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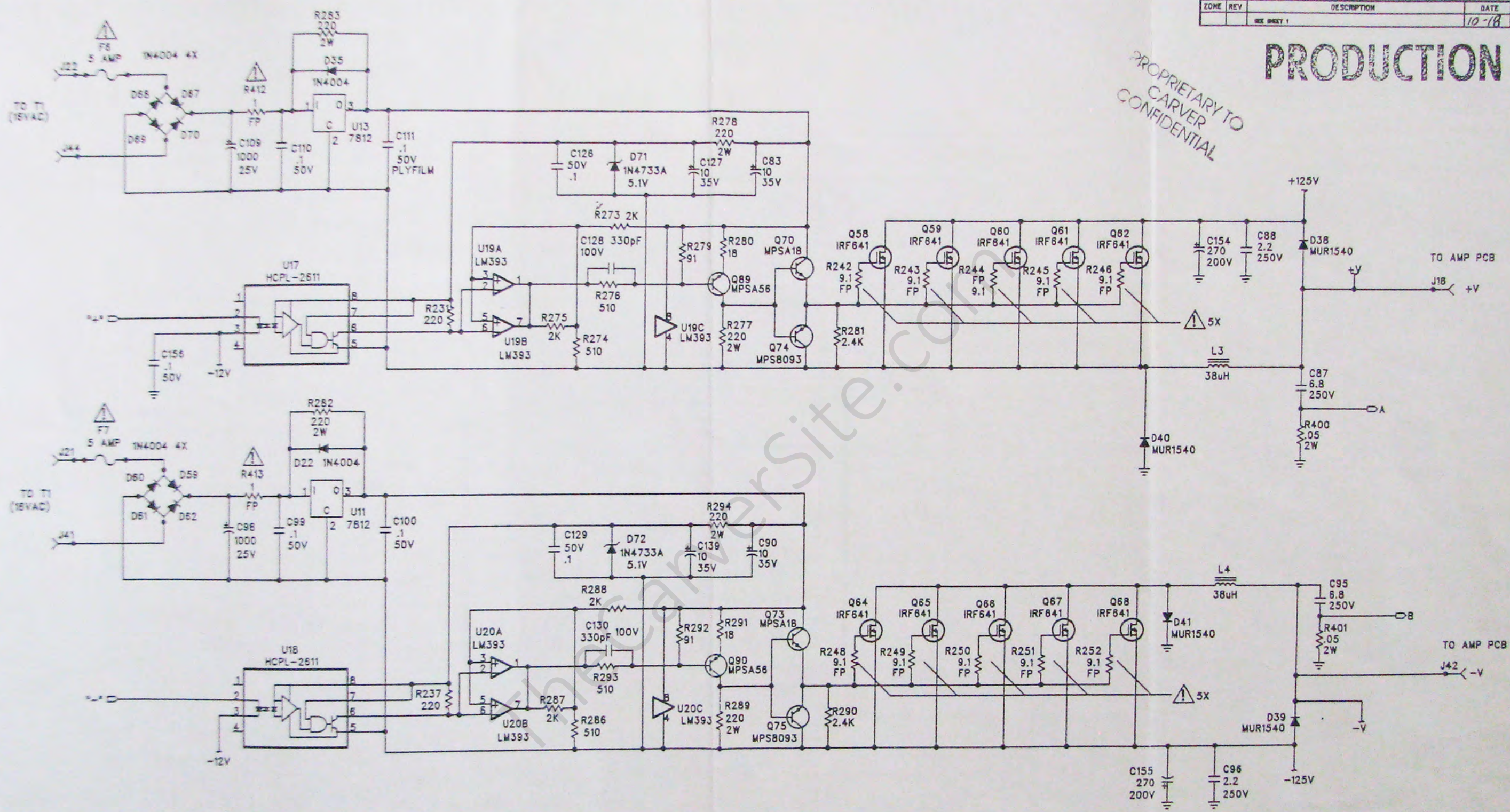
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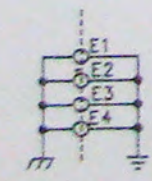
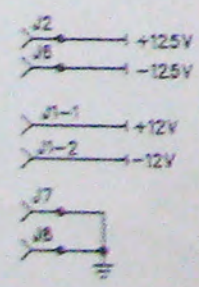
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PRODUCTION

PROPRIETARY TO
CARVER
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FROM POWER SUPPLY



