

TP	CONDITION "A"	CONDITION "B"	CONDITION "C"
1			
2			
3			
4			
5			
6			
7			
8			
9*			

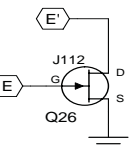
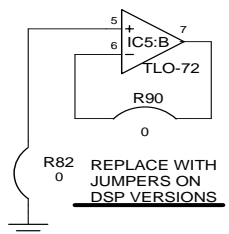
**Note Table**

1) CONDITION "A" : SOLO CHANNEL  
GAIN & LEVEL @ '10', SHAPE @ '5'.  
1kHz 130mV SINE WAVE INPUT

2) CONDITION "B" : OVERDRIVE CHANNEL  
GAIN & LEVEL @ '10', LOW, MID & HIGH @ '5'.  
1kHz 130mV SINE WAVE INPUT

3) CONDITION "C" : CLEAN CHANNEL  
VOLUME @ 10, LOW, MID, HIGH @ 5.  
1kHz 130mV SINE WAVE INPUT

\* FOR TEST POINT 9, PUT A 150 OHM RESISTOR FROM J6 TO J7.



RefDes	-15V	+15V
IC1	4	8
IC2	4	8
IC3	4	8
IC4	4	8
IC5	4	8

**CAUTION:**  
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**NOTES:**

1) CAUTION: SHOCK HAZARD!! THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.

2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL. CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.

3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.

REV	Date	DESCRIPTION	Ecr(s)/Ecn(s)	Chgd By	Appvd by	Date
1	6/26/03	CHG'D C36 FROM .1 TO .01 UF.	N01177	REM		
0	11/27/02	CONTROL ISSUE				

THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.

Signatures:	Date:
Drawn: REM	8/30/02
Checked:	
Released:	

11880 Borman Drive, St. Louis, MO 63146  
First Used On: GTX212d

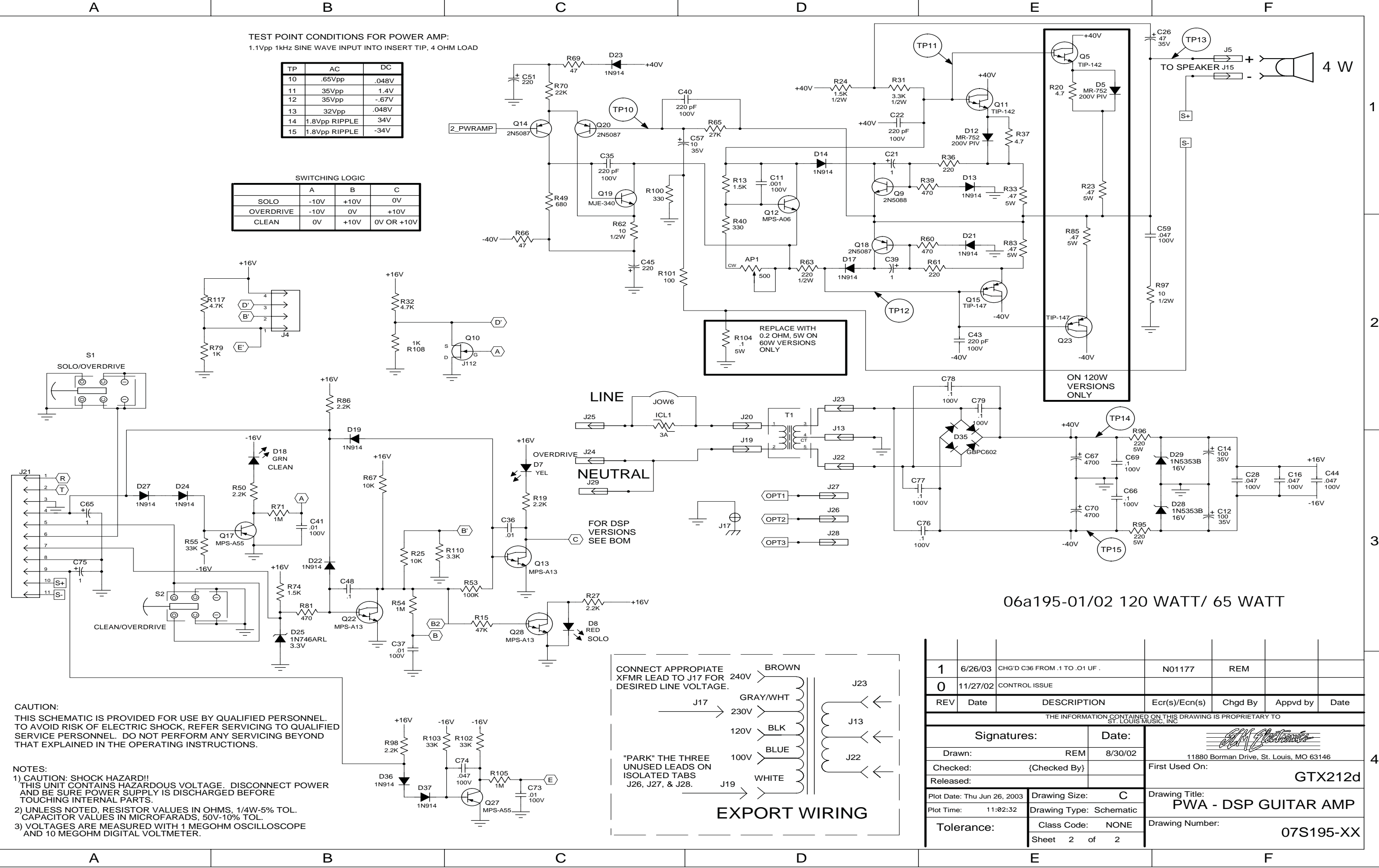
Plot Date: Thu Jun 26, 2003	Drawing Size: C	Drawing Title: PWA - DSP GUITAR AMP
Plot Time: 11:02:32	Drawing Type: Schematic	Drawing Number: 07S195-XX
Tolerance:	Class Code: NONE	Sheet 1 of 2

