified professional. Although these instructions explain how to install GTO amplifiers in a general sense, they do not show specific installation methods that may be required for your particular vehicle. If you do not have the necessary tools or experience, do not attempt the installation yourself. Instead, please ask your authorized JBL car audio dealer about professional installation.

INSTALLATION WARNINGS AND TIPS

- · Always wear protective eyewear when using tools.
- Turn off the audio system and other electrical devices before you start. Disconnect the (-) negative lead from vour vehicle's batterv.
- · Check clearances on both sides of a planned mounting surface before drilling any holes or installing any screws. Remember that the screws can extend behind the surface.
- · At the installation sites, locate and make a note of all fuel lines, hydraulic brake lines, vacuum lines and electrical wiring. Use extreme caution when cutting or drilling in and around these areas.

- · Before drilling or cutting holes, use a utility knife to remove unwanted fabric or vinyl to keep material from snagging in a drill bit.
- · When routing cables, keep input-signal cables away from power cables and speaker wires.
- When making connections, make certain they are secure and properly insulated.
- · If the amplifier's fuse must be replaced, use only the same type and rating as that of the original. Do not substitute another kind.

CHOOSING A LOCATION AND MOUNTING THE AMPLIFIER

Choose a mounting location in the trunk or cargo area where the amplifier will not be damaged by shifting cargo. Amplifier cooling is essential for proper amplifier operation. If the amplifier is to be installed in an enclosed space, make sure there is sufficient air circulation for the amplifier to cool itself.

When mounting the amplifier under a seat, ensure that it is clear of all moving seat parts and does not affect the seat adjustments. Mount the amplifier so it is not damaged by the feet of backseat passengers. Make sure that the amplifier is mounted securely using nuts and bolts or the supplied mounting screws.

Mount the amplifier so that it remains dry - never mount an amplifier outside the vehicle or in the engine compartment.

POWER CONNECTIONS

The GTO amplifiers are capable of delivering extremely high power levels, and require a heavy-duty and reliable connection to the vehicle's electrical system in order to perform optimally. See Figure 1 for connection location. Please adhere to the following instructions carefully:

Ground Connection

Connect the amplifier's Ground (GND) terminal to a solid point on the vehicle's metal chassis, as close to the amplifier as possible. Refer to the chart below to determine minimum wire-gauge size. Scrape away any paint from this location; use a startype lock washer to secure the connection.

Power Connection

Connect a wire (see chart at right for appropriate gauge) directly to the vehicle's positive battery terminal, and install an appropriate fuse holder within 18" of the battery terminal. Do not install the fuse at this time. Route the wire to the amplifier's location, and connect it to the amplifier's Positive (+12V) terminal. Be sure to use appropriate grommets whenever routing wires through the firewall or other sheet metal. Failure to adequately protect the positive wire from potential damage may result in a vehicle fire. When you are done routing and connecting this wire, you may install the fuse at the battery.

Remote Connection

Connect the amplifier's Remote (REM) terminal to the source unit's Remote Turn-On lead using a minimum of 18-gauge wire.

NOTE: When using the speaker level inputs, connect the remote (REM) terminal to the source unit. If your source unit does not have a remote turn-on connection, connect the amplifier's (REM) terminal to the vehicle's accessory circuit.

Speaker Connections

Refer to the application guides on the pages that follow. Speaker connections should be made using a minimum of 16-gauge wire.

NOTE: When using the high-level inputs, the AUX outputs can be used to pass a line-level signal to another amplifier.

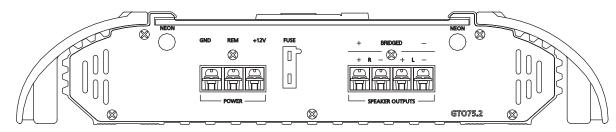
Wire Gauge Chart

Amplifier	Maximum	Minimum
Model	Current Draw	Wire Gauge
GTO1201.1	115A	#4 AWG

These recommendations assume 7' - 10' wire runs. If your installation differs markedly, you will need to adjust the wire gauge accordingly.

IMPORTANT NOTE: If you are planning to use optional neon tubes, install them before making any electrical connections to the amplifier (refer to"Installing Neon Tubes" on page 5).

Figure 1. Terminal connection end plate.



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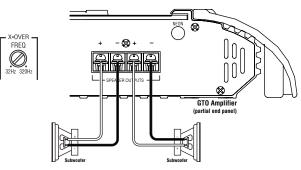
CONNECTIONS - GTO1201.1/GTO1201.1II

The GTO subwoofer amplifiers are single-channel amplifiers. There are two sets of terminals to make it easy to connect multiple woofers. Either set of (+/-) terminals may be used when connecting woofers.

To the right are two application diagrams to help plan your subwoofer system installation. **Figures 2 and 3** show how to configure the GTO subwoofer amplifiers

NOTE: For simplicity, Figures 2 and 3 do not show power, remote and input connections.

NOTE: Minimum speaker load is 2 ohms.





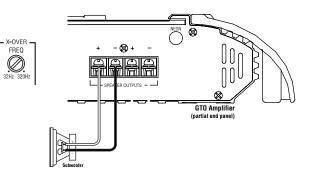


Figure 3. GTO subwoofer amplifier with one woofer connection.

INSTALLATION AND SETUP

SETTING THE CROSSOVER(S)

Determine your system plans and set the crossover mode switch accordingly.

Initially set the crossover frequency control midway. While listening to music, adjust the crossover for the least perceived distortion from the speakers, allowing them to reproduce as much bass as possible.

Systems using a separate subwoofer set the crossover mode to HP (high pass) for your full-range speakers. Adjust the crossover frequency to limit bass and provide increased system volume with less distortion.

For subwoofers, choose the highest frequency that removes vocal information from the sound of the subwoofer.

SETTING INPUT SENSITIVITY

- 1. Initially turn the INPUT LEVEL control(s) to minimum (counter clockwise).
- Reconnect the (-) negative lead to the vehicle's battery. Apply power to the audio system and play a dynamic music track.
- 3. On the source unit, increase the volume control to 3/4 volume. Slowly increase the INPUT LEVEL control(s) toward three o'clock until you hear slight distortion in the music. Then reduce the INPUT LEVEL slightly until distortion is no longer heard.

NOTE: After the source unit is on, red LEDs (on the top panel) will light, indicating the amplifier is on. If not, check the wiring, especially the remote connection from the source unit. Also refer to "Troubleshooting" on the next page.

REMOTE LEVEL CONTROL

All three GTO subwoofer

amplifiers have inputs for an optional remote level control (RLC). This will allow the amplifier's input level to be adjusted from the listening position. Connect the optional remote level control using the RJ-11 jack on the side of the amplifier. Install the control module in the front of the vehicle within easy reach of the driver. Under the dash or in the center console are both suitable locations.

SETTING THE BASS BOOST

All three GTO subwoofer amplifiers are all equipped with a bassboost control. This allows you to adjust the bass output of your system at 50Hz up to 12dB and enhance low frequency.

AUX OUTPUT

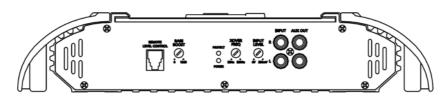
All three GTO subwoofer amplifiers are equipped with full-range outputs that can be used to connect additional amplifiers.

NOTE: When using the high-level inputs, the AUX outputs can be used to pass a line-level signal to another amplifier.

INSTALLING NEON TUBES (OPTIONAL)

- 1. Using a Phillips screwdriver, remove all screws on the amplifier's output/power end panel and set them aside.
- 2. Using a 3/32-inch Allen wrench, remove only the screws on the amplifier's (top) clear cover and set them aside.
- 3. Remove the end panel and slide the cover off. Set both parts aside.
- 4. Locate the enclosed hardware bag and remove the four clips. Each clip has a square end and a larger round end. Using a round end, press two clips onto each neon tube (e.g., Street Glow AN9 or equivalent), as shown in **Figure 13**.
- 5. For each tube, align both clips so the square ends slide onto an exposed extrusion edge, as shown in Figure 9. Do not cover any screw holes. When installed correctly, each neon tube will sit under an extrusion and not be visible when viewed from directly above.
- 6. Route each neon tube's power cable through its respective NEON hole on the end panel (see **Figure 13**).
- 7. Slide the cover back into place and reinstall its screws. Then, replace the end panel and reinstall its screws.
- 8. Finish the installation of the neon tubes as instructed in their owner's manual.

Figure 12.



Power Amplifier

INSTALLATION AND SETUP

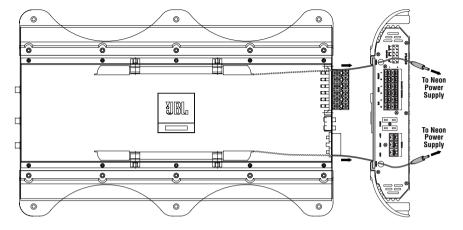
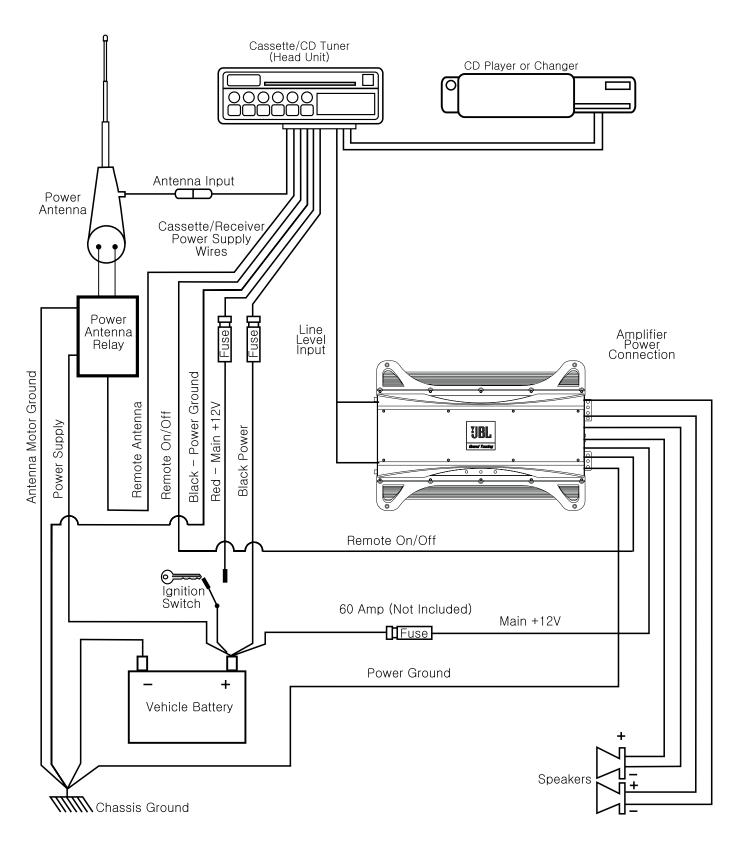


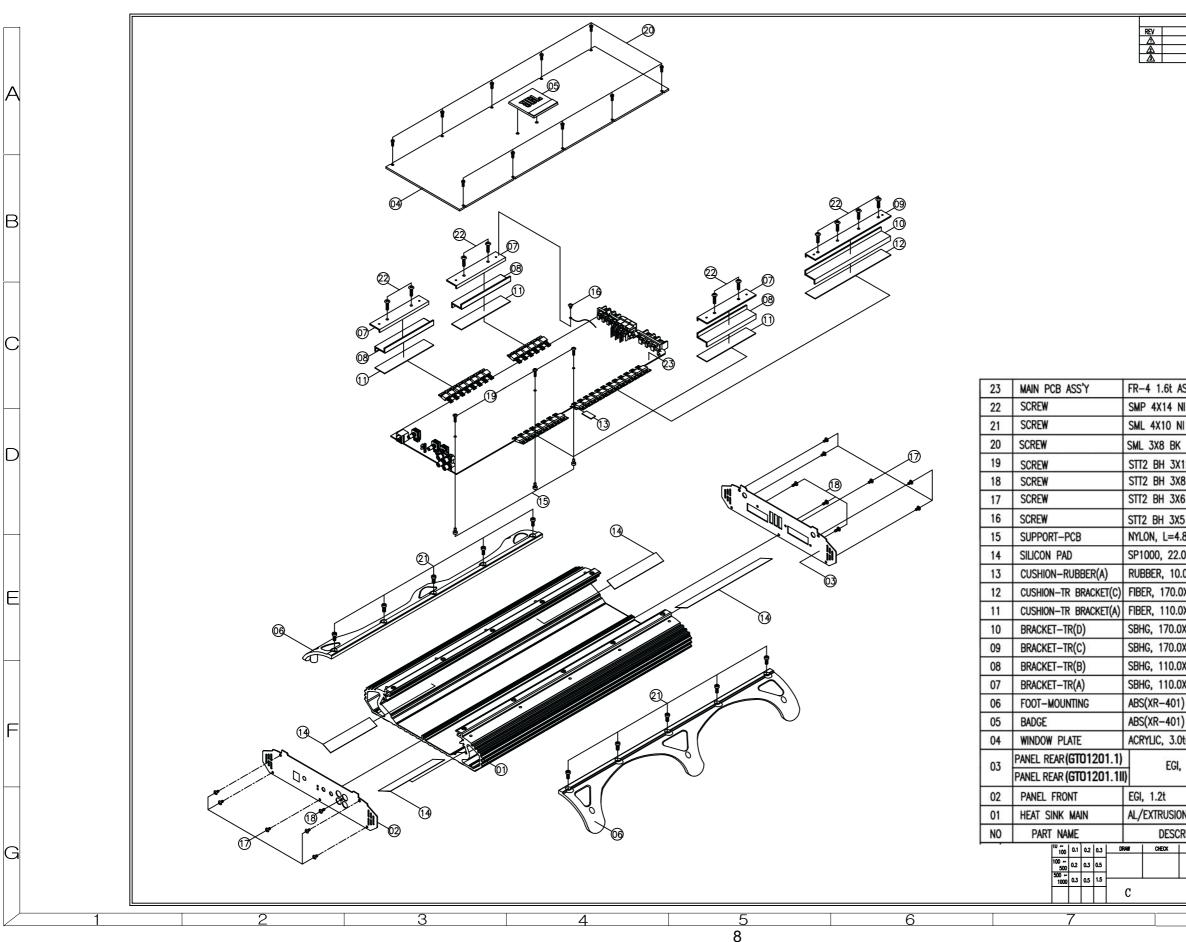
Figure 13.