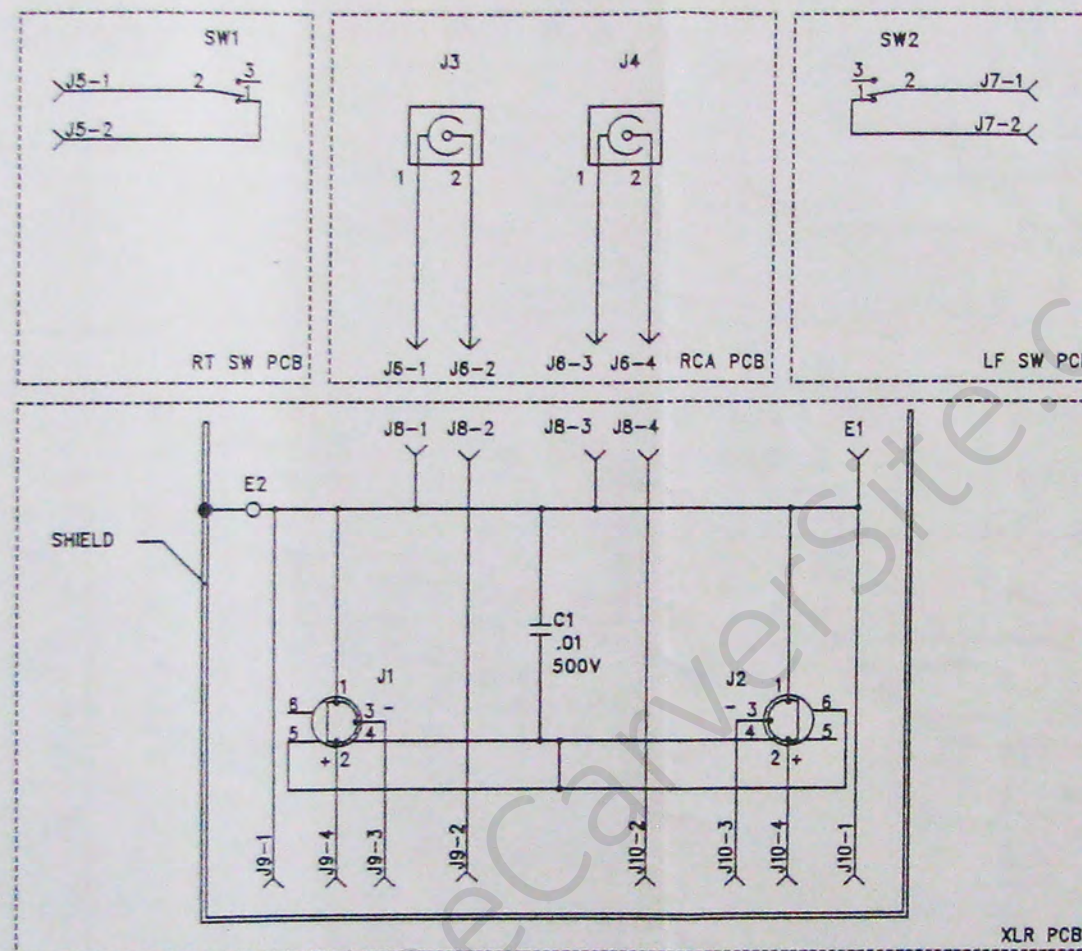
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QW NO.	605-00571-01	REV	1	REV	A	1
REVISIONS						
ZONE	REV	DESCRIPTION			DATE	APPROVED
A		PRODUCTION RELEASE			10/21	<i>[Signature]</i>

