



US Model # 99-060-1515
 Australian Model # 99-060-1511
 European Model # 99-060-1512
 Japanese Model # 99-060-1513
 UK Model # 99-060-1514

Multi FX pedal
[Table of Contents](#)

**POD HD 300: Engineering
 code name P16-2 Spider live**

Contents	Notes
Main, Footswitch, Mid UI, and Pedal Schematics	Schematic titles are by internal engineering product code name
Calibration and Test document	Takes unit through self calibration of pedals switches and LEDs
Disassembly instructions	See POD HD 500 Disassembly instructions
BOM	See for alternate part numbers not included in Disassembly inst



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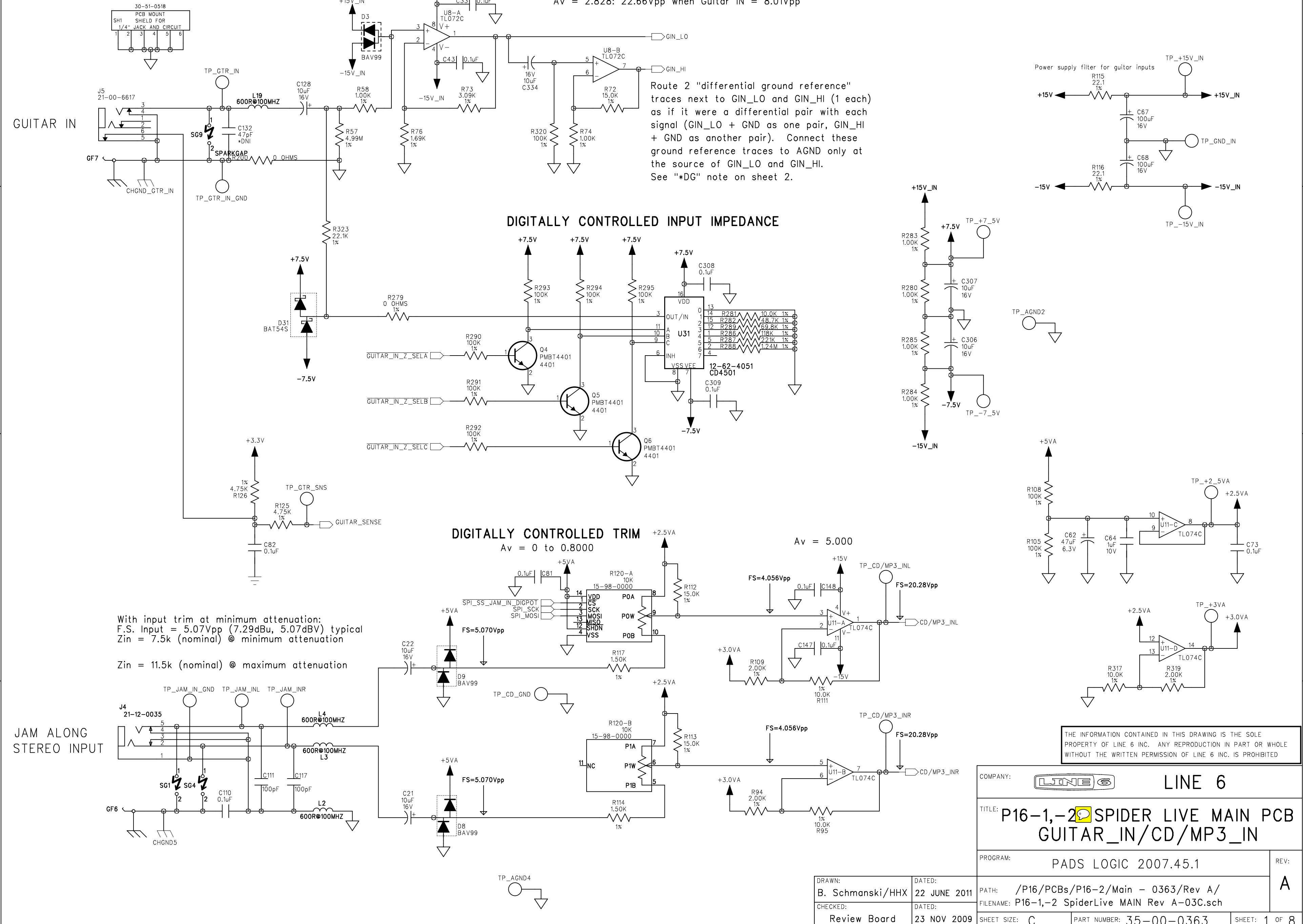
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1