TROUBLESHOOTING

SYMPTOM	LIKELY CAUSE	SOLUTION	SYMPTOM	LIKELY CAUSE	SOLUTION
No audio (POWER LED is off)	No voltage at BATT+ or REM terminals, or bad or no ground connection	Check voltages at amplifier terminals with VOM	No audio (PROTECT LED is on)	Voltage more than 16V or less than 8.5V on BATT+ connection regulator	Check vehicle charging system for defective voltage
No audio (PROTECT LED flashes every 4 seconds)	DC voltage on amplifier output	Amplifier may need service; see enclosed warranty card for service information	Distorted audio	Input sensitivity is not set properly, or amplifier or source unit is defective	Check INPUT LEVEL setting; or check speaker wires for shorts or grounds
No audio (PROTECT LED is on)	Amplifier is overheated	•		Short circuit in speaker or wire	Remove speaker leads one at a time to locate shorted speaker or wire, then repair
		impedance is within specified limits (see "Specifications" on the next page)	Music lacks "punch"	Speakers are not connected properly	Check speaker connections for proper polarity
No audio (PROTECT and POWER LEDs flash)	Voltage less than 9V on BATT+ connection	Check vehicle charging system for defective voltage regulator	-		

Typical System Configuration





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PAN-06-334AA 1 PAN-06-255AA 1 PAN-06-255AA 1 N(L=470.0mm) HEA-01-157AA 1 RIPTION CODE NO. Q'TY REMARK OREX MWE EXPLODE VIEW ODDE NO. Image: No. Image: No. Image: No.	π(L=469	.5mm)						
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IN(L=470.0mm) HEA-01-157AA 1 RIPTION CODE NO. Q'TY REMARK OREX APPRO EXPLODE VIEW 								
RIPTION CODE NO. Q'TY REMARK					-			
CHECK APPRO NAME EXPLODE VIEW).0mm)	HEA-01-	-157AA				
CODE NO. 1550E				NO.	Q'TY	RE	MARK	
., .	CHECK	APPRO		EXPLO	DE VI	EW		
8	• 9		CODE NO.				ISSUE	
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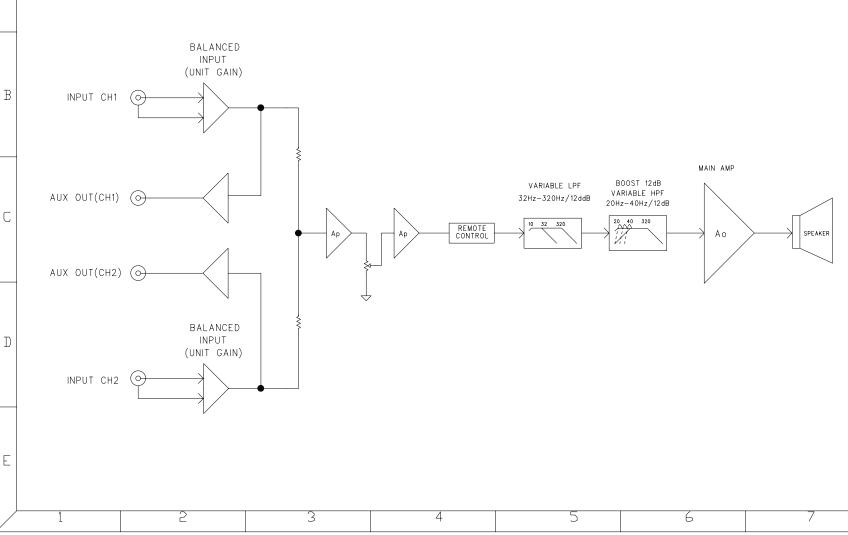
GTO 1201.1/1201.1II Mechanical Parts List

PART NO.	NOMENCATURE	DESCRIPTION	MFR PARTS	Q'TY
PART NO. HEA-0 1-157AA PAN-06-255AA PAN-06-257AA PAN-06-334AA C 0 V-22-02 1A0 BAD-2 1-004AA FOO -2 1-0 11AA BKT- 14-523A0 BKT- 11-001A0 BKT- 11-002A0 BKT- 11-005A0 BKT- 11-005A0 BKT- 11-006A0 SUB-28-00 1A0 SUB-28-00 1A0 SUB-28-002A0 SUB-28-5 19A0 SC5-NB-30050 SC5-BB-30060	NOMENCATURE HEAT SINK MAIN PANEL FRONT PANEL REAR (GTO 1201.1) PANEL REAR (GTO 1201.1) PANEL REAR (GTO 1201.11) WINDOW PLATE BADGE FOO T MOUNTING BRACKET LAMP BRACKET TR(A) BRACKET TR(B) BRACKET TR(B) BRACKET TR(C) BRACKET TR(C) BRACKET TR(D) CUSHION TR BRACKET(A) CUSHION TR BRACKET(B) CUSHION RUBBER SILICON PAD SUPPORT PCB PAPER SPACER(A) PAPER SPACER(B) SCREW	DESCRIPTION AL/EXTRUSI 0 N(L=470.0mm) EGI, 1.2t EGI, 1.2t EGI, 1.2t ACRYLIC, 3.0t (L=469.5mm) ABS(XR-40 1) ABS(XR-40 1) SB+G, 110.0x22.5x2.0t SBHG, 170.0x22.5x2.0t SBHG, 170.0x22.5x2.0t SBHG, 170.0x22.5x2.0t FIBER, 170.0x22.0x1.0t F IBER, 170.0x22.0x1.0t RUBBER, 10.0x20.0x1.6t SP 1000, 22.0x0.3t NYL 0 N, L=4.8mm F IBER, 200.0x8.0x0.5t STT2 BH 3x5 NI STT2 BH 3x6 BK		1 1 1 1
SC5-BB-30080	SCREW SCREW	STT2 BH 3x8 BK	RCA(1), TERMINAL(3) PCB + HEAT SINK	43
SC 1-BL-30080	SCREW	SML 3x8 BK	WIND OW + H/SINK	10
SC 1-NL-40 100 SC 1-NP-40 140	SCREW SCREW	SML 4x10 NI SMP 4x14 NI	FOO T + HEAT SINK BRACKET TR	$\begin{array}{c} 10 \\ 10 \end{array}$
SC4-NP-40250	SCREW	STT 1 PH 4x25 NI	ACCESS O RY	6

Power Amplifier

А

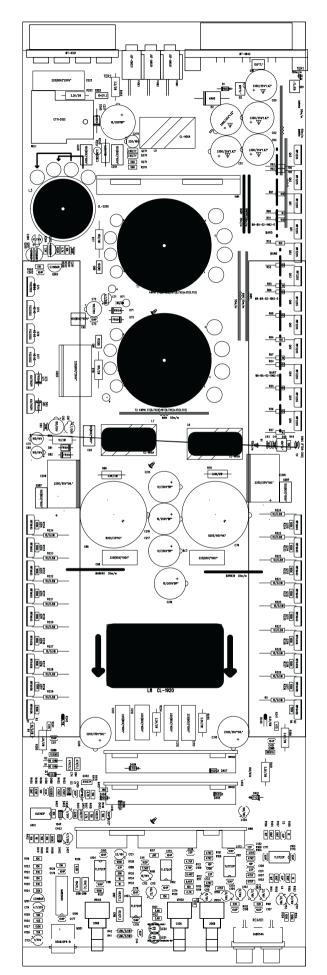
UBL GTO 1201.1/1201.1



GTO 1201.1/1201.1II BLOCK DIAGRAM

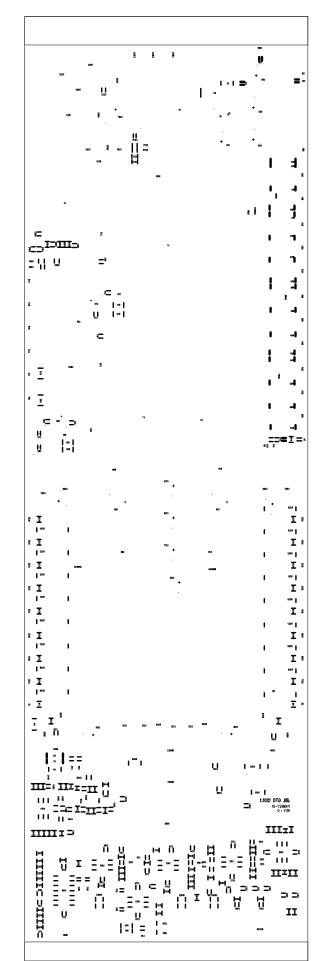
10

Printed Circuit Board (Top View)



JBL GTO 1201.1/1201.11

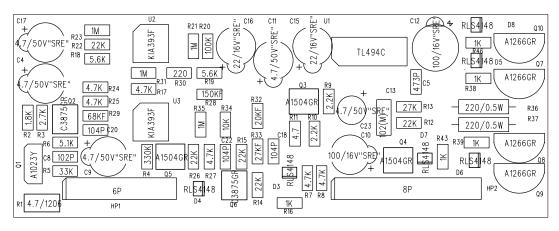
Printed Circuit Board (BOTTOM View)



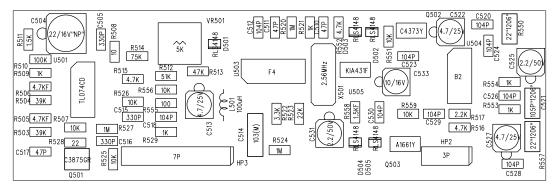
12

Printed Circuit Board (SUB TOP View)

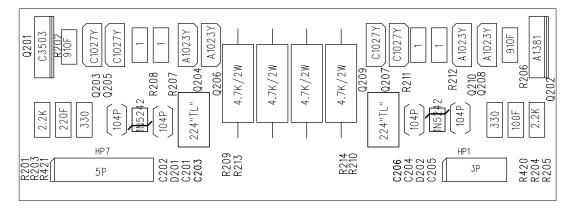
PAS308-01



PAS309-01



PAS310-01



UBL GT01201.1

PART NO. NOMENCATURE	DESCRIPTION	MFR PARTS	REF. NO	Q'TY
DIO-00-00108 DIODE	FAST RECOVERY	FR154	D71,72,73,81,82,83	6
DIO-00-00003 DIODE	RECTIFIER	1N4004	D1,260	2
DIO-00-00019 DIODE DIO-00-00006 DIODE	ZENER 1W,12V	1N4742	D401 D3.4.402.403.404.405.406.407.408	1 9
DIO-00-00006 DIODE	SWITCHING SIGNAL	1SS133/IN4148	D3,4,402,403,404,405,406,407,406	9
TRS-00-00087 TRANSISTOR	SMALL SIGNAL PNP "TO-92L"	KTA1023Y	Q402,403	2 3
TRS-00-00088 TRANSISTOR	SMALL SIGNAL NPN "TO-92L"	KTC1027Y	Q270,271,401	
TRS-00-00090 TRANSISTOR TRS-00-00110 TRANSISTOR	SMALL SIGNAL PNP "TO-92" SMALL SIGNAL NPN "TO-92"	KTA1266GR KTC3198GR	Q262 Q101,260,261,263	1
		Ricorboan		1.0
RES-00-00479 RESISTOR	METAL FILM 1/5WF	270 OHM	R405	1
RES-00-00437 RESISTOR RES-00-00482 RESISTOR	METAL FILM 1/5WF METAL FILM 1/5WF	1KF OHM 2KF OHM	R151,156 R117	2 1
RES-00-00523 RESISTOR	METAL FILM 1/5WF	4.7KF OHM	R113	1
RES-00-00575 RESISTOR	METAL FILM 1/5WF	7.5KF OHM	R118	j
RES-00-00589 RESISTOR	METAL FILM 1/5WF	9.4KF OHM	R111,112	2 4
RES-00-00402 RESISTOR	METAL FILM 1/5WF	10KF OHM	R150,152,155,157	4
RES-00-00419 RESISTOR RES-00-00537 RESISTOR	METAL FILM 1/5WF METAL FILM 1/5WF	13KF OHM 47KF OHM	R404 R103,104,105,106,107,108,109,110,402,40 3	10
RES-00-00610 RESISTOR	CARBON FILM 1/5WJ	10 OHM	R1,2	2
RES-00-00606 RESISTOR	CARBON FILM 1/5WJ	100 OHM	R51,52,53,54,55,56,61,62,63,64 R65,66,115	13
RES-00-00622 RESISTOR	CARBON FILM 1/5WJ	150 OHM	R125	1
RES-00-00712 RESISTOR	CARBON FILM 1/5WJ	470 OHM	R241,341	2 2
RES-00-00723 RESISTOR RES-00-00756 RESISTOR	CARBON FILM 1/5WJ CARBON FILM 1/5WJ	510 OHM 820 OHM	R120,122 R116	2
RES-00-00633 RESISTOR	CARBON FILM 1/5WJ	1K OHM	R50,57,60,67,133,134,153,158	8
RES-00-00598 RESISTOR	CARBON FILM 1/5WJ	1.5K OHM	R264	1
RES-00-00702 RESISTOR	CARBON FILM 1/5WJ	4.7K OHM	R114,262,414	3
RES-00-00720 RESISTOR	CARBON FILM 1/5WJ	5.6K OHM	R131,132	2
RES-00-00734 RESISTOR RES-00-00608 RESISTOR	CARBON FILM 1/5WJ CARBON FILM 1/5WJ	6.8K OHM 10K OHM	R136 R44,119,123,128,129,130,261,263,406,407	1 16
RES-00-00623 RESISTOR	CARBON FILM 1/5WJ	15K OHM	R409,410,412,416,418,419 R121,126	2
RES-00-00630 RESISTOR	CARBON FILM 1/5WJ	18K OHM	R415	1
RES-00-00658 RESISTOR	CARBON FILM 1/5WJ	22K OHM	R101,102	2
RES-00-00666 RESISTOR	CARBON FILM 1/5WJ	27K OHM	R417	1
RES-00-00680 RESISTOR	CARBON FILM 1/5WJ	30K OHM	R124	1
RES-00-00697 RESISTOR RES-00-00730 RESISTOR	CARBON FILM 1/5WJ CARBON FILM 1/5WJ	39K OHM 56K OHM	R135 R270.271	1
RES-00-00604 RESISTOR	CARBON FILM 1/5WJ	100K OHM	R3,6,138,154,159,230,231,232,233,234,	21
			R236,237,238,330,331,332,333,334,336,337 R338	-1
RES-00-00620 RESISTOR	CARBON FILM 1/5WJ	150K OHM	R127,137	2
RES-00-00654 RESISTOR	CARBON FILM 1/5WJ	220K OHM	R413	1
RES-00-00727 RESISTOR	CARBON FILM 1/5WJ	560K OHM	R408	1
RES-00-00755 RESISTOR	CARBON FILM 1/5WJ	820K OHM	R260	1
RES-00-00635 RESISTOR	CARBON FILM 1/5WJ	1M OHM	R411	J
RES-00-00018 RESISTOR	METAL FILM 1/2WJ	10 OHM	R4,5,220,221,222,223,224,227,228,229 R320,321,322,323,324,327,328,329	18
RES-00-00014 RESISTOR	METAL FILM 1/2WJ	1.8K	R41,42	2
IND-00-00025 INDUCTOR	LAL02TB1R0K AXIAL TYPE 5%	1uH	L101,102	2
CEC-00-00077 CAPACITOR CEC-00-00090 CAPACITOR	CERAMIC DISK 50V "NPO" CERAMIC DISK 50V "NPO"	10pF 22pF	C105,106 C4,5,131,132,133,134	2 6
CEC-00-00103 CAPACITOR	CERAMIC DISK 50V "NPO"	47pF	C120	1
CEC-00-00101 CAPACITOR	CERAMIC DISK 50V	470pF	C109	1
CEC-00-00074 CAPACITOR	CERAMIC DISK 50V	102pF	C107,108,111,406	4
CEC-00-00075 CAPACITOR	CERAMIC DISK 50V	103pF	C44	1
CEC-00-00076 CAPACITOR	CERAMIC DISK 50V	104pF	C1,41,42,73,83,170,171,172,173,174 C175,176,177,178,179,180,181,211,261,262 C401 403	22
CEC-00-00152 CAPACITOR	CERAMIC DISK 50V "MLCC"	102pF	C401,403 C21,701,C704	3
CEC-00-00124 CAPACITOR	CERAMIC DISK 50V "MLCC"	104pF	C409,410,702,703	4
ELC-00-00153 CAPACITOR	ELECTROLYTIC"SMS"	1uF/50V	C113,408	2