TEST POINT CONDITIONS FOR POWER AMP:  
1.1Vpp 1kHz SINE WAVE INPUT INTO INSERT TIP, 4 OHM LOAD

TP	AC	DC
10	.65Vpp	.048V
11	35Vpp	1.4V
12	35Vpp	-.67V
13	32Vpp	.048V
14	1.8Vpp RIPPLE	34V
15	1.8Vpp RIPPLE	-34V

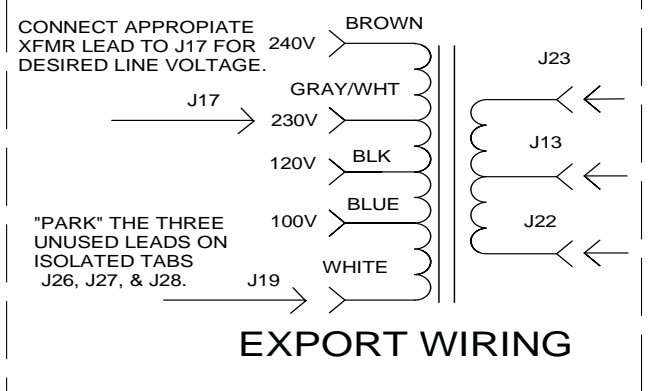
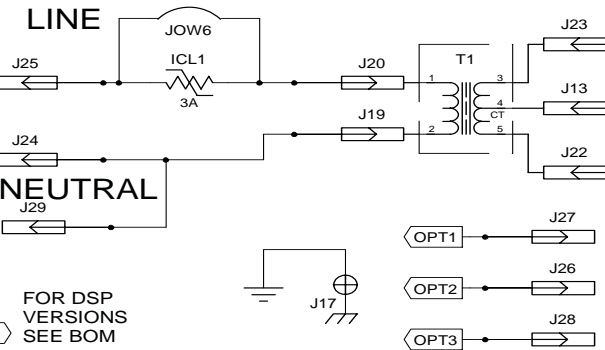
SWITCHING LOGIC

	A	B	C
SOLO	-10V	+10V	0V
OVERDRIVE	-10V	0V	+10V
CLEAN	0V	+10V	0V OR +10V



REPLACE WITH  
0.2 OHM, 5W ON  
60W VERSIONS  
ONLY

ON 120W  
VERSIONS  
ONLY



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- NOTES:
- 1) CAUTION: SHOCK HAZARD!!  
THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER  
AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE  
TOUCHING INTERNAL PARTS.
  - 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.  
CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
  - 3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE  
AND 10 MEGOHM DIGITAL VOLTMETER.