"FS" = Full Scale (full ADC/DAC modulation, just before clipping)

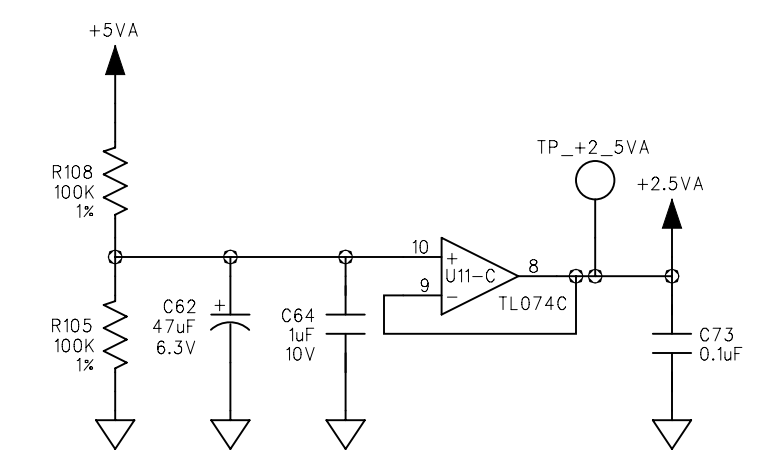
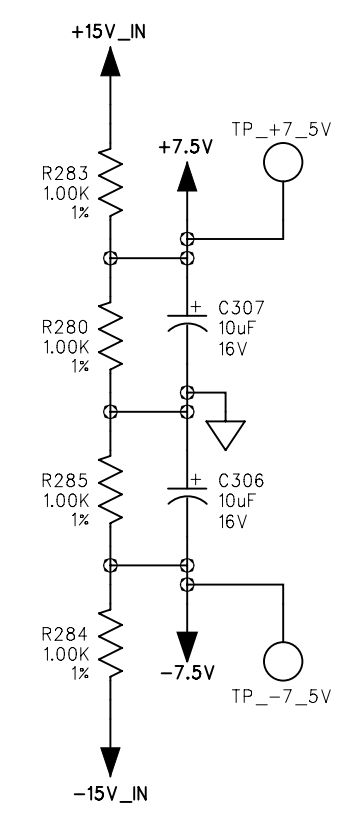
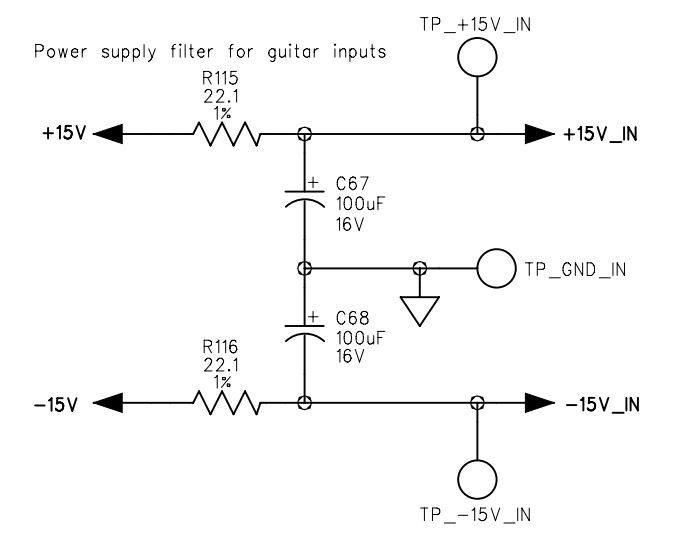
*DNI = DO NOT INSTALL

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
-	-	-
-	-	-



With input trim at minimum attenuation:
 F.S. Input = 5.07Vpp (7.29dBu, 5.07dBV) typical
 Zin = 7.5k (nominal) @ minimum attenuation