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PART NO.	NOMENCATURE	DESCRIPTION	MFR PARTS	REF. NO	Q'TY
ELC-00-0012	5 CAPACITOR 7 CAPACITOR 0 CAPACITOR 3 CAPACITOR	ELECTROLYTIC"SMS" ELECTROLYTIC"SMS" ELECTROLYTIC"SMS" ELECTROLYTIC"SMS" ELECTROLYTIC"SMS" ELECTROLYTIC"SMS"	4.7uF/50V 10uF/16V 22uF/16V 47uF/16V 100uF/16V 100uF/16V	C71,81,114,407 C110,112 C101,102,103,104,115,121,151,152 C260 C75,85,404 C72,82	4 2 8 1 3 2
ELC-00-0013	2 CAPACITOR	ELECTROLYTIC"SMS"	220uF/16V	C270	1
	0 CAPACITOR	MYLAR 5% 100V	102J	C90,91,405	3
	9 CAPACITOR	MYLAR 5% 100V	103J	C280,380	2
MYC-00-0015 MYC-00-0008 MYC-00-0006	1 CAPACITOR 7 CAPACITOR 3 CAPACITOR 6 CAPACITOR 5 CAPACITOR	MYLAR 5% 63V "TL TYPE" MYLAR 5% 63V "TL TYPE" MYLAR 5% 63V "TL TYPE" MYLAR 5% 63V "TL TYPE" MYLAR 5% 63V "TL TYPE"	683J 823J 104J 474J 105J	C117 C116 C118,119,222 C74,84 C19,43	1 1 3 2 2
ICO-00-00003) I.C	DUAL OPAMP DIP-08	TL072CP	U101,102,103,104,105	5
ICO-00-00170		VOLUME IC DIP-16	NJM 13600D	U106	1
ICO-00-00095		COMPORATOR IC DIP-08	KIA393P	U401	1
ICO-00-00157	1777 (B. 73)	VOTAGE REGULATOR +12V 1A	KIA7812PI	U71	1
ICO-00-00162		VOTAGE REGULATOR -12V 1A	KIA7912PI	U81	1
FET-00-00001	F.E.T	N-CH POWER FET "TO-220"	IRF3205	Q51,52,53,54,55,56,61,62,63,64 Q65,66	12
FET-00-00046		N-CH POWER FET "TO-220"	IRF640N	Q1,2,217,218,219,317,318,319	8
FET-00-0002		P-CH POWER MOSFET	IRF9640	Q211,212,213,214,215,311,312,313,314,31	510
DIO-00-00152	가 이 가지 않는 것이 좋아.	FAST RECOVERY	YG225D2	D74,75,76,77	4
DIO-00-00177		FAST RECOVERY	6A60	D2	1
RES-00-0111		MOR-S 2WJ	2.2 OHM	R253	1
RES-00-0084		MOR-S 2WJ	10 OHM	R71,81	2
RES-00-0084	3 RESISTOR	MOR-S 2WJ	100 OHM	R77,78	2
RES-00-0085		MOR-S 2WJ	2.2K OHM	R250,251,252,254,255,280,380,401	8
RES-00-0109		MOR-S 2WJ	3.9K OHM	R76,86	2
RES-00-0094	7 RESISTOR	SHUNT RESISTOR 5WJ (3P)	0.01 OHM	R240,340	2
ELC-00-0016	7 CAPACITOR	ELECTROLYTIC "SMS"	100/63V	C402	1
ELC-00-00010	CAPACITOR	ELECTROLYTIC"BP"	10uF/200V	C215,216,217,218,221	5
ELC-00-0018	7 CAPACITOR	ELECTROLYTIC"SHL"	2200/50V	C208,210,308,310	4
	6 CAPACITOR	ELECTROLYTIC "LXZ"	3300uF/25V	C50,51,52,53,54	5
	8 CAPACITOR	ELECTROLYTIC "HC"	8200/50V"HC"	C76,86	2
MYC-00000	0 CAPACITOR	MYLAR 10% 100V "BOX TYPE"	105K	C92,93,207,219,220,307	6
	7 CAPACITOR	MYLAR 10% 100V "BOX TYPE"	225K	C78,88,212,213,312,313	6
	0 CAPACITOR	MYLAR 10% 250V "BOX TYPE"	225K	C223,820	2
COI-00-00086	INDUCTOR	DRUM COIL	CL-900A	L6,7,9	3
COI-00-00073		DRUM COIL	CL-2200	L3	1
COI-00-00112		DRUM COIL	CL-1920	L8	1
COR-TF-0039	2 CORE	MAGNETIC	44 PHI	T1,T2 44PHI 3T(0.7X22):10T(0.7X5):3T(0.7X	12

PART NO.	OMENCATURE	DESCRIPTION	MFR PARTS	REF. NO	Q'TY
		POWER TERMINAL SPEAKER TERMINAL	WT−9842 WT−9321	TER1 TER2	1 1
HOD-00-00006 FUS-AT-00008		PCB TYPE AUTO FUSE	JSF-08031 40A	FUSE1,2,3 SET(3)+ACCESSORY(3)	3 6
JAC-00-00043	RCA JACK	GOLD PLATE	DJB-554A	RCA101	1
JUP-00-00003 JUP-00-00005 JUP-00-00028	JUMPER JUMPER JUMPER	BAR JUMP BAR JUMPER MA-BA-02-1962-0	35m/m 55 m/m 4P JUMPER	BAR1,639,640,903 BAR2,3,4,901.902 BAR5,6,7	4 5 3
JAC-00-00050	MODULAR	4P,BLACK	DEK623PCB4-B	MOD1	1
REL-00-00008	RELAY	DC 30A 12V	CT11-D12S	REL1	1
THS-00-00013	THERMISTOR	FTD5-350	50K	тн	1
VOL-00-00335 VOL-00-00336 WIR-00-00018 WIR-00-00017 WIR-00-00016 DIO-00-00278 DIO-00-00303 TUB-00-00112 TUB-00-00008 TUB-00-00009 TUB-00-00006	VOLUME GND WIRE GND WIRE LED LED HEAT TUBE TEFLON TUBE TEFLON TUBE	0.7 PHI	15B20K 15C50K 120m/m 80m/m HNRD-3401L TOL-30aSBaCAa 10m/m 10 m/m 15 m/m 20 m/m	VR101,103 VR102 W702 W1.W701 W2 LED2 LED1 W701,702 TH LED1 LED1 LED2	2 1 2 1 1 2 2 2 2
ICO-00-00021 ICO-00-00094	I.C I.C	SMD PWM SMD "FLP-8"	TL494CD KIA393F	U1 U2,3	1 2
TRS-00-00098	TRANSISTOR	SMALL SIGNAL PNP,SOT-23	KTA1504GR	Q3,4,5	3
TRS-00-00113	TRANSISTOR	SMALL SIGNAL NPN, SOT-23	KTC3875GR	Q2,6	2
DIO-00-00117	DIODE	SWITCHING SIGNAL	RLS4148	D3,4,5,6,7,8	6
RES-08-00035 RES-08-00048 RES-08-00111 RES-08-00021	RESISTOR RESISTOR RESISTOR RESISTOR	SMD "0805"1/8WF SMD "0805"1/8WF SMD "0805"1/8WF SMD "0805"1/8WF	20KF OHM 27KF OHM 68KF OHM 150KF OHM	R32 R33 R29 R28	1 1 1 1
RES-08-00193 RES-08-00163 RES-08-00148 RES-08-00129 RES-08-00151 RES-08-00156		SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ	4.7 OHM 220 OHM 1K OHM 1.8K OHM 2.2K OHM 2.7K OHM	R11 R30 R16,38,39,43,46 R2 R9,10 R3	1 5 1 2 1
RES-08-00191 RES-08-00200 RES-08-00201 RES-08-00132	RESISTOR RESISTOR RESISTOR RESISTOR	SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ	4.7K OHM 5.1K OHM 5.6K OHM 10K OHM	R7,8,17,24,25,27 R6 R18,19 R34	6 1 2 1
RES-08-00164 RES-08-00170 RES-08-00182 RES-08-00130 RES-08-00180 RES-08-00149 RES-12-00189	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "0805"1/8WJ SMD "1206"1/6WJ	22K OHM 27K OHM 33K OHM 100K OHM 330K OHM 1M OHM 4.7 OHM	R12,14,15,22,26 R13 R5 R20 R4 R21,23,31,35 R1	5 1 1 1 4 1