PRODUCTION

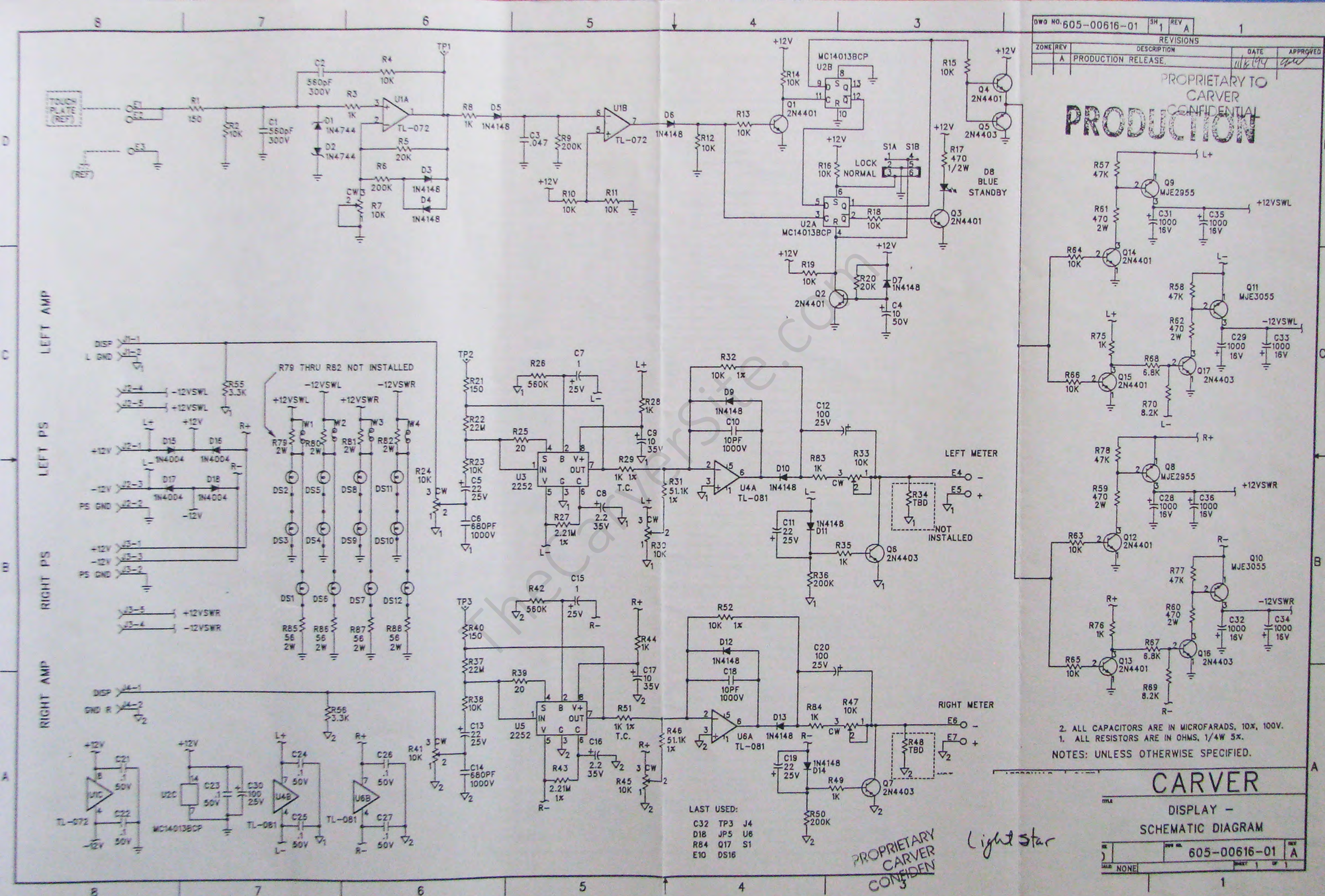
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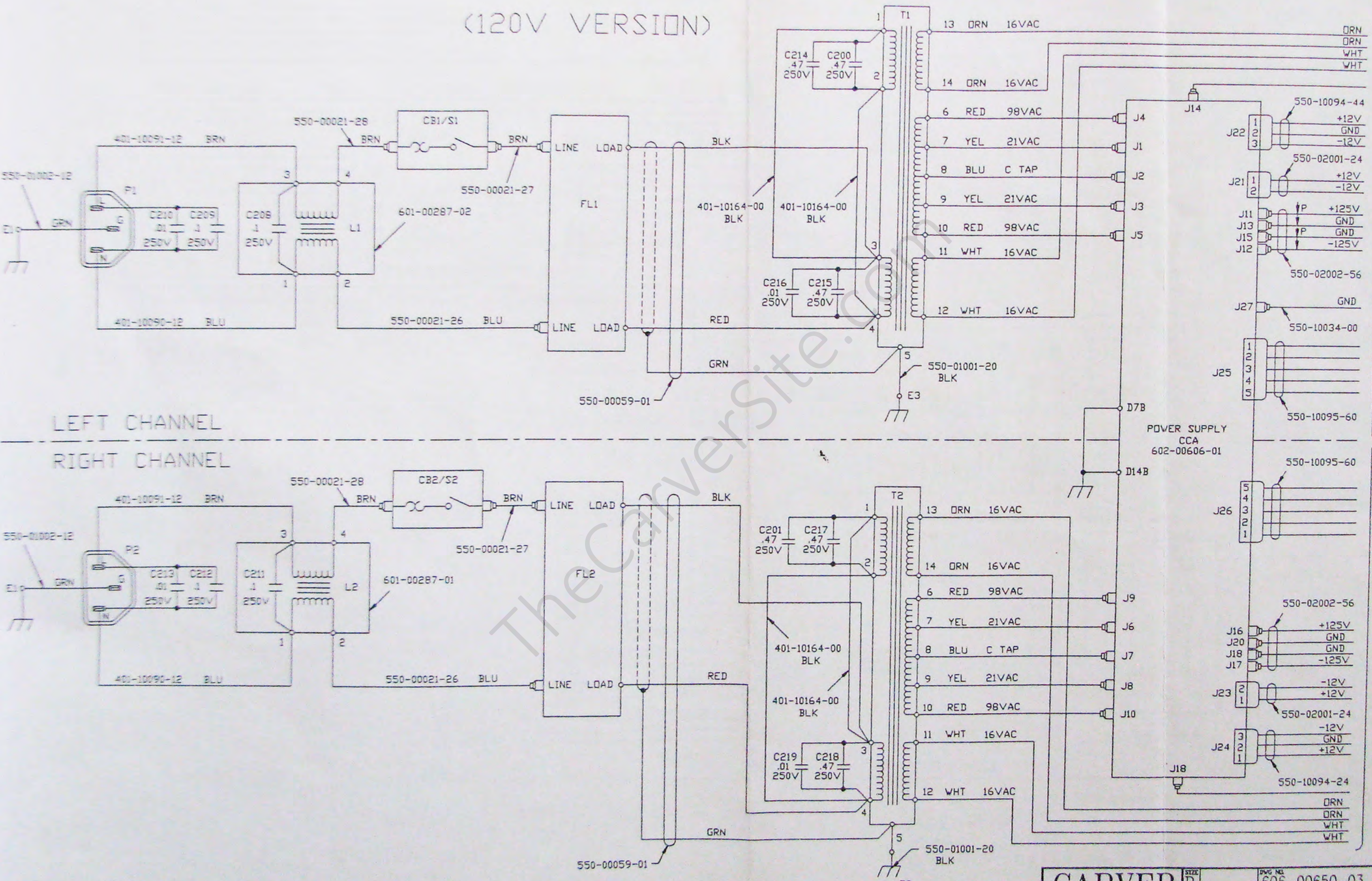
1. ALL CAPACITORS ARE IN MICROFARADS. 10%.
NOTES: UNLESS OTHERWISE SPECIFIED.