Zin = 11.5k (nominal) @ maximum attenuation



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COMPANY:	LINE 6	
TITLE:	P16-1,-2 SPIDER LIVE MAIN PCB GUITAR_IN/CD/MP3_IN	
PROGRAM:	PADS LOGIC 2007.45.1	REV:
		A
DRAWN:	DATED:	PATH:
B. Schmanski/HHX	22 JUNE 2011	/P16/PCBs/P16-2/Main - 0363/Rev A/
CHECKED:	DATED:	FILENAME:
Review Board	23 NOV 2009	P16-1,-2 SpiderLive MAIN Rev A-03C.sch
SHEET SIZE:	PART NUMBER:	SHEET:
C	35-00-0363	1 OF 8

CODEC1

"FS" = Full Scale (full ADC/DAC modulation, just before clipping)

***DNI = DO NOT INSTALL**

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
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C

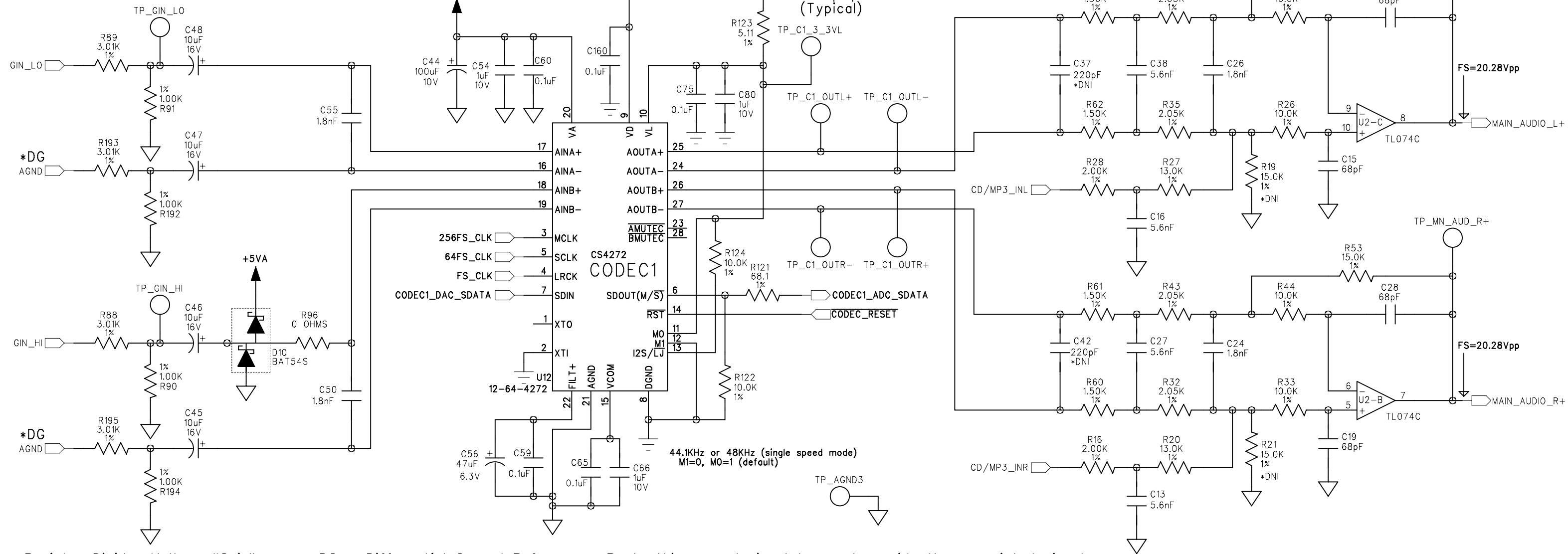
C

CODEC inputs are
5.65Vp-p single-ended/diff max

ADC/DAC Dynamic Range, S/N = -114dB

CODEC outputs are
2.4Vp-p Single Ended /
4.8Vp-p differential
(Typical)

Filter Gain (Av) = 4.225



Resistor Divider Voltage "Gain"
Av = 1/4.01 (Attenuation)

*DG = Differential Ground Reference. Route this ground signal trace along side the associated signal trace, and connect it to the ground plane only at the source of that signal. In this case, these "ground" traces should connect to the GND plane as close as possible to U12. See note on sheet 1.