CEC-00-00000 CAPACITOR CHIP'0805' SW 5% 102P CB 1 CEC-00-00000 CAPACITOR CHIP'0805' SW 5% 104P C14,18,20,22 4 CEC-00-00000 TRANSISTOR MALL SICAL,PNP KTA1262F 01 1 TR3-00-00007 TRANSISTOR MALL SICAL,PNP KTA1262F 07,8,9,10 4 RES-00-00038 RESISTOR METAL FILM 1/2W1 220 OHM R8,37 2 ELC-00-00208 CAPACITOR ELCTROLYTIC'SRE' 7,0F50V C16,15 2 ELC-00-00208 CAPACITOR ELCTROLYTIC'SRE' 220 FIAW C16,15 2 ELC-00-00208 HEADER OYNE PRESIDE OYNE	PART NO.	OMENCATURE	DESCRIPTION	MFR PARTS	REF. NO	Q'TY
CEC-06-0004 CAPACITOR CHIP00695 'S0V 5% 104P C14.18.20.22 4 TRS-00-00035 TRANSISTOR SNALL SIGNAL PNP KTA1028GR Q1 1 TRS-00-00036 RESISTOR SNALL SIGNAL PNP KTA1028GR Q1,01 1 CL-00-00250 CAPACITOR ELCTROLVTIC/SRE' 22,07 C4,91117,23 2 ELC-00-00262 CAPACITOR ELCTROLVTIC/SRE' 22,07 C13 1 HED-00-01000 CAPACITOR HICADER C-TYPE ØP(R-ANGLE) TX207-030C-09P HP1 1 HED-00-01002 CAPACITOR MTVAR 3% 100V TX07CD US01 1 HED-00-01002 CAPACITOR MTVAR 3% 100V TX07CD US01 1 HED-00-01002 LC SMM QUAD OF AMP 'S0-14" TX07CD US03 1 ICO-00-00546 LC SMM QUAD OF AMP 'S0-14" TX1661Y QS03 1 ICO-00-00117 TANSISTOR HIGH CURRENT NP, S0T-89 KTA1637Y QS02 2 1 TRS-00-00117 TRANSISTOR <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>						1
TRS-00-00007 TRANSISTOR SMALL SIGNAL PNP KTA1289GR Q1 RES-00-00008 RESISTOR SMALL SIGNAL PNP KTA1280GR Q2,8,10 2 RES-00-00250 CAPACITOR ELCTOLOTIC'SRE' 4,74/F6V C4,9,11,17,23 2 ELC-00-00253 CAPACITOR ELCTROLTIC'SRE' 224/F1V C13,1 1 MC0-00-00263 CAPACITOR ELCTROLTIC'SRE' 220/F1V C13,1 1 MC0-00-00263 CAPACITOR HELCTROLTIC'SRE' 200/F16V C13,1 1 MC0-00-00263 CAPACITOR MIRADER C-TYPE BP(R-ANGEL) TM2007-000-00P HP1 1 MIR-00-00027 WIRE MARCIN'S SOT-89 KTA1661Y US01 1 UCO-00-00054 I.G 200/F16 C74372 Q502 1 UCO-00-0017 ILODE CMTCHINE SIGNAL RESISTOR SMAL SIGNAL NPL SOT-29 KTC4373Y Q502 1 TRS-00-0017 RIOS SMAL SIGNAL NPL SOT-29 KTC4373Y Q502 1 TRS-00-0017 RESISTOR						4
RES-00-00039 RESISTOR METAL_FILM 1/2WJ 220 DHM R36,37 2 ELC-00-00263 CAPACITOR ELECTROL/TIC/SRE* 4/JuF/60V C4,9,11,17,23 5 ELC-00-00243 CAPACITOR ELECTROL/TIC/SRE* 100/FIEV C10,12 2 MC-00-0020 CAPACITOR ELECTROL/TIC/SRE* 100/FIEV C10,12 2 MC-00-002043 CAPACITOR PIN HEADER 0-TYPE B(PIA-ANGLE) TM2007-C030-08P HP1 1 HED-00-002064 HCADER PIN PIN HEADER 0-TYPE B(PIA-ANGLE) TM2007-C030-08P HP1 1 MR-00-00009 TRANSISTOR HIGH CURRENT PMP.SOT-89 KTA161Y US01 1 ICO-00-00115 TRANSISTOR HIGH CURRENT PMP.SOT-89 KTC4373Y G502 1 IRS-00-00115 TRANSISTOR MIGH UGRENT PMP.SOT-89 KTC4373Y G502 1 IRS-00-00115 TRANSISTOR MIGH UGRENT PMP.SOT-89 KTC46975GR G501 1 IRS-00-00115 TRANSISTOR MIGH UGRENT PMP.SOT-89 KTC46975GR G501 1						
ELC-00-00250 CAPACITOR ELECTROLYTIC'SRE' 4.7µ/F/SW C4.9.11,17,23 5 ELC-00-00243 CAPACITOR ELECTROLYTIC'SRE' 100µ/F/16V C10,12 2 PUC-00-00264 CAPACITOR ELECTROLYTIC'SRE' 100µ/F/16V C10,12 2 PUC-00-00264 CAPACITOR PULEDER PIN PIN HEADER C-TYPE EPIR-ANGLE) TW2007-0360-08P PIP1 1 PUC-00-00064 HEADER PIN PIN HEADER C-TYPE EPIR-ANGLE) TW2007-0360-08P PIP1 1 PUC-00-00068 ILC SMO DUAD OF AWP 'SO-14" TU74CD US04 1 ICC-00-00054 ILC COMPARATOR 'SO-14" B2 US04 1 ICC-00-00117 TRANSISTOR HIGH CURRENT PIN,SOT-89 KTC4375GR G602 1 TIS-00-00117 TRANSISTOR SMO 10805'1/SWF 1.5KF CHM R553 1 RES-08-00305 RESISTOR SMO 10805'1/SWF 1.5KF CHM R505,06 1 RES-08-00149 RESISTOR SMO 10805'1/SWF 1.5KF CHM R508,00 1	TRS-00-00090	TRANSISTOR	SMALL SIGNAL PNP	KTA1266GR	Q7,8,9,10	4
ELC-00-00641 CAPACITOR ELECTROL/TICSRE" 228/f16V C15,16 2 MTC-00-00202 CAPACITOR MYLAB 5% 100V 102J C13 1 HED-00-01001 HEADER PIN PIN HEADER C-TYPE 8P(R-ANGLE) TM2007-03G-08P HP1 1 HED-00-00028 HEADER PIN PIN HEADER C-TYPE 8P(R-ANGLE) TM2007-03G-08P HP1 1 HED-00-00028 HEADER PIN PIN HEADER C-TYPE 8P(R-ANGLE) TM2007-03G-08P HP1 1 HED-00-00005 IC SM0 QUAD CP AMP 'S0-14" TU74CD US01 1 ICO-00-00058 IC OUPRATCR 'S0-14" B2 US04 1 ICO-00-00117 TRANSISTOR HIGH CURRENT MPR,S0T-89 KTC4373Y Q502 1 ITRS-00-00117 TRANSISTOR HIGH CURRENT MPR,S0T-89 KTC4373Y Q502 1 ICO-00-00117 TRANSISTOR MICHING SIGNAL RLS4146 D501,502,503,504,505 5 RES-08-00027 RESISTOR SM0 '0805'1/8WF 1.5KF OHM R558 1 RES-08-000			VERSING STORES STORES IN STORES			
ELC-00-00243 CAPACITOR ELCETROLYTIC'SRE" 100WF/16V C131 1 HEO-00-00100 HEADER PIN PIN HEADER C-TYPE BP(R-ANGLE) TM2007-093-06P HP1 1 HEO-00-00007 WIRE NM HEADER C-TYPE BP(R-ANGLE) TM207-093-06P HP2 1 WIR-00-00008 IC 2.5 WH QLAD OP AMP 'SO-14" TU74CD U501 1 ICO-00-00006 IC 2.5 WHUNTIC, SOT-89 KTA1661Y U503 1 ICO-00-00054 IC OMPARATOR 'SO-14" E2 U504 1 ICO-00-00107 TRANSISTOR HIGH CURRENT NPLSOT-89 KTA1661Y Q503 1 ITRS-00-00115 TRANSISTOR HIGH CURRENT NPLSOT-89 KTC4373F Q501 1 ITRS-00-00115 TRANSISTOR WICHING SIGNAL RLS414B D501,502,503,504,505 5 ITRS-00-00115 TRANSISTOR SMD '9805'1/8WL 2 OHM R555,506 2 IRS-00-00137 RESISTOR SMD '9805'1/8WL 2 OHM R552,51,51,522,553,554 1 RES-00-0138 <td></td> <td></td> <td></td> <td></td> <td></td> <td>5</td>						5
MYC-00-0020 CAPACITOR MYLAR 5% 100V 102.1 C13 1 HED-00-0100 HEADER PIN PIN HEADER C-TYPE BR(R-ANGLE) TM2007-050-08P HP1 1 HED-00-0028 HEADER PIN PIN HEADER C-TYPE BR(R-ANGLE) TM2007-050-08P HP2 1 ICO-00-00005 LC SMD QUAD OP AMP 'SO-14" TM207-050-08P HP2 1 ICO-00-00054 LC DIVIDER CO-00-06054 LC DIVIDER 205 1 ICO-00-0017 TRANSISTOR HIGH CURRENT PIN,SCT-89 KTA1661Y G503 1 ICO-00-0017 TRANSISTOR BIGH CURRENT NPN,SCT-89 KTC4737Y G502 1 ITRS-00-00115 TRANSISTOR SMALL SIGNAL RLS4148 D501,502,503,504,505 5 ICS-00-00007 RESISTOR SMD '00805'1/8WL 1 RC58 1 IRS-00-00115 TRANSISTOR SMD '00805'1/8WL 1 OHM R558 1 IRS-00-0017 RESISTOR SMD '00805'1/8WL 1 NC585,506 1				영상 것, 것 것 것 같아요		2
HED-00-0028 HEADER PIN PIN HEADER C-TYPE BP(R-ANGLE) TM207-090-089 HP2 1 ICO-00-00005 I.C SMD QUAD OP AMP 'SO-14" TU0740D U501 1 ICO-00-0005 I.C SMD QUAD OP AMP 'SO-14" TU0740D U501 1 ICO-00-00054 I.C DIVIDER SVS SHUTLO, SOT-89 KI4431F U505 1 ICO-00-00115 TRANSISTOR HIGH CURRENT PNP, SOT-89 KTC4373Y Q502 1 TRS-00-00115 TRANSISTOR BIGH CURRENT NPN, SOT-89 KTC4373Y Q502 1 TRS-00-00117 TDIODE SWD '10805'1/8WF 1.5KC OHM R505 1 RES-08-00007 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00135 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00136 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00137 RESISTOR </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>						1
WIR-O-00027 WIRE CO-00-00058 AWG422BK 20m/m 1 ICO-00-00058 IC 2.5/V SHUNT IC, SOT-89 KIA431F U503 1 ICO-00-00054 IC DIVIDER DIVIDER V503 1 ICO-00-0054 IC COMPARATOR 'SO-14" B2 U504 1 ICO-00-00197 TRANSISTOR HIGH CURRENT PNP,SOT-89 KTA1661Y Q503 1 TRB-00-00115 TRANSISTOR HIGH CURRENT PNP,SOT-89 KTC4373Y Q502 1 TRB-00-00117 DIOOE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 5 RES-08-0005 RESISTOR SM0 '0805'1/8WF 1.5KF OHM R558 1 RES-08-00135 RESISTOR SM0 '0805'1/8WJ 10 OHM R505,506 2 RES-08-0135 RESISTOR SM0 '0805'1/8WJ 10 HK R528 1 RES-08-0137 RESISTOR SM0 '0805'1/8WJ 10 HK R50,51,53,554 5 RES-08-0128 RESISTOR SM0 '0	HED-00-00100	HEADER PIN				1
ICO-000005 I.C. SMO QUAD OP AMP 'SO-14" TL074CD US05 ICO-00-00054 I.C. Z5V SHIUTI C, SOT-89 HA31F US05 1 ICO-00-00546 I.C. DOMDERI TC, SOT-89 KTA1661Y US05 1 ICO-00-00157 TRANSISTOR HIGH CURRENT PNP,SOT-89 KTA1661Y Q603 1 ITRS-00-00113 TRANSISTOR HIGH CURRENT NPN,SOT-23 KTC3875GR Q601 1 DIO-00-00117 DIOCE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 1 RES-08-00007 RESISTOR SMO '0805'1/8WF 1.5KF OHM R505,506 1 RES-08-00118 RESISTOR SMO '0805'1/8WJ 10 OHM R502,503,554 1 RES-08-0118 RESISTOR SMO '0805'1/8WJ 12 OHM R525 1 RES-08-0118 RESISTOR SMO '0805'1/8WJ 12 OHM R525 1 RES-08-0118 RESISTOR SMO '0805'1/8WJ 22 OHM R51 1 RES-08-0118 RESISTOR SMO '0805'1/8WJ					HP2	1
LCO-00-00099 LC 2.5V SHUNT IC , SOT-89 KIA431F U503 1 LCO-00-0054 LC DWDER COMPARATOR 'SO-14'' B2 U504 1 TRS-00-00197 TRANSISTOR HIGH CURRENT PNP,SOT-89 KTA1661Y Q503 1 TRS-00-00117 TRANSISTOR HIGH CURRENT PNP,SOT-89 KTC4373Y Q502 1 TRS-00-00117 DIODE SWITCHING SIGNAL NPN,SOT-23 KTC4373Y Q502 1 TRS-00-0015 RESISTOR SMO '0805'1/8WF 1.5KF OHM R558 1 RES-08-00135 RESISTOR SMO '0805'1/8WF 4.7KF OHM R552 1 RES-08-0135 RESISTOR SMO '0805'1/8WJ 2 OHM R528 1 RES-08-0134 RESISTOR SMO '0805'1/8WJ 10 OHM R509,521,529,553,554 5 RES-08-0128 RESISTOR SMO '0805'1/8WJ 12 OHM R528 1 RES-08-0128 RESISTOR SMO '0805'1/8WJ 10 OHM R552,555,556,559 6 RES-08-0121 RESISTOR </td <td></td> <td></td> <td></td> <td></td> <td>11504</td> <td>1</td>					11504	1
ICO-000054 I.C DIVDER F4 U503 1 ICO-00-00167 TRANSISTOR HIGH CURRENT PNP,SOT-88 KTA1661Y Q503 1 TRS-00-00115 TRANSISTOR HIGH CURRENT PNP,SOT-88 KTC4373Y Q502 1 TRS-00-00115 TRANSISTOR HIGH CURRENT PNP,SOT-89 KTC4373Y Q502 1 DIO-00-00117 DIODE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 5 RES-08-00007 RESISTOR SMD '0805''/8WF 1.5KF CHM R558 1 RES-08-00138 RESISTOR SMD '0805''/8WF 1.5KF CHM R558 1 RES-08-00138 RESISTOR SMD '0805''/8WJ 10 OHM R508 1 RES-08-00138 RESISTOR SMD '0805''/8WJ 10 OHM R555 1 RES-08-00138 RESISTOR SMD '0805''/8WJ 10 OHM R552 1 RES-08-0131 RESISTOR SMD '0805''/8WJ 15 KC HM R511 1 RES-08-0132 RESISTOR SMD '0805''/8WJ						1
TRS-00-00197 TRANSISTOR HIGH CURRENT PNP,SOT-69 KTA 1661Y Q503 1 TRS-00-00113 TRANSISTOR HIGH CURRENT PNP,SOT-69 KTCA373Y Q502 1 TRS-00-00113 TRANSISTOR SMALL SIGNAL NPN,SOT-23 KTCA373Y Q501 1 DIO-00-00117 DIOE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 5 RES-08-00007 RESISTOR SMD '0805'1/8WJ 4.7KF OHM R558 1 RES-08-00135 RESISTOR SMD '0805'1/8WJ 2.0HM R508,506 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 2.0HM R508,51 1 RES-08-00131 RESISTOR SMD '0805'1/8WJ 1.0 OHM R508,51 1 RES-08-0131 RESISTOR SMD '0805'1/8WJ 1.0 OHM R508,51,52,52,553,554 5 RES-08-0131 RESISTOR SMD '0805'1/8WJ 2.2K OHM R517 1 RES-08-0131 RESISTOR SMD '0805'1/8WJ 3.3K OHM R52,1,529,553,554 5 RES-08-0131					U503	i
TRS-00-00115 TRANSISTOR HIGH CURRENT NPN,SOT-23 KTC4373Y KTC3875GR Q502 Q501 1 DIO-00-00117 DIODE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 5 RES-08-00005 RESISTOR SMD '0805'1/8WF 1.5KF OHM R558 1 RES-08-00138 RESISTOR SMD '0805'1/8WF 4.7KF OHM R505,506 2 RES-08-00138 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00138 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-0131 RESISTOR SMD '0805'1/8WJ 12 OHM R558 1 RES-08-0121 RESISTOR SMD '0805'1/8WJ 12 OHM R559 1 RES-08-0121 RESISTOR SMD '0805'1/8WJ 1.5K OHM R511 1 RES-08-0121 RESISTOR SMD '0805'1/8WJ 2.2K OHM R512 1 RES-08-0121 RESISTOR SMD '0805'1/8WJ 3.3K OHM R512 1 RES-08-0121 RESISTOR SMD '0805'1/	ICO-00-00546	I.C	COMPARATOR "SO-14"	B2	U504	1
TRS-00-00113 TRANSISTOR SMALL SIGNAL NPN,SOT-23 KTC3875GR Q501 1 DIO-00-00117 DIODE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 5 RES-08-00005 RESISTOR SMD '0805'1/8WF 1.5KF OHM R508 1 RES-08-00135 RESISTOR SMD '0805'1/8WU 10 OHM R508 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00138 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00126 RESISTOR SMD '0805'1/8WJ 10 OHM R552 1 RES-08-00126 RESISTOR SMD '0805'1/8WJ 1K OHM R501,521,529,553,554 5 RES-08-00126 RESISTOR SMD '0805'1/8WJ 2,2K OHM R511 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 2,2K OHM R522 1 RES-08-00129 RESISTOR SMD '0805'1/8WJ 2,2K OHM R523,528,551,556,559 6 RES-08-00128 RESISTOR	TRS-00-00197	TRANSISTOR	HIGH CURRENT PNP,SOT-89	KTA1661Y	Q503	1
TRS-00-00113 TRANSISTOR SMALL SIGNAL NPN,SOT-23 KTC3875GR Q501 1 DIO-00-00117 DIODE SWITCHING SIGNAL RLS4148 D501,502,503,504,505 5 RES-08-00005 RESISTOR SMD '0805'1/8WF 1.5KF OHM R508 1 RES-08-00135 RESISTOR SMD '0805'1/8WU 10 OHM R508 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00138 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00126 RESISTOR SMD '0805'1/8WJ 10 OHM R552 1 RES-08-00126 RESISTOR SMD '0805'1/8WJ 1K OHM R501,521,529,553,554 5 RES-08-00126 RESISTOR SMD '0805'1/8WJ 2,2K OHM R511 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 2,2K OHM R522 1 RES-08-00129 RESISTOR SMD '0805'1/8WJ 2,2K OHM R523,528,551,556,559 6 RES-08-00128 RESISTOR	TRS-00-00115	TRANSISTOR	HIGH CURRENT NPN.SOT-89	KTC4373Y	Q502	1
RES-08-00005 RESISTOR SMD '0805'1/8WF 1.5KF OHM R558 RES-08-00077 RESISTOR SMD '0805'1/8WJ 10 OHM R505,506 1 RES-08-00135 RESISTOR SMD '0805'1/8WJ 10 OHM R505 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 22 OHM R528 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 10 OHM R555 1 RES-08-00137 RESISTOR SMD '0805'1/8WJ 10 OHM R555 1 RES-08-00158 RESISTOR SMD '0805'1/8WJ 2.2K OHM R511 1 RES-08-00151 RESISTOR SMD '0805'1/8WJ 2.2K OHM R512 1 RES-08-00132 RESISTOR SMD '0805'1/8WJ 4.7K OHM R503,504 2 RES-08-00138 RESISTOR SMD '0805'1/8WJ 2.2K OHM R523 3 RES-08-00138 RESISTOR SMD '0805'1/8WJ 3K OHM R503,504 2 RES-08-00137 RESISTOR SMD '0805'1/8WJ 3K OHM R50						1
RES-08-00077 RESISTOR SMD '0805'1/8WF 4.7KF OHM R505,506 2 RES-08-00135 RESISTOR SMD '0805'1/8WJ 10 OHM R553 1 RES-08-00165 RESISTOR SMD '0805'1/8WJ 100 OHM R555 1 RES-08-00165 RESISTOR SMD '0805'1/8WJ 1K OHM R555 1 RES-08-00174 RESISTOR SMD '0805'1/8WJ 1K OHM R517 1 RES-08-00151 RESISTOR SMD '0805'1/8WJ 3.5K OHM R517 1 RES-08-00191 RESISTOR SMD '0805'1/8WJ 3.3K OHM R522 1 RES-08-00132 RESISTOR SMD '0805'1/8WJ 3.3K OHM R523 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 22K OHM R523 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 22K OHM R533 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 35K OHM R513 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 35K OHM	DIO-00-00117	DIODE	SWITCHING SIGNAL	RLS4148	D501,502,503,504,505	5