PROPRIETARY TO
CARVER
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APPROVALS		DATE	CARVER	
DESIGNER	D. BUTLER	07-18-84	INPUT PCB SCHEMATIC DIAGRAM	
CHECKED	A. COY	07-20-84		
REV	V. RICHARDSON	07-19-84		
REV	B. CALDWELL	07-21-84		
REV	K. RUPERT	07-21-84		
DESIGNED	L. VOLLMANN		605-00571-01	
LIGHTSTAR REV		D	A	
USED ON				

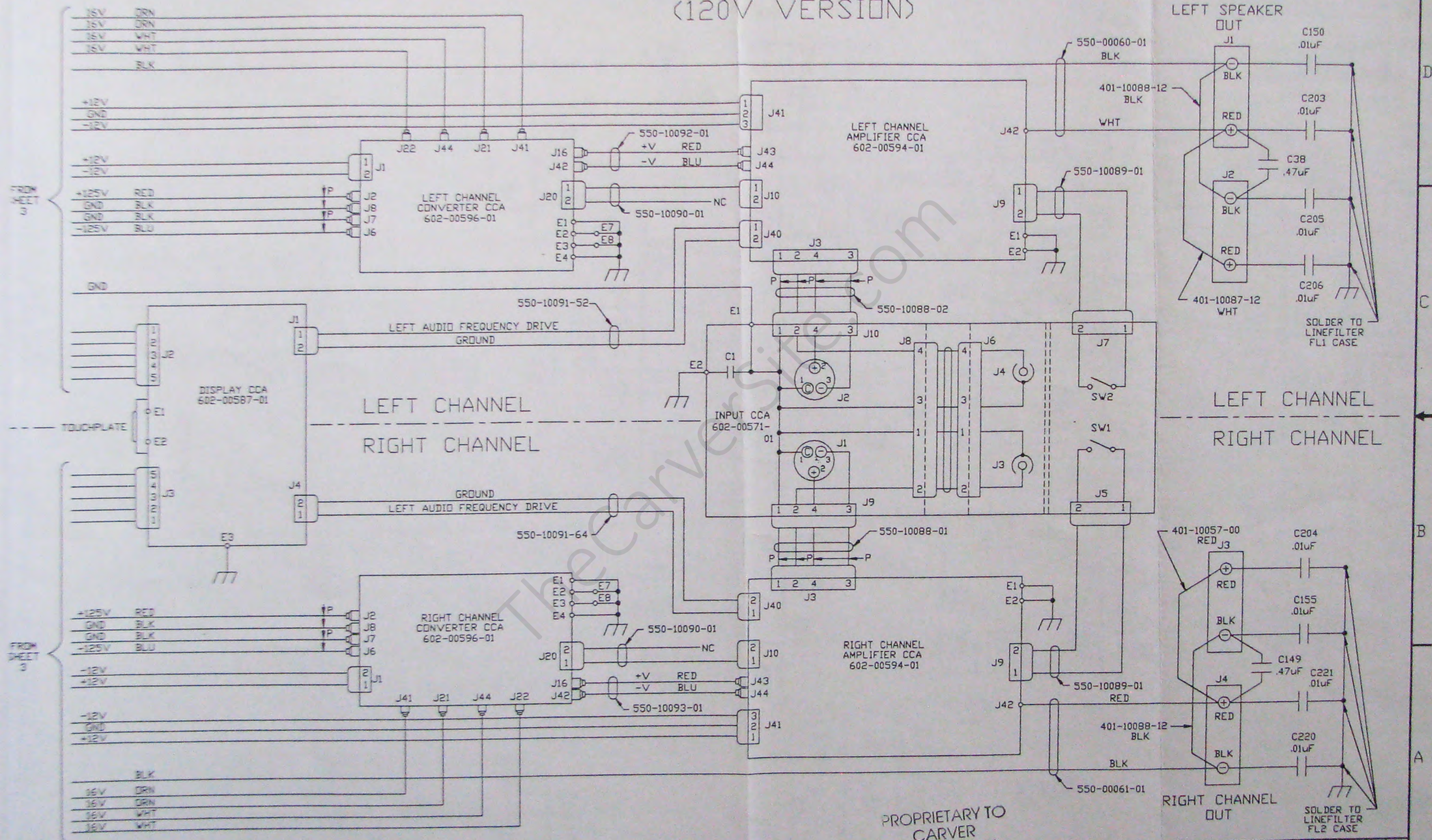


(120V VERSION)



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(120V VERSION)



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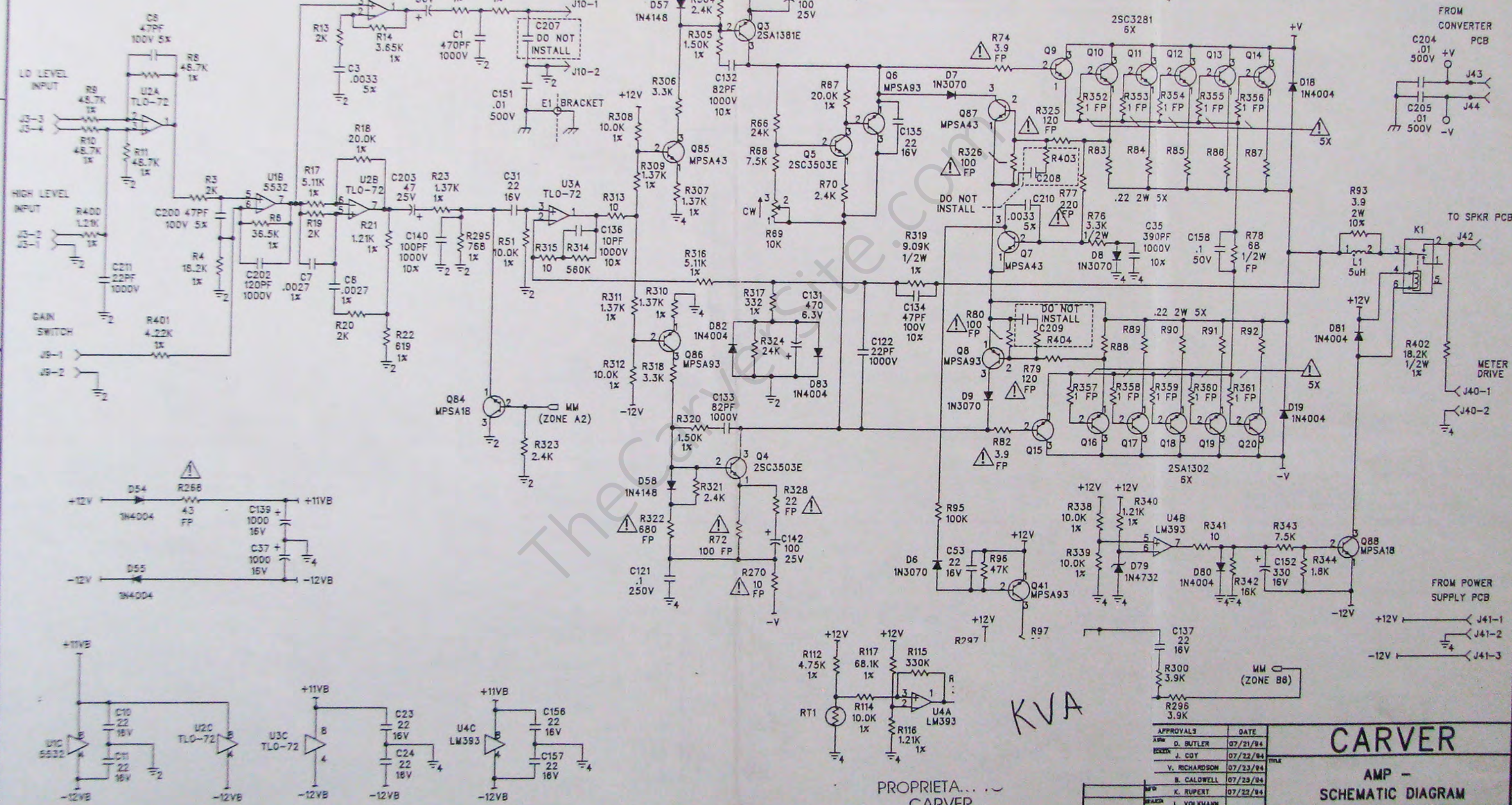
NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTORS: IN OHMS, 1/4W, 5X.
2. ALL CAPACITORS: IN μ F, ELECTROLYTIC, 20X.
3. ALL VOLTAGES AT IDLE CONDITIONS, 120VAC.
4. VARIABLE VOLTAGES:
V+ = +10V TO +125V.
V- = -10V TO -125V.
5. SAFETY CRITICAL. REPLACE WITH FACTORY AUTHORIZED PARTS ONLY.