HEADPHONE AMPLIFIER

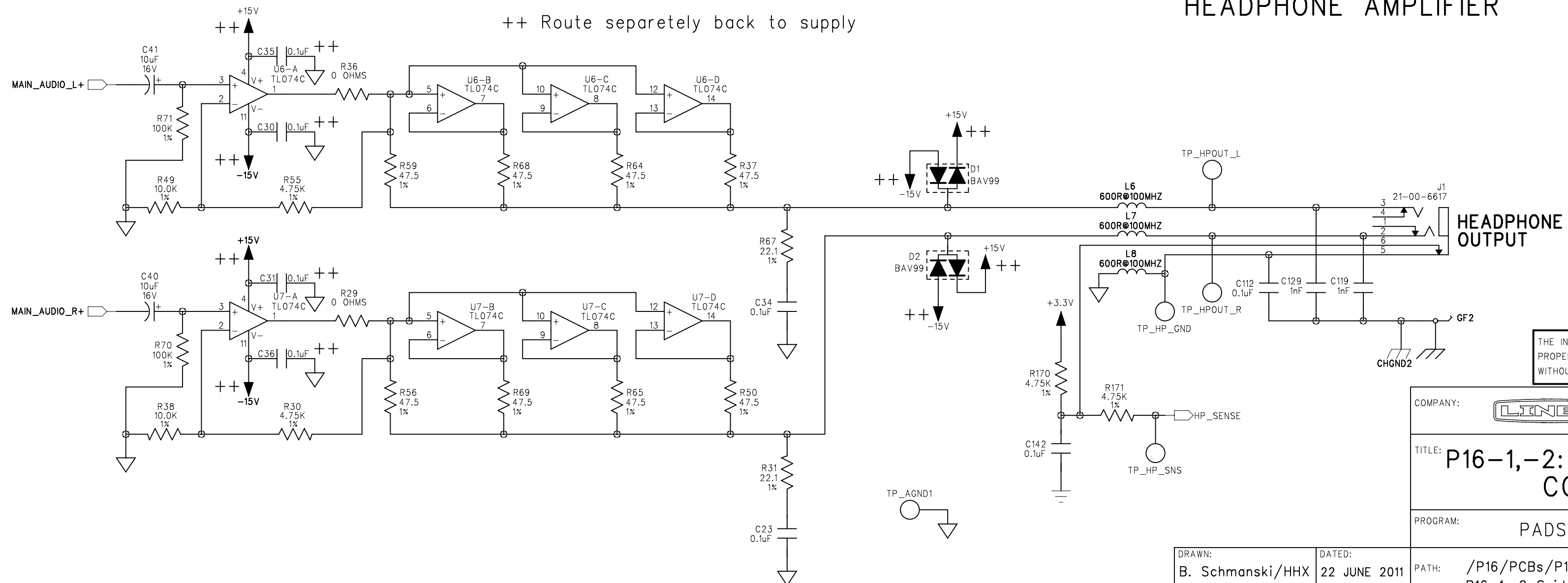
++ Route separately back to supply

B

B

A

A



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COMPANY:		LINE 6
TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB CODEC1/HP_AMP	
PROGRAM:	PADS LOGIC 2007.45.1	REV: A
DRAWN:	B. Schmanski/HHX	DATED: 22 JUNE 2011
CHECKED:	Review Board	DATED: 23 NOV 2009
PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/	
FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch	
SHEET SIZE:	C	PART NUMBER: 35-00-0363
		SHEET: 2 OF 8