06a195-01/02 120 WATT/ 65 WATT

REV	Date	DESCRIPTION	Ecr(s)/Ecn(s)	Chgd By	Appvd by	Date
1	6/26/03	CHG'D C36 FROM .1 TO .01 UF.	N01177	REM		
0	11/27/02	CONTROL ISSUE				

THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO  
ST. LOUIS MUSIC, INC.

Signatures: \_\_\_\_\_ Date: 8/30/02

Drawn: REM (Checked By)

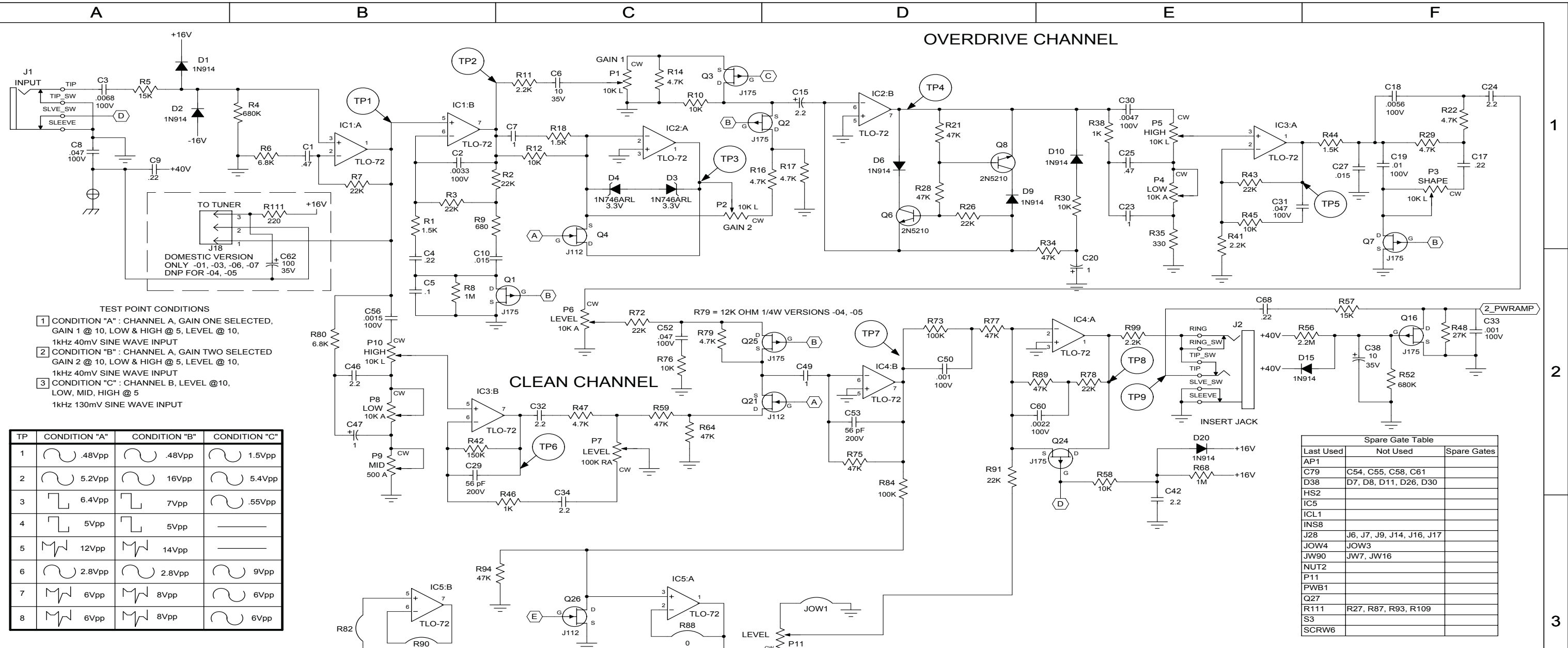
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Released: \_\_\_\_\_