REV. NO.		605-00594-01	1	REV C	1
ZONE		REV		REVISIONS	
A		1		PRODUCTION RELEASE	
B		2		PRODUCTION RELEASE	
C		3		WC ECO 3803	
				DATE	APPROVED
				10/07/94	MW
				11/21/94	MW

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PRODUCTION



PROPRIETARY TO
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KVA

APPROVALS	DATE
AWB D. BUTLER	07/21/94
ECR J. COY	07/22/94
V. RICHARDSON	07/23/94
B. CALDWELL	07/23/94
K. RUPERT	07/23/94
BRAD L. VOLKMAN	

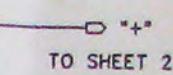
CARVER

AMP -
SCHEMATIC DIAGRAM

605-00594-01 C

PRODUCTION

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CARVER
CONFIDENTIAL



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL RESISTORS: IN OHMS, 1/4W, 5%.
2. ALL CAPACITORS: IN μ F, ELECTROLYTIC, 20%.
3. ALL VOLTAGES AT IDLE CONDITIONS, 120 VAC.
4. VARIABLE VOLTAGES:
V+ = +10V TO +125V.
V- = -10V TO -125V.
SAFETY CRITICAL.
REPLACE WITH FACTORY AUTHORIZED PARTS ONLY.

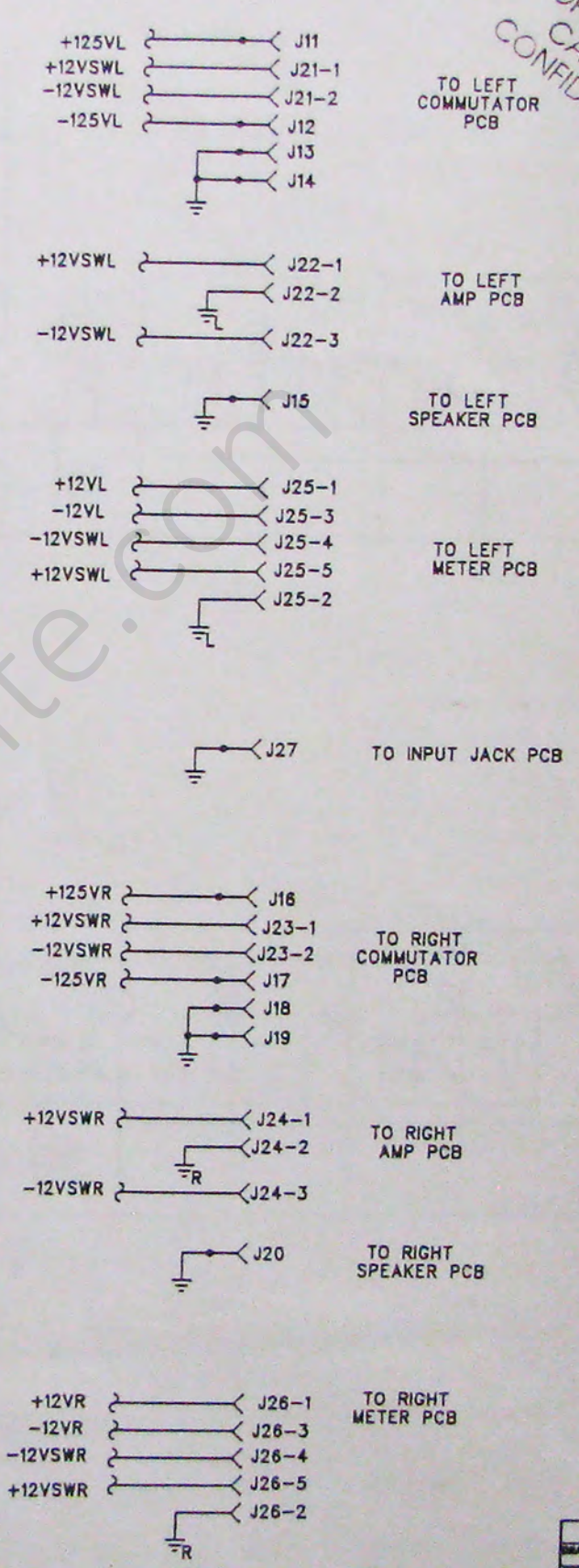
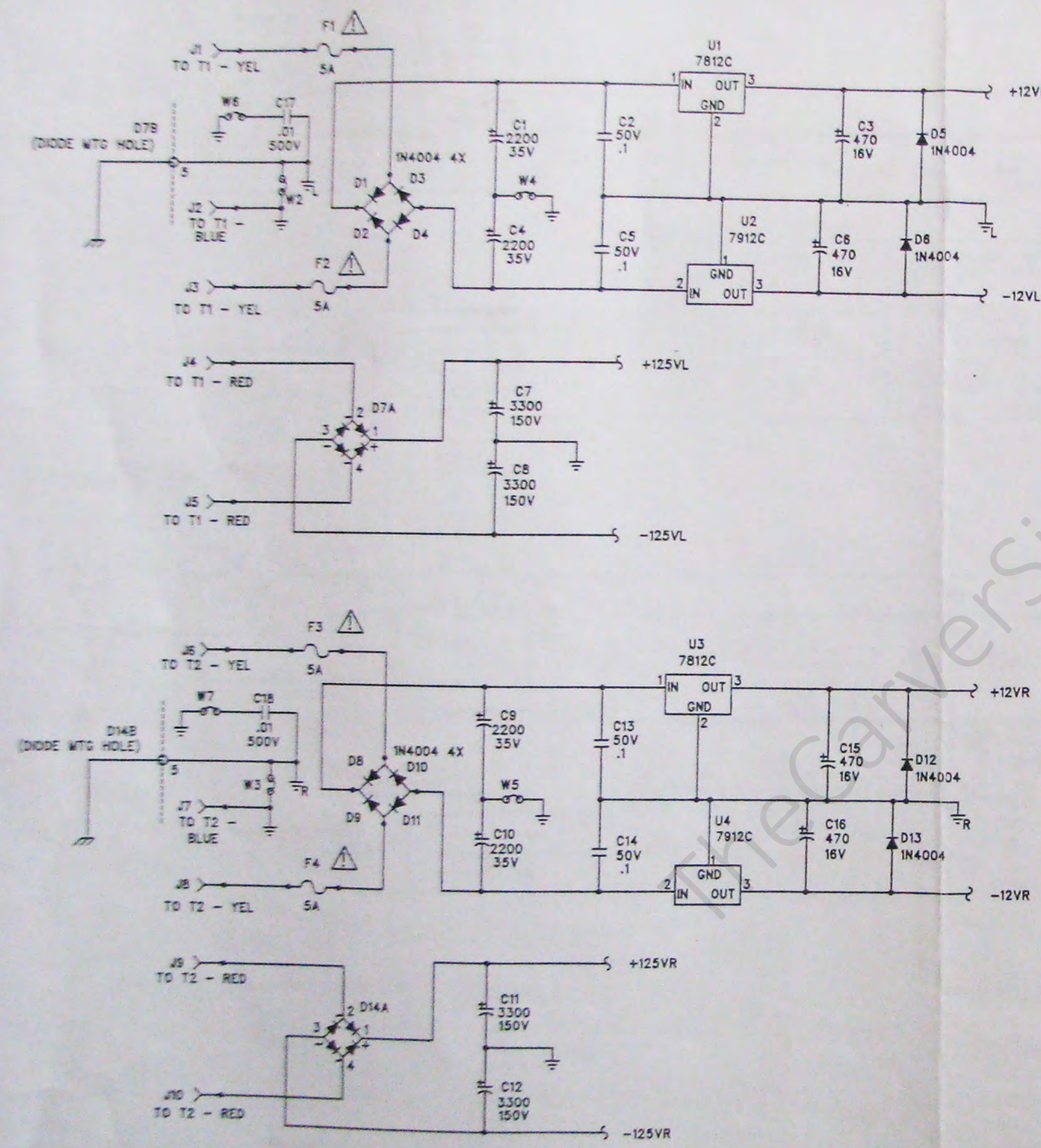
KVA
commutator