RES-08-00135 RESISTOR SMD '0805'1/8WJ 10 OHM R508 1 RES-08-00135 RESISTOR SMD '0805'1/8WJ 10 OHM R528 1 RES-08-00134 RESISTOR SMD '0805'1/8WJ 100 OHM R528 1 RES-08-00136 RESISTOR SMD '0805'1/8WJ 100 OHM R528 1 RES-08-00126 RESISTOR SMD '0805'1/8WJ 1.5K OHM R511 1 RES-08-00124 RESISTOR SMD '0805'1/8WJ 2.2K OHM R512 1 RES-08-00132 RESISTOR SMD '0805'1/8WJ 3.3K OHM R522 3 RES-08-00132 RESISTOR SMD '0805'1/8WJ 3.3K OHM R523 3 RES-08-00134 RESISTOR SMD '0805'1/8WJ 29K OHM R523 1 RES-08-00134 RESISTOR SMD '0805'1/8WJ 39K OHM R53,504 2 RES-08-00136 RESISTOR SMD '0805'1/8WJ 39K OHM R513 1 RES-08-00138 RESISTOR SMD '0805'1/8WJ 100K OHM			10 10 10			
RES-08-00166 RESISTOR SMD '0805'1/8WJ 100 OHM R528 1 RES-08-00131 RESISTOR SMD '0805'1/8WJ 100 OHM R555 1 RES-08-00148 RESISTOR SMD '0805'1/8WJ 1.5K OHM R511 1 RES-08-00126 RESISTOR SMD '0805'1/8WJ 1.5K OHM R517 1 RES-08-00127 RESISTOR SMD '0805'1/8WJ 2.2K OHM R517 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 3.3K OHM R522 1 RES-08-00132 RESISTOR SMD '0805'1/8WJ 4.7K OHM R515,516,552 3 RES-08-00164 RESISTOR SMD '0805'1/8WJ 22K OHM R523 1 RES-08-00177 RESISTOR SMD '0805'1/8WJ 38K OHM R535.564 2 RES-08-00187 RESISTOR SMD '0805'1/8WJ 37K OHM R514 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 51K OHM R514 1 RES-08-00147 RESISTOR SMD '0805'1/8WJ 100	RES-08-00077	RESISTOR	SMD "0805"1/8WF	4.7KF OHM	R505,506	2
RES-08-00131 RESISTOR SMD '0805'1/8WJ 100 CHM R555 1 RES-08-00148 RESISTOR SMD '0805'1/8WJ 1K CHM R509.521,529,553,554 5 RES-08-00128 RESISTOR SMD '0805'1/8WJ 1.5K CHM R511 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 2.2K CHM R517 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 3.3K CHM R522 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 4.7K OHM R515,516,552 3 RES-08-00128 RESISTOR SMD '0805'1/8WJ 22K CHM R523 1 RES-08-00164 RESISTOR SMD '0805'1/8WJ 22K CHM R523 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 38K OHM R511 1 RES-08-00128 RESISTOR SMD '0805'1/8WJ 47K OHM R513 1 RES-08-00221 RESISTOR SMD '0805'1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ	RES-08-00135	RESISTOR	SMD "0805"1/8WJ	10 OHM	R508	1
RES-08-00148 RESISTOR SMD '0805''/8WJ 1K OHM R509,521,529,553,554 5 RES-08-00126 RESISTOR SMD '0805''/8WJ 1.5K OHM R511 1 RES-08-00174 RESISTOR SMD '0805''/8WJ 2.2K OHM R517 1 RES-08-00174 RESISTOR SMD '0805''/8WJ 4.7K OHM R515,516,552 3 RES-08-00187 RESISTOR SMD '0805''/8WJ 4.7K OHM R502,526,551,556,559 6 RES-08-00187 RESISTOR SMD '0805''/8WJ 2K OHM R523 1 RES-08-00198 RESISTOR SMD '0805''/8WJ 2K OHM R523,526,551,556,559 6 RES-08-00198 RESISTOR SMD '0805''/8WJ 2K OHM R503,504 2 RES-08-00217 RESISTOR SMD '0805''/8WJ 47K OHM R512 1 RES-08-00198 RESISTOR SMD '0805''/8WJ 100K OHM R512 1 RES-08-00218 RESISTOR SMD '0805''/8WJ 100K OHM R512 1 RES-08-00139 RESISTOR						1
RES-08-00126 RESISTOR SMD '0805'1/8WJ 1.5K OHM R511 1 RES-08-00151 RESISTOR SMD '0805'1/8WJ 2.2K OHM R517 1 RES-08-00174 RESISTOR SMD '0805'1/8WJ 3.3K OHM R515,516,552 3 RES-08-00132 RESISTOR SMD '0805'1/8WJ 4.7K OHM R515,516,552 3 RES-08-00132 RESISTOR SMD '0805'1/8WJ 22K OHM R503,504 2 RES-08-00184 RESISTOR SMD '0805'1/8WJ 39K OHM R503,504 2 RES-08-00198 RESISTOR SMD '0805'1/8WJ 39K OHM R512 1 RES-08-00204 RESISTOR SMD '0805'1/8WJ 39K OHM R512 1 RES-08-00216 RESISTOR SMD '0805'1/8WJ 10K OHM R514 1 RES-08-00221 RESISTOR SMD '0805'1/8WJ 10K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 10K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'50V 5% 47pF C510,511,517 3 CEC-08-00022 CAPACITOR						1
RES-08-00151 RESISTOR SMD '0805'1/8WJ 2.2K CHM R517 1 RES-08-00174 RESISTOR SMD '0805'1/8WJ 3.3K OHM R522 1 RES-08-00191 RESISTOR SMD '0805'1/8WJ 4.7K OHM R517 1 RES-08-00192 RESISTOR SMD '0805'1/8WJ 4.7K OHM R517,526,526,551,556,559 6 RES-08-00187 RESISTOR SMD '0805'1/8WJ 22K OHM R503,504 2 RES-08-00187 RESISTOR SMD '0805'1/8WJ 38K OHM R503,504 2 RES-08-00187 RESISTOR SMD '0805'1/8WJ 47K OHM R513 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 75K OHM R514 1 RES-08-00130 RESISTOR SMD '0805'1/8WJ 100K OHM R514 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R514 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R516 3 RES-08-00149 RESISTOR SMD '0805'S 50V 5%						5
RES-08-00174 RESISTOR SMD '0805'1/8WJ 3.3K OHM R522 1 RES-08-00191 RESISTOR SMD '0805'1/8WJ 4.7K OHM R515,516,552 3 RES-08-00132 RESISTOR SMD '0805'1/8WJ 2K OHM R523 1 RES-08-00164 RESISTOR SMD '0805'1/8WJ 22K OHM R523 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 39K OHM R503,504 2 RES-08-00187 RESISTOR SMD '0805'1/8WJ 31K OHM R513 1 RES-08-0024 RESISTOR SMD '0805'1/8WJ 51K OHM R513 1 RES-08-0024 RESISTOR SMD '0805'1/8WJ 51K OHM R514 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD '1206'1/6WJ 22 OHM R550,557 2 CEC-08-00028 CAPACITOR C						1
RES-08-00191 RESISTOR SMD '0805'1/8WJ 4.7K OHM R515,516,552 3 RES-08-00132 RESISTOR SMD '0805'1/8WJ 10K OHM R507,525,526,551,556,559 6 RES-08-00187 RESISTOR SMD '0805'1/8WJ 22K OHM R523 1 RES-08-00187 RESISTOR SMD '0805'1/8WJ 39K OHM R503,504 2 RES-08-00187 RESISTOR SMD '0805'1/8WJ 31K OHM R513 1 RES-08-00218 RESISTOR SMD '0805'1/8WJ 75K OHM R514 1 RES-08-00219 RESISTOR SMD '0805'1/8WJ 75K OHM R514 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD '0805'1/8WJ 100K OHM R514 1 RES-12-00161 RESISTOR SMD '1206'1/6WJ 22 OHM R550,557 2 CEC-08-00042 CAPACITOR CHIP'0805' 50						1
RES-08-00164 RESISTOR SMD "0805"1/8WJ 22K OHM R523 1 RES-08-00197 RESISTOR SMD "0805"1/8WJ 39K OHM R503,504 2 RES-08-00198 RESISTOR SMD "0805"1/8WJ 47K OHM R513 1 RES-08-00221 RESISTOR SMD "0805"1/8WJ 51K OHM R512 1 RES-08-00221 RESISTOR SMD "0805"1/8WJ 75K OHM R514 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "1206"1/6WJ 22 OHM R520,524,527 3 RES-12-00161 RESISTOR SMD "1206"1/6WJ 22 OHM R520,5515,516 3 3 CEC-08-00042 CAPACITOR CHIP'0805" 50V 5% 47pF C510,511,517 3 3 CEC-12-00008 CAPACITOR CHIP'106" 50V 5% 105pF C521 1 1						à
RES-08-00164 RESISTOR SMD *0805*1/8WJ 22K OHM R523 1 RES-08-00197 RESISTOR SMD *0805*1/8WJ 39K OHM R503,504 2 RES-08-00198 RESISTOR SMD *0805*1/8WJ 47K OHM R513 1 RES-08-00221 RESISTOR SMD *0805*1/8WJ 51K OHM R512 1 RES-08-00221 RESISTOR SMD *0805*1/8WJ 75K OHM R514 1 RES-08-00149 RESISTOR SMD *0805*1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD *0805*1/8WJ 100K OHM R514 1 RES-08-00149 RESISTOR SMD *0805*1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD *0805*1/8WJ 100K OHM R510 3 RES-08-00149 RESISTOR SMD *1206*1/6WJ 22 OHM R520,524,527 3 RES-12-00161 RESISTOR CHIP*0805* 50V 5% 47pF C510,511,517 3 CEC-08-00042 CAPACITOR CHIP*0805* 50V 5% 104pF C512,518,520,523,524,526,528,529,530 9 CEC-12-00008 <td></td> <td></td> <td></td> <td></td> <td></td> <td>6</td>						6
RES-08-00198 RESISTOR SMD "0805"1/8WJ 47K OHM R513 1 RES-08-00224 RESISTOR SMD "0805"1/8WJ 75K OHM R514 1 RES-08-00130 RESISTOR SMD "0805"1/8WJ 75K OHM R510 1 RES-08-00130 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "1206"1/6WJ 22 OHM R550,557 2 CEC-08-00042 CAPACITOR CHIP"0805" 50V 5% 47pF C510,511,517 3 GEC-08-00004 CAPACITOR CHIP"0805" 50V 5% 104pF C512,518,520,523,524,526,528,529,530 9 CEC-12-00008 CAPACITOR CHIP"1206" 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00356 CAPACITOR						
RES-08-00204 RESISTOR SMD "0805"1/8WJ 51K OHM R512 1 RES-08-00221 RESISTOR SMD "0805"1/8WJ 75K OHM R514 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 100K OHM R510 1 RES-08-00149 RESISTOR SMD "0805"1/8WJ 1M OHM R520,524,527 3 RES-12-00161 RESISTOR SMD "1206"1/6WJ 22 OHM R550,557 2 CEC-08-00042 CAPACITOR CHIP*0805" 50V 5% 47pF C510,511,517 3 CEC-08-00004 CAPACITOR CHIP*0805" 50V 5% 104pF C512,518,520,523,524,526,528,529,530 9 CEC-12-00008 CAPACITOR CHIP*1206" 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C523,531 2 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 4.7uF/25V C513,522,527 3 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C533 1 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/16V"NP,8P" C504	RES-08-00187	RESISTOR		39K OHM	R503,504	2
RES-08-00221 RES-08-00130 RESISTOR RESISTOR SMD '0805''1/8WJ SMD '0805''1/8WJ 75K OHM 100K OHM 100K OHM R510 R514 1 1 RES RES-08-00149 RESISTOR SMD '0805''1/8WJ 1M OHM R510 1 1 M OHM 1 R520,524,527 3 RES-12-00161 RESISTOR SMD '1206''1/6WJ 22 OHM R550,557 2 CEC-08-00042 CEC-08-00028 CAPACITOR CAPACITOR CHIP'0805'' 50V 5% 47pF C510,511,517 3 330pF 3 CEC-12-00008 CAPACITOR CHIP'0805'' 50V 5% 104pF C512,518,520,523,524,526,528,529,530 9 CEC-12-00008 CAPACITOR CHIP'1206'' 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR CAPACITOR ELECTROLYTIC CHIP 'MV'' 2.2uF/50V C525,531 2 ELC-00-00070 CAPACITOR ELECTROLYTIC CHIP 'MV'' 2.2uF/16V''NP,8P'' C504 1 ELC-00-00066 CAPACITOR ELECTROLYTIC CHIP 'BP,NC'' 22uF/16V''NP,BP'' C504 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						1
RES-08-00130 RES-08-00149 RESISTOR RESISTOR SMD "0805"1/8WJ SMD "0805"1/8WJ 100K OHM 1M OHM R510 R520,524,527 1 3 RES-12-00161 RESISTOR SMD "1206"1/6WJ 22 OHM R550,557 2 CEC-08-00042 CEC-08-00028 CAPACITOR CAPACITOR CHIP"0805" 50V 5% CHIP"0805" 50V 5% 47pF 330pF C510,511,517 C505,515,516 3 C505,515,516 3 3 CEC-12-00008 CAPACITOR CHIP"1206" 50V 5% 104pF C521 1 ELC-00-00077 CAPACITOR ELC-00-00076 ELECTROLYTIC CHIP "MV" ELECTROLYTIC CHIP "MV" 2.2uF/50V 4.7uF/25V C525,531 C533 2 ELC-00-000606 CAPACITOR CAPACITOR ELECTROLYTIC CHIP "MV" ELECTROLYTIC CHIP "MV" 2.2uF/16V"NP,8P" 100F/16V C504 C514 1 ELC-00-00009 INDUCTOR AXIAL TYPE 5% 100uH L501 1						1
RES-08-00149 RESISTOR SMD "0805"1/8WJ 1M OHM R520,524,527 3 RES-12-00161 RESISTOR SMD "1206"1/6WJ 22 OHM R550,557 2 CEC-08-00042 CAPACITOR CHIP"0805" 50V 5% 47pF C510,511,517 3 3 CEC-08-00042 CAPACITOR CHIP"0805" 50V 5% 330pF C505,515,516 3 3 CEC-12-00008 CAPACITOR CHIP"0805" 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00056 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/16V"NP,BP" C504 1 ELC-00-000606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						
RES-12-00161 RESISTOR SMD "1206"1/6WJ 22 OHM R550,557 2 CEC-08-00042 CAPACITOR CHIP"0805" 50V 5% 330pF C510,511,517 330pF 250,551,516 330pF 330pF 250,551,516 330pF 350,557 350,551,516						3
CEC-08-00042 CAPACITOR CHIP"0805" 50V 5% 330pF C510,511,517 330pF 330pF 330pF 2505,515,516 330pF 104pF 104pF 104pF 11 CEC-08-00008 CAPACITOR CHIP"1206" 50V 5% 105pF C521 11 1 CEC-12-00008 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C521 1 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C523,322,527 3 3 ELC-00-00056 CAPACITOR ELECTROLYTIC CHIP "MV" 22uF/16V"NP,8P" C504 1 1 ND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1 1						
CEC-08-00028 CAPACITOR CHIP"0805" 50V 5% 330pF C505,515,516 3 CEC-08-00004 CAPACITOR CHIP"0805" 50V 5% 104pF C512,518,520,523,524,526,528,529,530 9 CEC-12-00008 CAPACITOR CHIP"1206" 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00070 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C533 1 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/16V"NP,BP" C504 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 IND-00-00019 CAPACITOR AXIAL TYPE 5% 100uH L501 1	HES-12-00161	RESISTOR		22 OHM	R550,557	2
CEC-08-00004 CAPACITOR CHIP"0805" 50V 5% 104pF C512,518,520,523,524,526,528,529,530 9 CEC-12-00008 CAPACITOR CHIP"1206" 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00070 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-000356 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						
CEC-12-00008 CAPACITOR CHIP"1206" 50V 5% 105pF C521 1 ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00070 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 IND-00-00019 CAPACITOR AXIAL TYPE 5% 100uH L501 1						
ELC-00-00077 CAPACITOR ELECTROLYTIC CHIP "MV" 2.2uF/50V C525,531 2 ELC-00-00070 CAPACITOR ELECTROLYTIC CHIP "MV" 1.7uF/25V C513,522,527 3 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C504 1 IND-00-00019 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 103J C514 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						5
ELC-00-00070 CAPACITOR ELECTROLYTIC CHIP "MV" 4.7uF/25V C513,522,527 3 ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 MYC-00-00019 CAPACITOR MYLAR 5% 100V 103J C514 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1	CEC-12-00008	CAPACITOR	CHIP"1206" 50V 5%	105pF	C521	1
ELC-00-00356 CAPACITOR ELECTROLYTIC CHIP "MV" 10uF/16V C533 1 ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 MYC-00-00019 CAPACITOR MYLAR 5% 100V 103J C514 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						
ELC-00-00606 CAPACITOR ELECTROLYTIC CHIP "BP,NC" 22uF/16V"NP,BP" C504 1 MYC-00-00019 CAPACITOR MYLAR 5% 100V 103J C514 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						3
MYC-00-00019 CAPACITOR MYLAR 5% 100V 103J C514 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1	ELC-00-00356	CAPACITOR	ELECTROLY ING CHIP "MV"	100-/167	0000]
MYC-00-00019 CAPACITOR MYLAR 5% 100V 103J C514 1 IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1	ELC-00-00606	CAPACITOR	ELECTROLYTIC CHIP "BP.NC"	22uF/16V"NP.BP"	C504	1
IND-00-00020 INDUCTOR AXIAL TYPE 5% 100uH L501 1						1
						4
	IND-00-00020	INDUCTOR			LOVI	1