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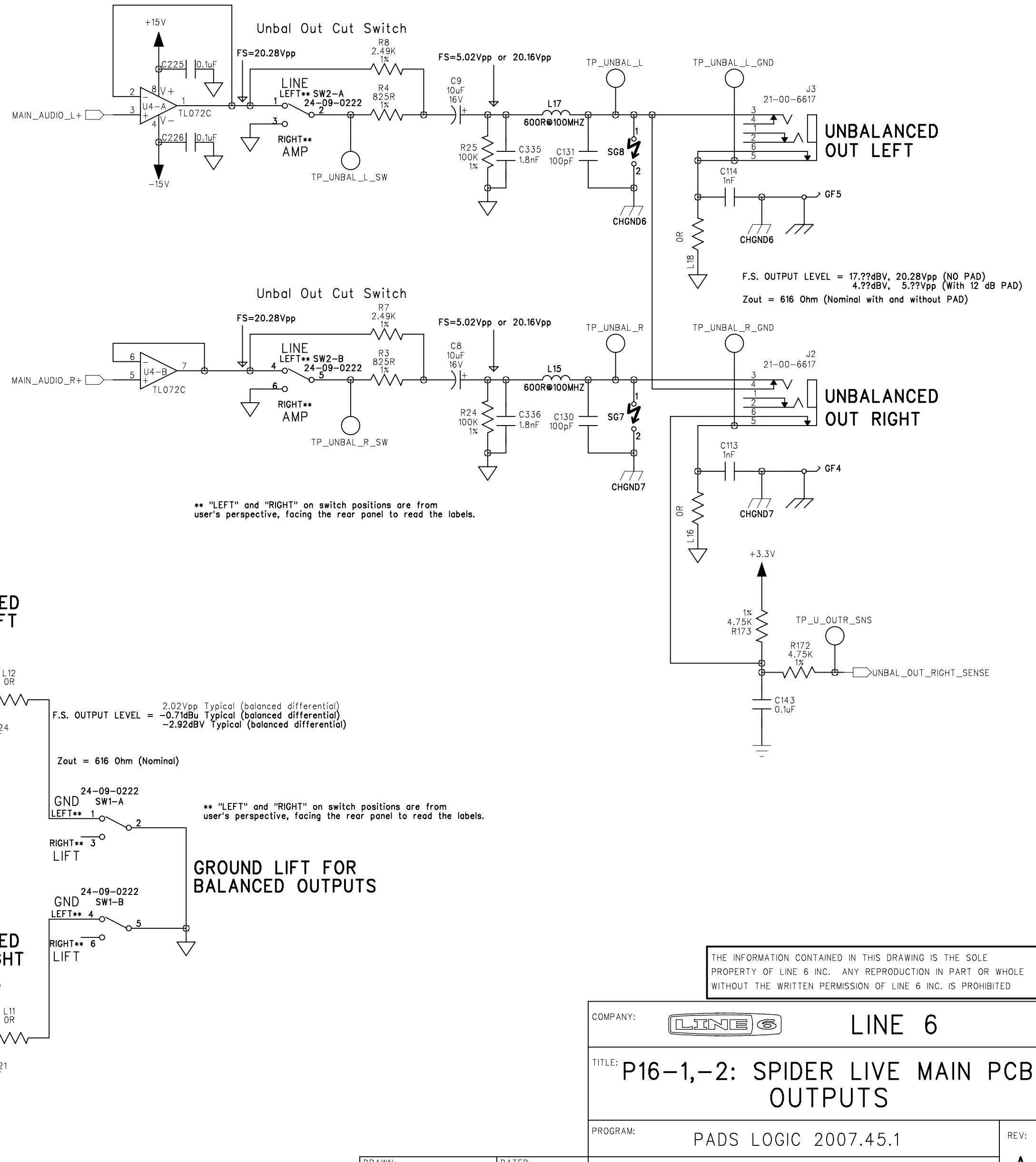
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"FS" = Full Scale (full ADC/DAC modulation, just before clipping)

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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
-	-	-
-	-	-

$A_v = 0.2473$ or 0.9939
 (Includes effect of
 100k res to ground)



** "LEFT" and "RIGHT" on switch positions are from user's perspective, facing the rear panel to read the labels.

** "LEFT" and "RIGHT" on switch positions are from user's perspective, facing the rear panel to read the labels.

F.S. OUTPUT LEVEL = $2.02V_{pp}$ Typical (balanced differential)
 $-0.71dBu$ Typical (balanced differential)
 $-2.92dBV$ Typical (balanced differential)

$Z_{out} = 616 \text{ Ohm}$ (Nominal)

GROUND LIFT FOR BALANCED OUTPUTS

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COMPANY:	LINE 6
TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB OUTPUTS
PROGRAM:	PADS LOGIC 2007.45.1
REV:	A