PROPRIETARY
CARVER
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		DATE		CARVER	
D. BUTLER		07/22/84			
CHECKED	J. COY	07/25/84		TITLE CONVERTER - SCHEMATIC DIAGRAM	
BY	V. RICHARDSON	07/25/84			
BY	B. CALDWELL	07/25/84			
BY	K. RUPERT	07/25/84			
BY	L. VOLKMAN				
LIGHTSTAR REF		REV		REV NO.	605-00596-01
USED ON		REASON	NONE	REV	A
				SHEET	1 OF 2

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PRODUCTION



Lightstar

Y TO
CONFIDENTIAL

- NOTES: UNLESS OTHERWISE SPECIFIED.
1. ALL CAPACITORS: IN μ F, ELECTROLYTIC, 20%.
 2. SAFETY CRITICAL PARTS, REPLACE ONLY WITH FACTORY AUTHORIZED PARTS.

APPROVALS		DATE
DESIGNED	D. BUTLER	03/28/84
CHECKED		
TESTED		
ASSEMBLED		
LIGHTSTAR KEY		
USED ON		

CARVER	
POWER SUPPLY, DUAL - SCHEMATIC DIAGRAM	
SIZE D	605-00606-01 A

From: CARVER::WELSCH 10-APR-1996 08:45:13.73
To: VANCOUR, ANDERSON, NYGREN, LORVICK
CC:
Subj: LIGHTSTAR METERS

IT HAS COME TO MY ATTENTION THAT THERE ARE 2 DIFFERENT LIGHTSTAR METERS.
THE BAD NEW IS THAT THEY ARE NOT COMPATABLE. THE NEW STYLE IS PHYSICALLY
LARGER THAN THE OLD STYLE. I TALKED TO VIC, HE SAID ABOUT 10 OLD STYLE METERS
WHICH HE GAVE TO ME. THESE ARE THE ONLY OLD STYLE METERS WE HAVE.
I CAN SEE A PROBLEM WHEN A CUSTOMER OR DEALER ORDERS A METER.
VIC SAID ABOUT 30 OF THE AMPS WERE BUILT WITH THE OLD STYLE METER.

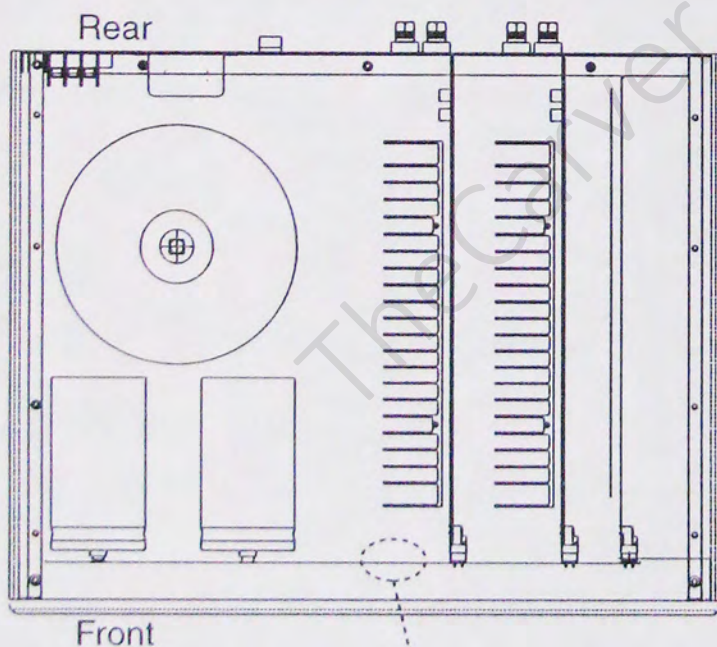
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Problem : If the customer wants to disable the front panel power switch so that the amplifier will turn on using the rear power switch. Then, if the rear panel switch is left in the "on" position, the amplifier can be turned on and off using a switched wall outlet or power strip.