PART NO. N	OMENCATURE	DESCRIPTION	MFR PARTS	REF. NO	Q'TY
REN-00-00001	RESONATOR	2.56MHz	CSA256MG	X501	1
VOL-00-00238	VOLUME	SEMI X-TYPE (RG06X502)	5K SEMI	VR501	1
HED-00-00214 HED-00-00215	Header Pin Header Pin	PIN HEADER C-TYPE 3P(R-ANGLE) PIN HEADER C-TYPE 7P(R-ANGLE)		HP2 HP3	1 1
DIO-00-00041	DIODE	ZENER 0.5W,12V	1N5242	D201,202	2(4)
TRS-00-00087	TRANSISTOR	SMALL SIGNAL PNP "TO-92L"	KTA1023Y	Q204,206,208,210	4(8)
TRS-00-00088	TRANSISTOR	SMALL SIGNAL NPN "TO-92L"	KTC1027Y	Q203,205,207,209	4(8)
RES-00-00401 RES-00-00463 RES-00-00590	RESISTOR RESISTOR RESISTOR	METAL FILM 1/5WF METAL FILM 1/5WF METAL FILM 1/5WF	100 OHM 220 OHM 910 OHM	R204 R203 R202,206	1(2) 1(2) 2(4)
RES-00-00636 RES-00-00685 RES-00-00637	RESISTOR RESISTOR RESISTOR	CARBON FILM 1/5WJ CARBON FILM 1/5WJ CARBON FILM 1/5WJ	1 OHM 330 OHM 2.2K OHM	R207,208,211,212 R420,421 R201,205	4(8) 2(4) 2(4)
CEC-00-00076 MYC-00-00088 RES-00-01033	and the second second second second	CERAMIC DISK 50V MYLAR 5% 63V "TL TYPE" MOR-S 2WJ	104pF+E39 224J 4.7K OHM	C201,202,204,205 C203,206 R209,210,213,214	4(8) 2(4) 4(8)
TRS-00-00096 TRS-00-00112	TRANSISTOR TRANSISTOR	SMALL SIGNAL PNP SMALL SIGNAL NPN	KSA/KTA1381 KSC/KTC3503	Q202 Q201	1(2) 1(2)
HED-00-00214 HED-00-00231	Header Pin Header Pin	PIN HEADER C-TYPE 3P(R-ANGLE) PIN HEADER C-TYPE 5P(R-ANGLE)			1(2) 1(2)