Plot Date: Thu Jun 26, 2003 Drawing Size: C Drawing Title: PWA - DSP GUITAR AMP

Plot Time: 11:02:32 Drawing Type: Schematic Drawing Number: 07S195-XX

Tolerance: \_\_\_\_\_ Class Code: NONE Sheet 2 of 2



- TEST POINT CONDITIONS
- CONDITION "A": CHANNEL A, GAIN ONE SELECTED, GAIN 1 @ 10, LOW & HIGH @ 5, LEVEL @ 10, 1kHz 40mV SINE WAVE INPUT
  - CONDITION "B": CHANNEL A, GAIN TWO SELECTED, GAIN 2 @ 10, LOW & HIGH @ 5, LEVEL @ 10, 1kHz 40mV SINE WAVE INPUT
  - CONDITION "C": CHANNEL B, LEVEL @ 10, LOW, MID, HIGH @ 5, 1kHz 130mV SINE WAVE INPUT

TP	CONDITION "A"	CONDITION "B"	CONDITION "C"
1	~ .48Vpp	~ .48Vpp	~ 1.5Vpp
2	~ 5.2Vpp	~ 16Vpp	~ 5.4Vpp
3	~ 6.4Vpp	~ 7Vpp	~ .55Vpp
4	~ 5Vpp	~ 5Vpp	---
5	~ 12Vpp	~ 14Vpp	---
6	~ 2.8Vpp	~ 2.8Vpp	~ 9Vpp
7	~ 6Vpp	~ 8Vpp	~ 6Vpp
8	~ 6Vpp	~ 8Vpp	~ 6Vpp

RefDes	Part Number	+16V	-16V
IC1	37-072-01	8	4
IC2	37-072-01	8	4
IC3	37-072-01	8	4
IC4	37-072-01	8	4
IC5	37-072-01	8	4

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- NOTES:
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  - UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL. CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
  - VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.

DSP VERSION (USES 06A279-02 PWB)  
 ASSY # 07-279-01 65 WATT VERSION  
 ASSY# 07-279-03 120 WATT VERSION  
 ASSY# 07-279-04 65W EURO VERSION  
 ASSY# 07-279-05 120W EURO VERSION  
 ASSY# 07-279-06 65W TUNER VERSION  
 ASSY# 07-279-07 120W TUNER VERSION

Last Used	Not Used	Spare Gates
AP1		
C79	C54, C55, C58, C61	
D38	D7, D8, D11, D26, D30	
HS2		
IC5		
ICL1		
INS8		
J28	J6, J7, J9, J14, J16, J17	
JOW4	JOW3	
JW90	JW7, JW16	
NUT2		
P11		
PWB1		
Q27		
R111	R27, R87, R93, R109	
S3		
SCRW6		

REV	Date	DESCRIPTION	Ecr(s)/Ecn(s)	Chgd By	Appvd by	Date
3	04/17/03	ADDED -06, -07 CONFIG	N01172	WFB		
2	3/7/02	ADDED -04, -05 ASSY	N00769	WFB		
1	10/24/01	PWB FROM -01 TO -02; ADDED TUNER CIRCUIT 1 CAPS TO DIODE BRIDGE. ASSY -02 TO -03 ADDED -01 ASSY.	N00679	REM		
0	3/12/01	CONTROL ISSUE				

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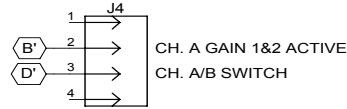
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Drawn: WFB		8/11/00
Checked:		
Released:		
Plot Date: Thu Apr 17, 2003	Drawing Size: C	Drawing Title: PWA - GUITAR AMP
Plot Time: 10:24:56	Drawing Type: Schematic	Drawing Number: 07S279-XX
Tolerance:	Class Code: NONE	
	Sheet 1 of 2	