Solution : Cut wire jumper W7 on the front circuit board.
No disassembly is necessary other than taking off the top cover.

Procedure :

1. Unplug the power cord and remove the top cover. Let the power supplies discharge for a while before proceeding.
2. Locate the wire jumper W7 on the front circuit board as shown in the diagram below.
3. Lift one end of this jumper or remove it completely.
4. Replace the top cover.
5. Verify that the amplifier will now turn on just using the rear panel power switch, and the front switch will have no effect.



Wire jumper W7 is in this area on the rear face of the front circuit board.
It is located closer to the top edge.
The board is double-sided, and W7 is easy to reach.

Service Approval

Date

9/15/97

Engineering Approval

Date

9-15-97

CARVER CORPORATION

SERVICE BULLETIN

Service Bulletin # LS-Ref-1	Model: Lightstar Reference	Serial Nos. Below #9542040001
REASON: The amplifier has been found to exhibit parasitic oscillation under certain conditions.		Date: 5/15/95
		Ref. ECO # 3937

DELETE			ADD		
Qty 2	Cap, 22 μ F/16V, Lytic, Radial	C11 (x2)	Qty 2	Cap, 470 μ F/16V, Lytic, Radial P/N 205-00021-00	C11 (x2)
Qty 2	Cap, 50pF, Cer Disc	C122 (x2)	Qty 2	Cap, 120pF, Cer Disc P/N 201-00013-00	C122 (x2)
Qty 4	Cap, 82pF, Cer Disc	C132, C133 (x2)	Qty 4	Cap, 120pF, Cer Disc P/N 201-00013-00	C132, C133 (x2)

PROCEDURE

This procedure should be performed on all Lightstar Reference amplifiers with a serial number prior to S/N 9542040001. The procedure involves replacing four capacitors on each amplifier board.

Tools required: 3/16" Allen Hex Driver
3/32" Allen Hex Driver (long shaft)
7/64" Allen Hex Driver (long shaft)
Phillips Screwdriver

Disassembly

1. Turn the power switches off and disconnect the linecords from the AC mains.

Remove Pedestal

2. Prepare the work space by spreading out a soft cloth or other material on which the amplifier can be laid without danger of scratching the finish.
3. Turn the amplifier upside down so the feet are pointing up and the front is facing forward.
4. Remove four socket-head bolts using a 3/16" Allen Hex Driver.
5. Remove the bottom plate.
6. Remove 2 round spacers from the back two holes and one long spacer from the front two holes.

Remove Screen

7. Remove 8 screws securing the screen to the chassis using a Phillips screwdriver.
8. Lift screen off of chassis.

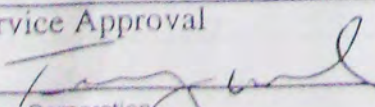
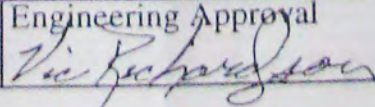
At this point, verify whether it is necessary to proceed. Look at the capacitors that are to be replaced and determine if they are the old values or the new values. If the capacitors have the new values you need not continue; reassemble the amplifier by reversing the above procedure. If the capacitors have the old values, proceed with the next step.

Remove Amplifier Boards

9. Clip and remove 1 cable tie from the left corner of the rear Amplifier Board (see Figure 1).
10. Remove all connectors from the Amplifier Boards. These include: J41, J42, J40, J9, J10, J3, J43, J44.
11. Remove the socket-head screws from all the output devices and Q5 on both Amplifier Boards using a 3/32" Allen Hex Driver.
12. Remove the socket-head screws from the ground terminals using a 7/64" Allen Hex Driver.
13. Carefully pull the cables running over the top of the Amplifier Boards to the right (when facing the front of the amplifier). Lift up on the left side of one Amplifier Board and angle it out from under the cables. Repeat for the other Amplifier Board.
14. Replace C11, C122, C132 and C133 on each amplifier board (see Figure 2).

Ref Designation	Was	Is
C11	22 μ F/16V	470 μ F/16V
C122	50pF	120pF
C132, C133	82pF	120pF

(Continued on page 2)

Service Approval  5/15/95	Engineering Approval  5/15/95
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CARVER CORPORATION

SERVICE BULLETIN

Service Bulletin # LS-Ref-1

Model: Lightstar Reference

Serial Nos. See page 1

Reassembly

1. Reinstall the Amplifier Boards, being careful to keep the insulating Sil-Pad strip properly aligned underneath the output devices.
2. Reinstall all the screws into the output devices, Q5 and the ground terminals. Torque them to 17 in/lbs.
3. Plug all connectors back into the boards. Make sure to get them all plugged back into their correct position, and that all the pins are correctly aligned.
4. Install a new cable tie on the left corner of the rear Amplifier Board (3-3/8" cable tie, Carver P/N 159-50001-01).
5. Reinstall the screen, spacers and bottom plate.

Verify proper operation of amplifier before returning to customer.