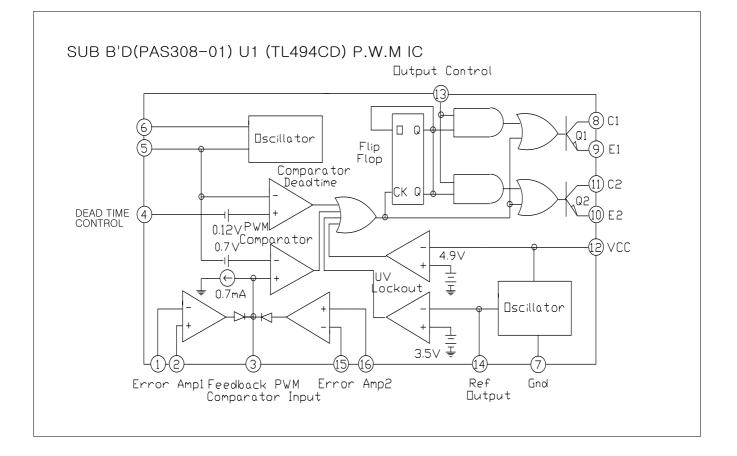
GTO 1201.1 Version II Electrical Parts List Addendum

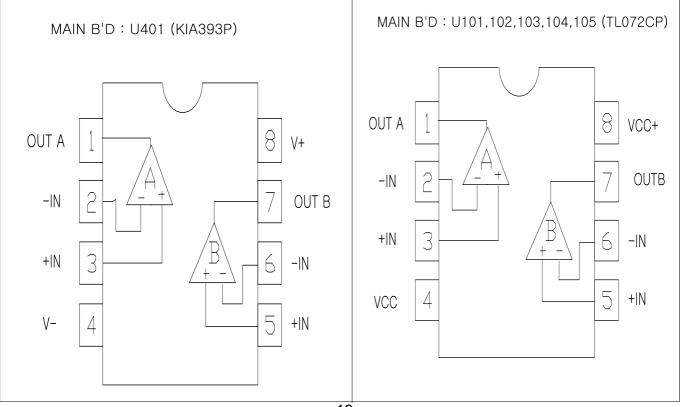
The following chart below represents the only electrical parts differences in Version I and II models:

h	MODEL	PART NAME	PART NO	SPEC	DESIGNATOR
1	GTO 1201.1	RESISTOR	RES-00-00756	1/5WJ 820 OHM	R116
	GTO 1201.1II	RESISTOR	RES-00-00474	1/5WF 240 OHM	R116
2	GTO 1201.1	RESISTOR	RES-00-00482	1/5WF 2K OHM	R117
	GTO 1201.1II	RESISTOR	RES-00-00577	1/5WF 750 OHM	R117
3	GTO 1201.1	RESISTOR	RES-00-00575	1/5WF 7.5K OHM	R118
3	GTO 1201.1II	RESISTOR	RES-00-00402	1/5WF 10K OHM	R118
4	GTO 1201.1	POWER TERMINAL	TER-00-00238	(3P) WT-9842	TER1
	GTO 1201.1II	POWER TERMINAL	TER-00-00277	(3P) DK-03B03-AG-1-DN	TER1
5	GTO 1201.1	SPEAKER TERMINAL	TER-00-00239	(4P) WT-9321	TER2
	GTO 1201.1II	SPEAKER TERMINAL	TER-00-00275	(4P) DK-04A03-AG-1-DN	TER2

UBL GTO 1201.1/1201.11

Integrated Circuit Diagrams

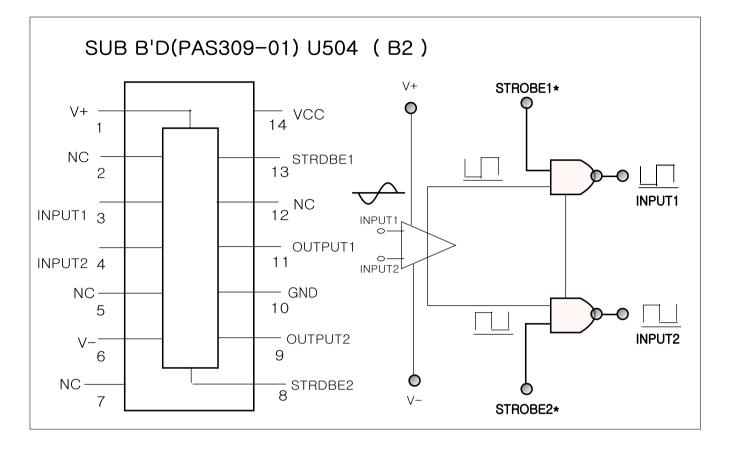


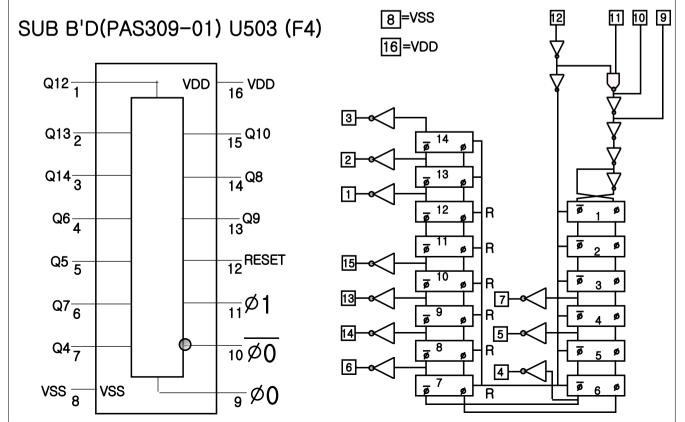


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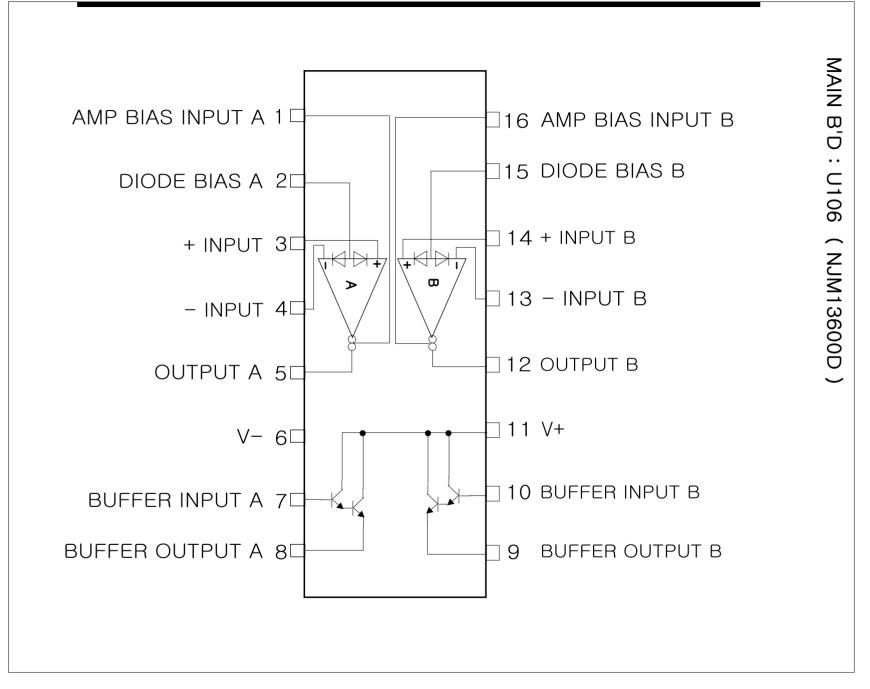
Integrated Circuit Diagrams