TEST POINT CONDITIONS FOR POWER AMP:  
1kHz SINE WAVE INPUT INTO INSERT TIP, 4 OHM LOAD

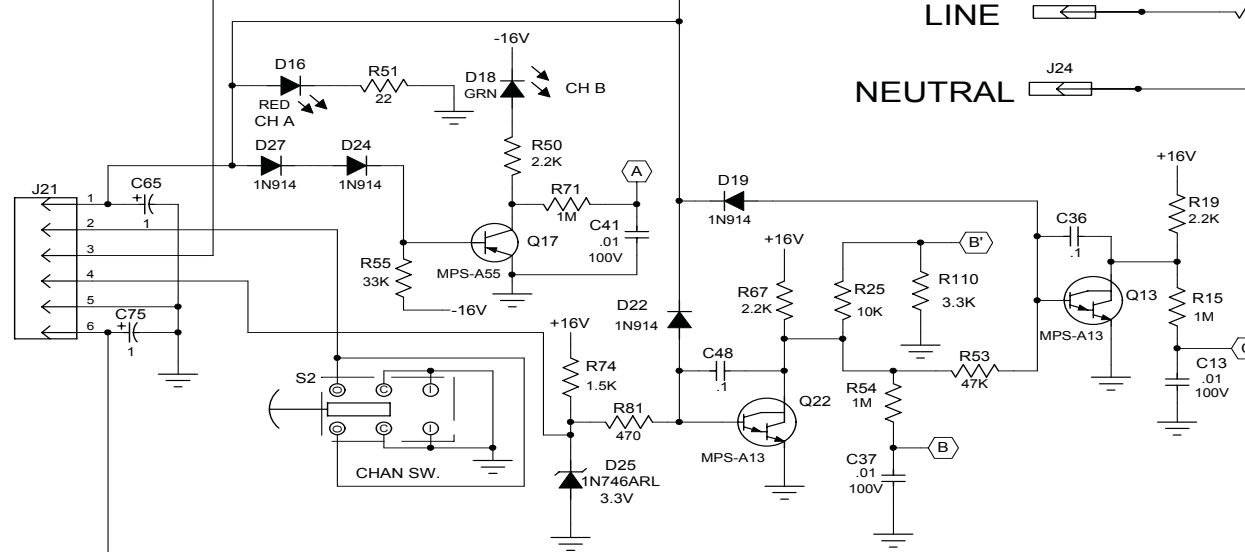
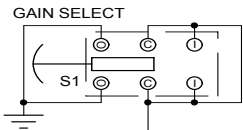
TP	AC	DC
9	1Vpp	0V
10	.65Vpp	.23V
11	32.5Vpp	1.3V
12	32.5Vpp	-.06V
13	30Vpp	0V
14	1.5Vpp RIPPLE	35V
15	1.5Vpp RIPPLE	-35V
16	.5Vpp RIPPLE	10V

SWITCHING LOGIC

	A	B	C
CH A GAIN 1	-10V	+10V	0V
CH A GAIN 2	-10V	0V	+10V
CH B CLEAN	0V	+10V	0V OR +10V



DSP VERSION  
ASSY# 07-279-02

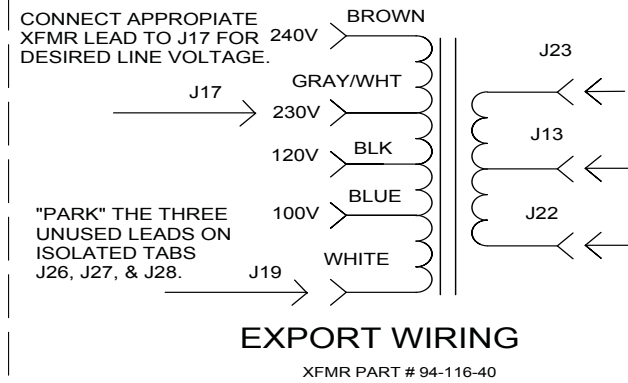


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LINE  
NEUTRAL

- DSP VERSION (USES 06A279-02 PWB) :  
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ASSY# 07-279-03 120 WATT VERSION  
ASSY# 07-279-04 65W EURO VERSION  
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ASSY# 07-279-06 65W TUNER VERSION  
ASSY# 07-279-07 120W TUNER VERSION



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0	3/12/01	CONTROL ISSUE				

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Drawn: WFB		8/11/00		11880 Borman Drive, St. Louis, MO 63146		
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Released:						
Plot Date: Thu Apr 17, 2003		Drawing Size: C		Drawing Title:		
Plot Time: 10:24:56		Drawing Type: Schematic		PWA - GUITAR AMP		
Tolerance:		Class Code: NONE		Drawing Number:		
		Sheet 2 of 2		07S279-XX		