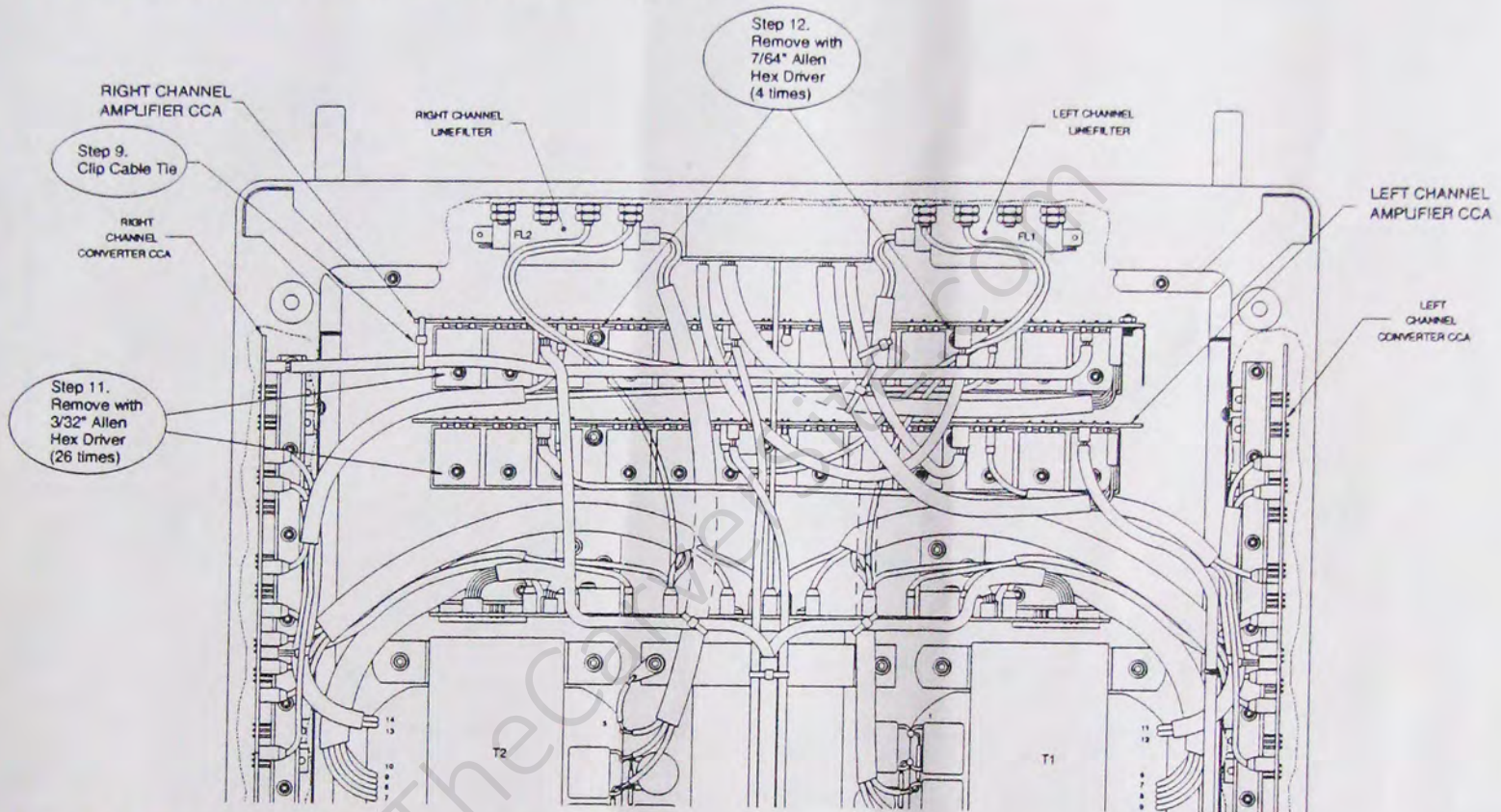


Figure 1 Lightstar Reference Assembly

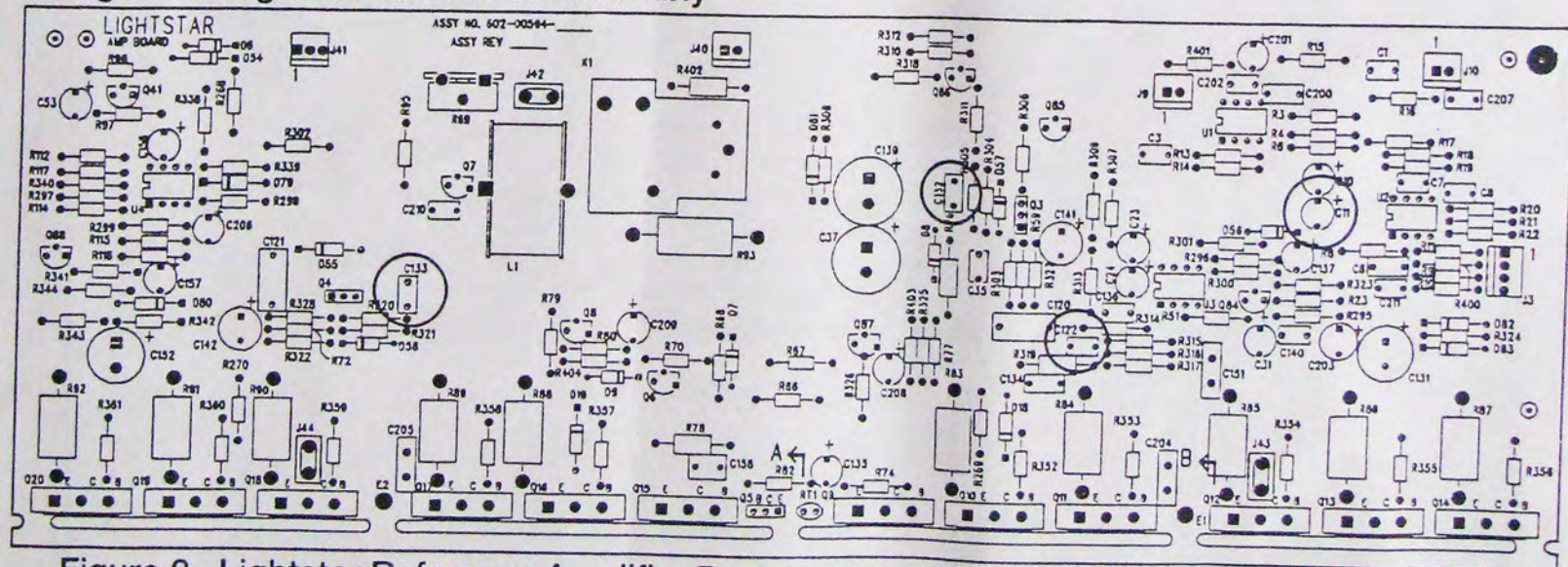


Figure 2 Lightstar Reference Amplifier Board