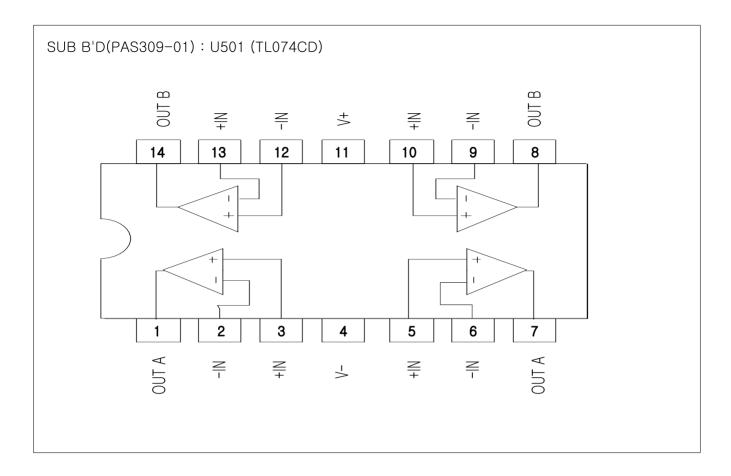
UBL GTO 1201.1/1201.11

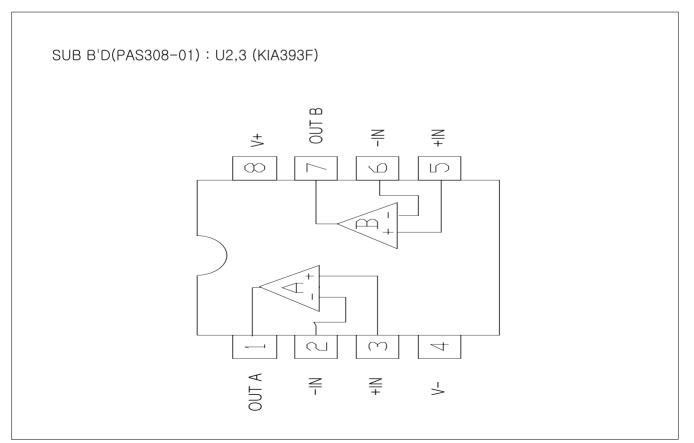




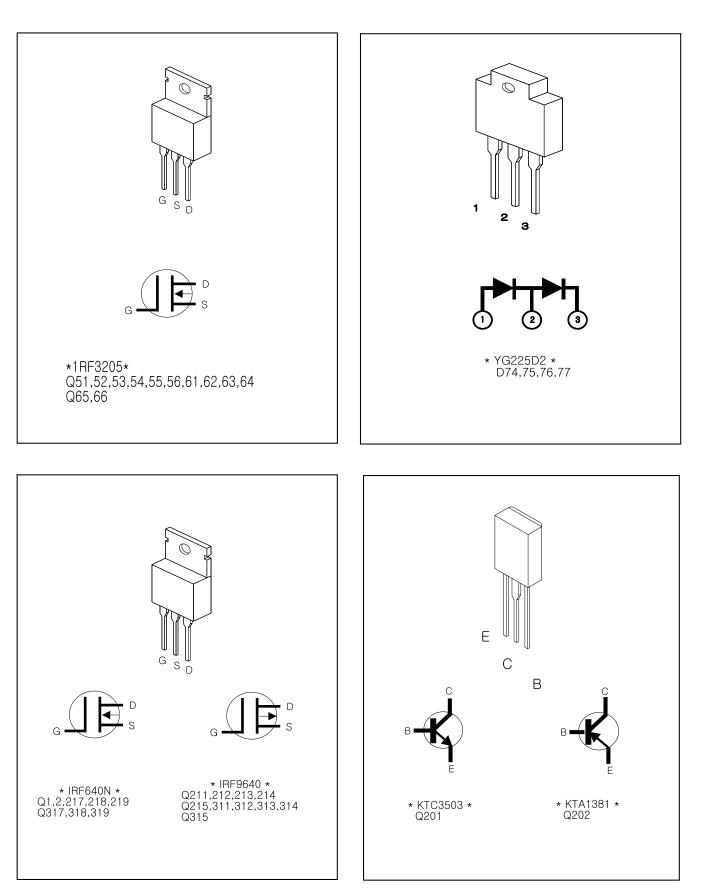
Integrated Circuit Diagrams



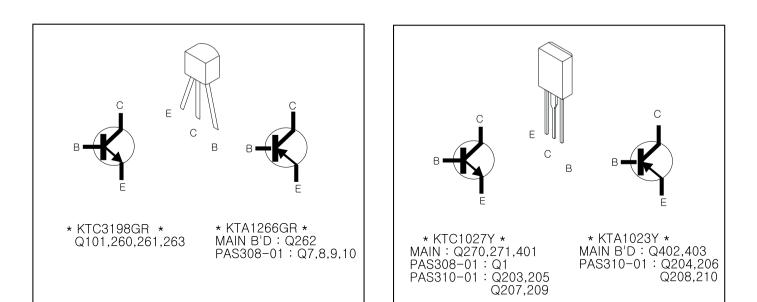


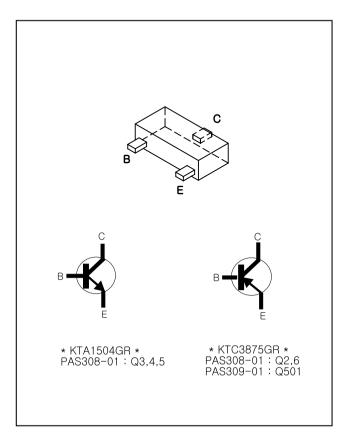


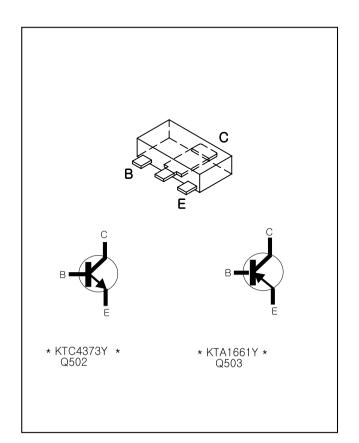
Transistor Diagrams



Transistor Diagrams







A

B

C

D

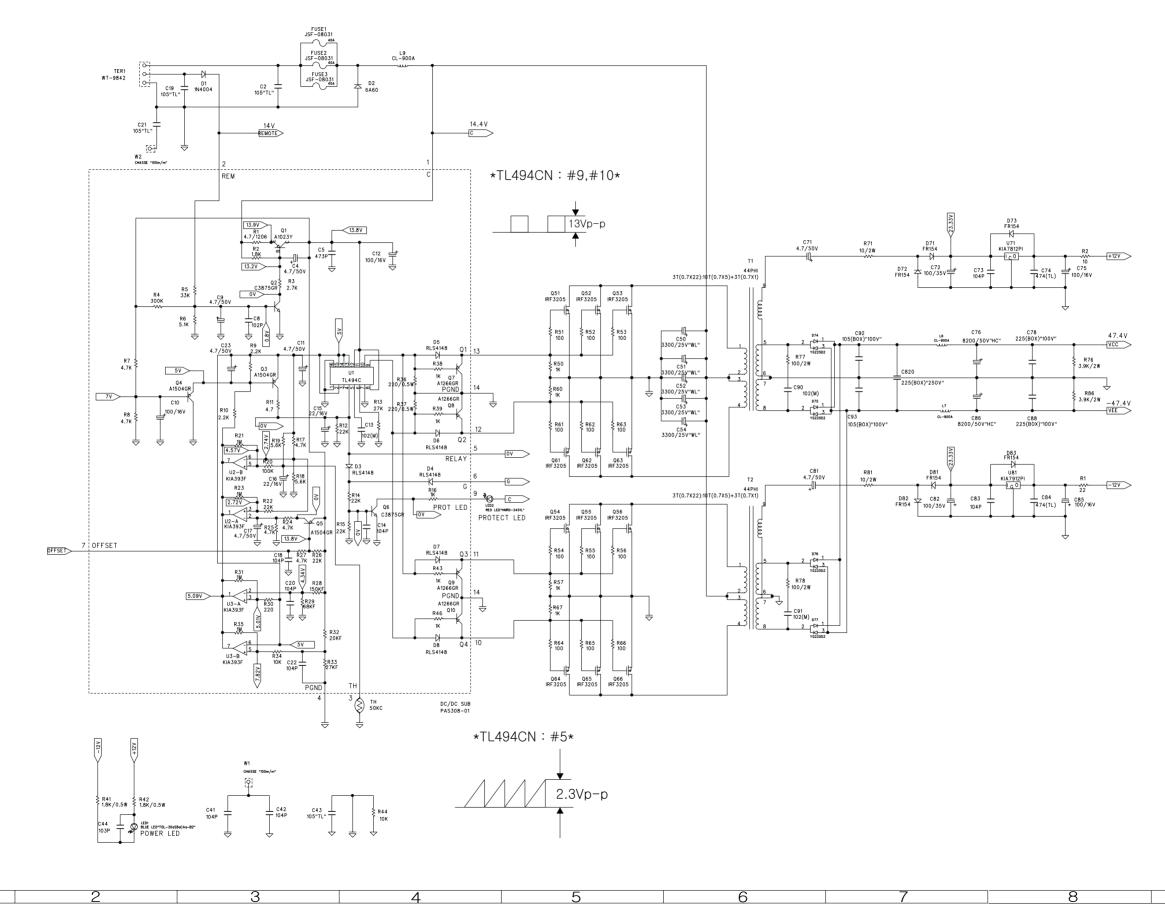
E

F

G

9

GTO 1201.1 Page1 Schematic



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А

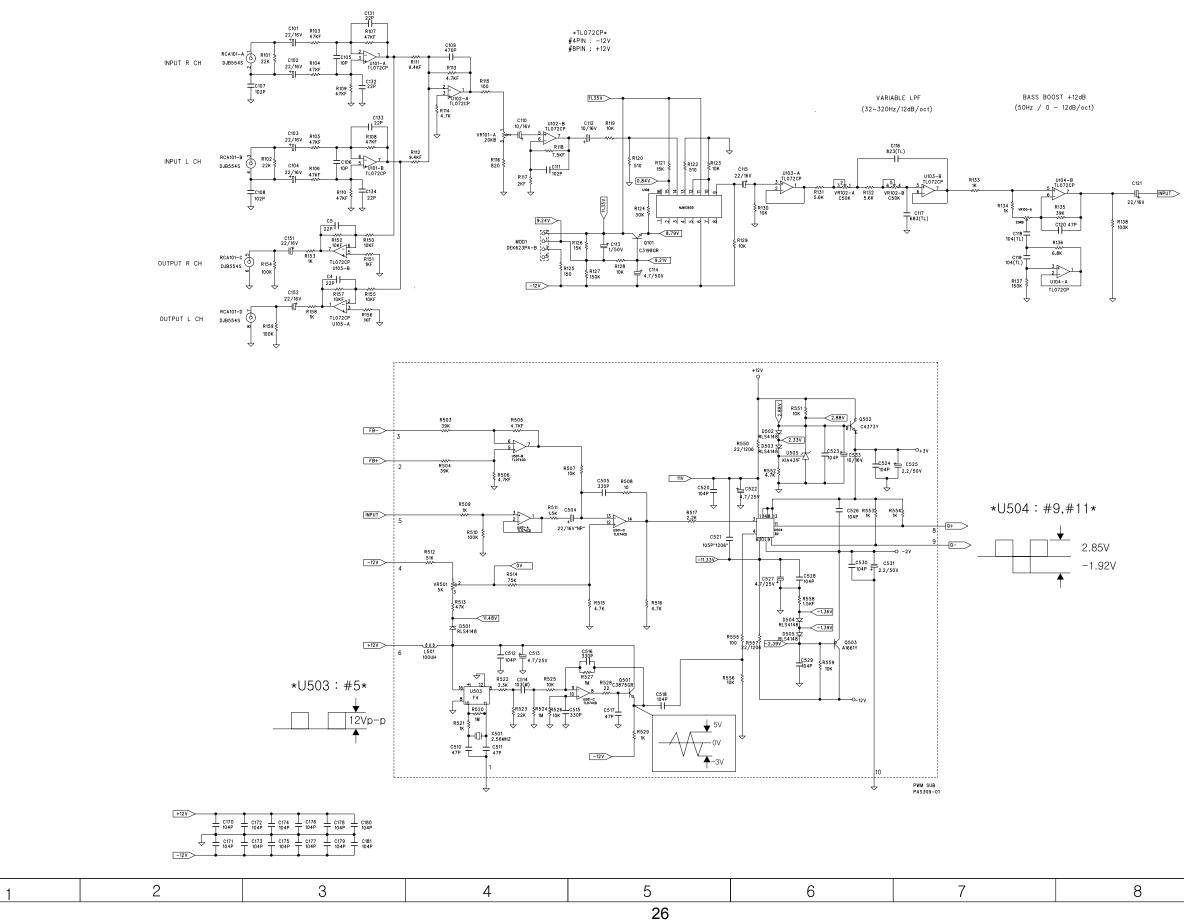
В

С

D

Е

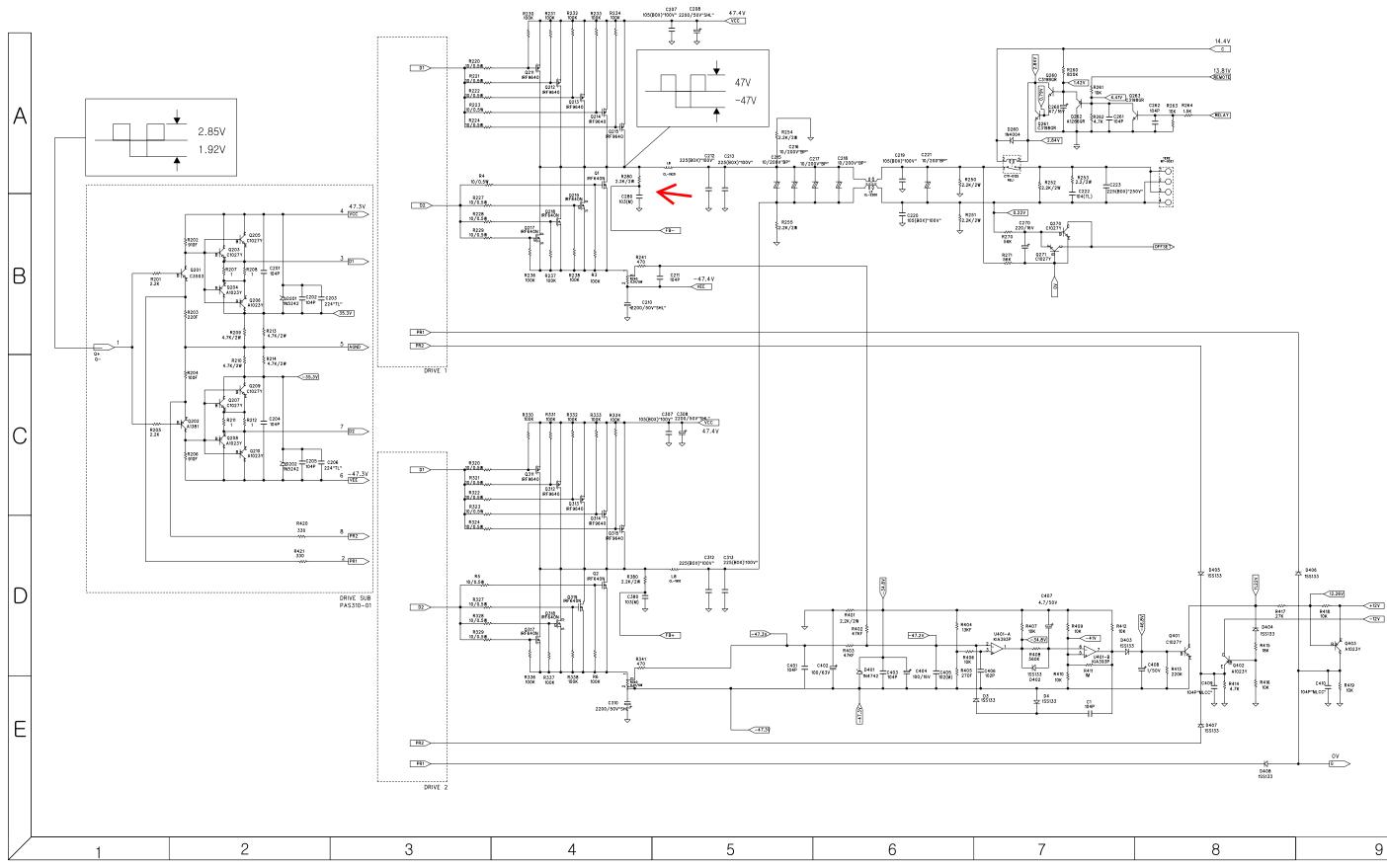
GTO 1201.1 Page2 Schematic



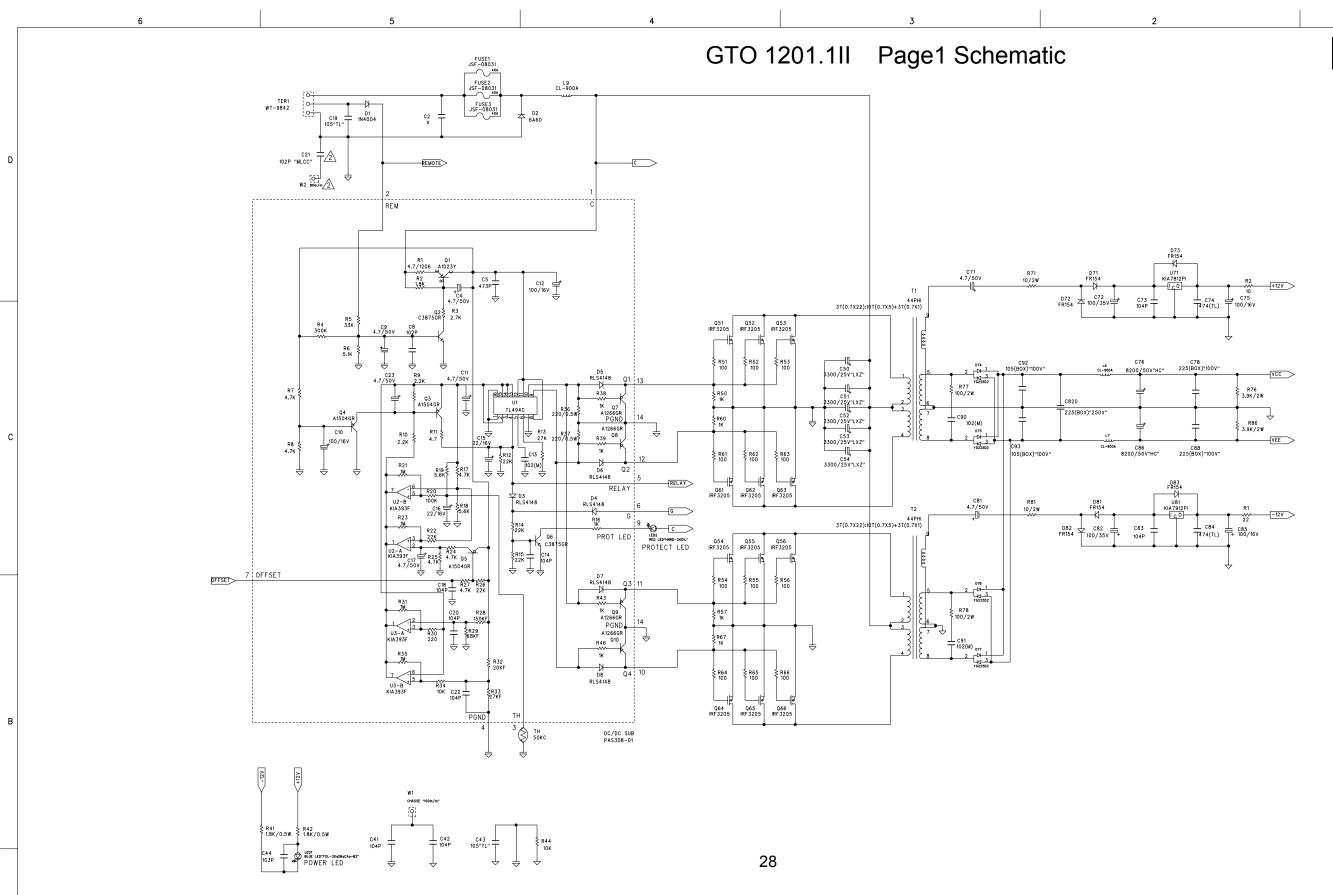
UBL GTO1201.1

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GTO 1201.1 Page3 Schematic



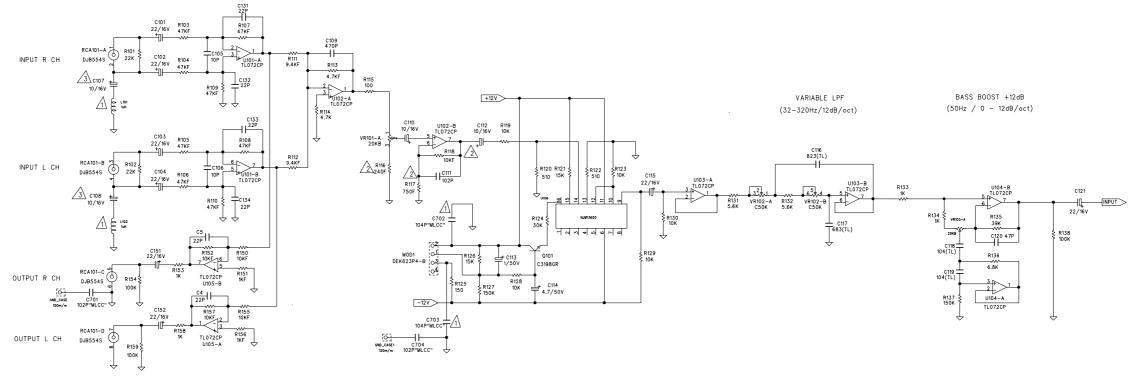
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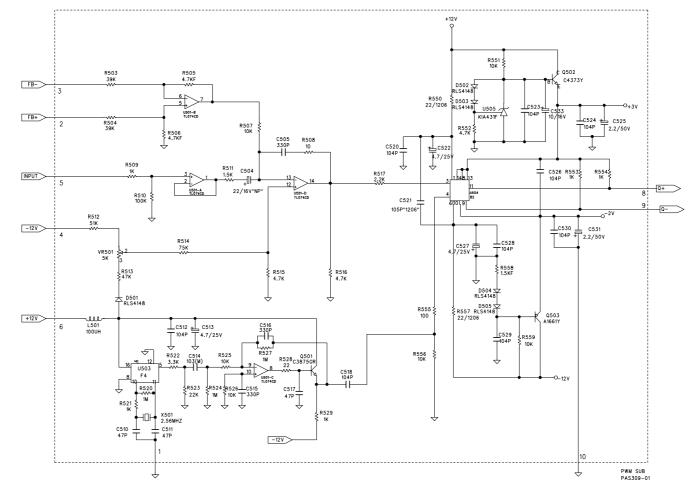


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GTO 1201.1II

GTO 1201.1II Page2 Schematic





+12V						
	I area	ΙΙ				
	L C170	⊥ C172 ⊥		L C176 _	L C178 _L	C180
	- 104P	T 104P T	- 104P -	- 104P -	T 104P T	104P
		1041	10-41		10.41	10.41
_	-	_ • •				
	1	1 1				
	L C171	C173	_ C175 _	L C177 L	L C179 _L	_ C181
\sim	- 104P	- 104B -	- 104P -	- 104P -	- 104P -	- 104P
	1041	1041	1041	1041	1041	1041
1011	1	1 1				
-12V >	•	••••				
<u>-12V</u>	T 104P	↓ 104P ↓	- 104P -	104P	104P	- 104P

D

c

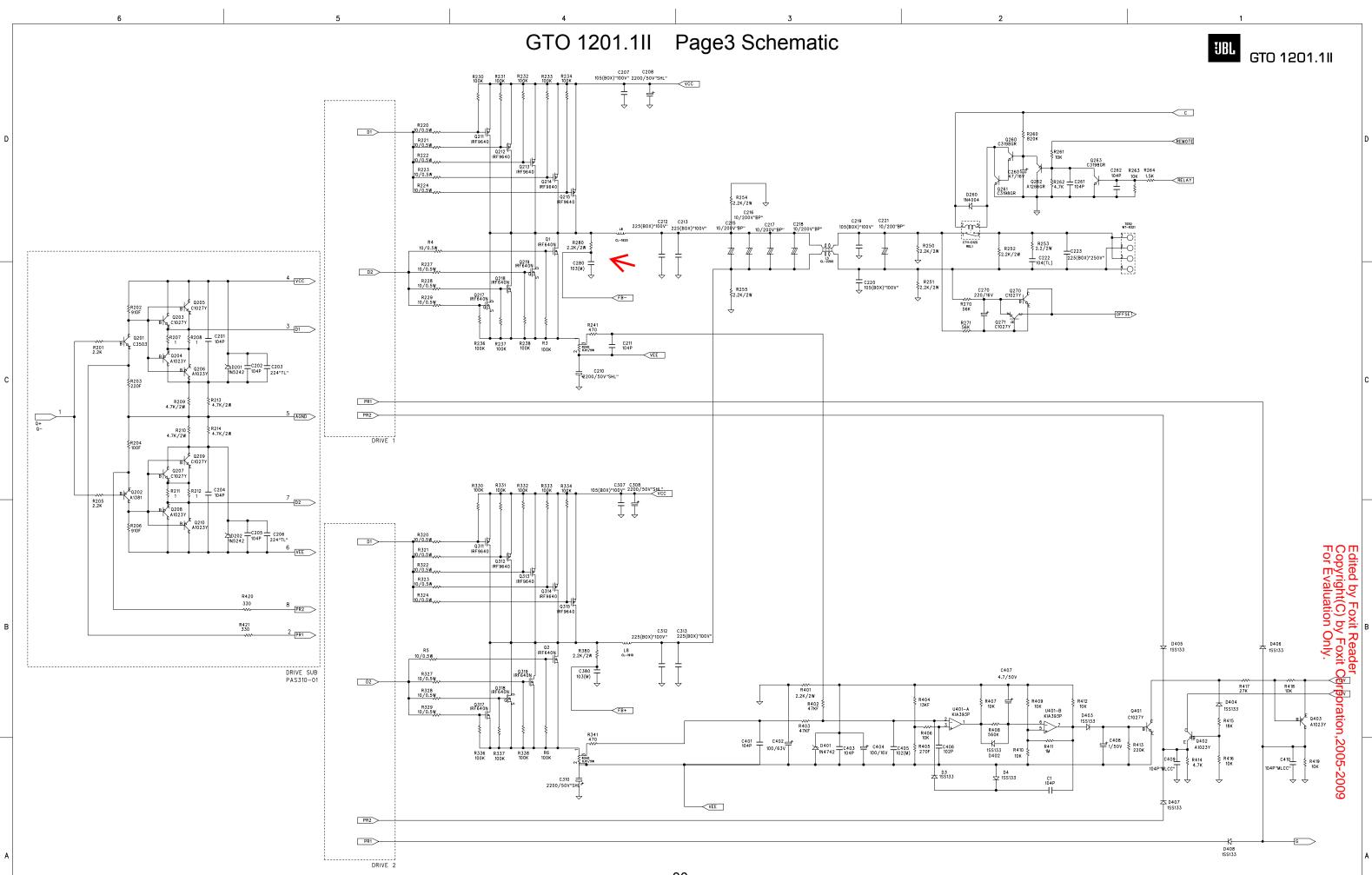
в

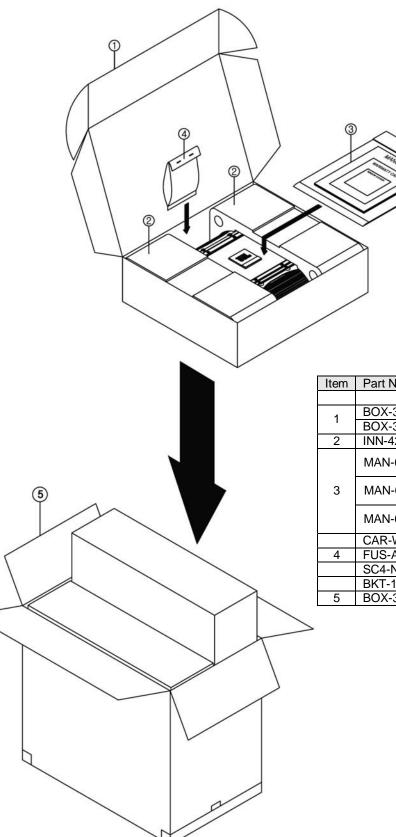
Α

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GTO 1201.1II





Item	Part Number	Description	Qty
1	BOX-36-147AB	GTO 1201.1 Gift box carton	1
1	BOX-36-147AD	GTO 1201.1II Gift box carton	1
2	INN-42-004A0	End Pads	2
	MAN-00-0195A	GTO 1201.1 Owner's manual (USA)	1
3	MAN-01-0195Z	GTO 1201.1II Owner's manual (USA)	1
	MAN-00-0196A	GTO 1201.1 Owner's manual (Europe)	1
	CAR-WA-004A	Warranty Card	1
4	FUS-AT-00008	Fuse 40A	3
	SC4-NP-40250	Mounting screw STT1 PH 4X25 NI	6
	BKT-14-523A0	Bracket lamp SK-5/BK	4
5	BOX-39-158AB	Pair Pack carton	1