DRAWN:	B. Schmanski/HHX	DATED:	22 JUN 2011	PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/
CHECKED:	Review Board	DATED:	23 NOV 2009	FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch
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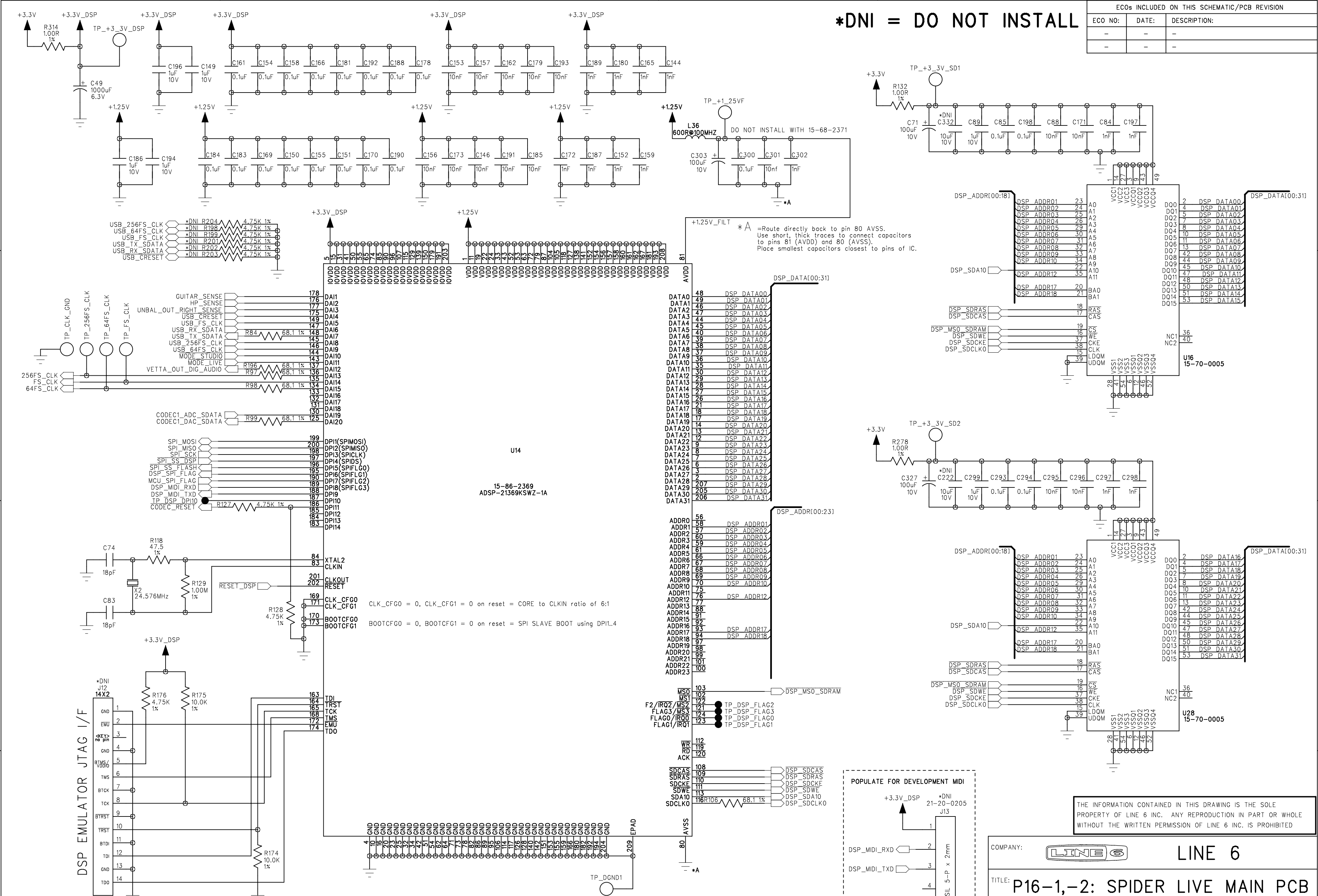
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*DNI = DO NOT INSTALL

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TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB DSP		
PROGRAM:	PADS LOGIC 2007.45.1		
PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/		
FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch		
SHEET SIZE:	C	PART NUMBER:	35-00-0363
DRAWN:		DATED:	
B. Schmanski/HHX		22 JUNE 2011	
CHECKED:		DATED:	
Review Board		23 NOV 2009	

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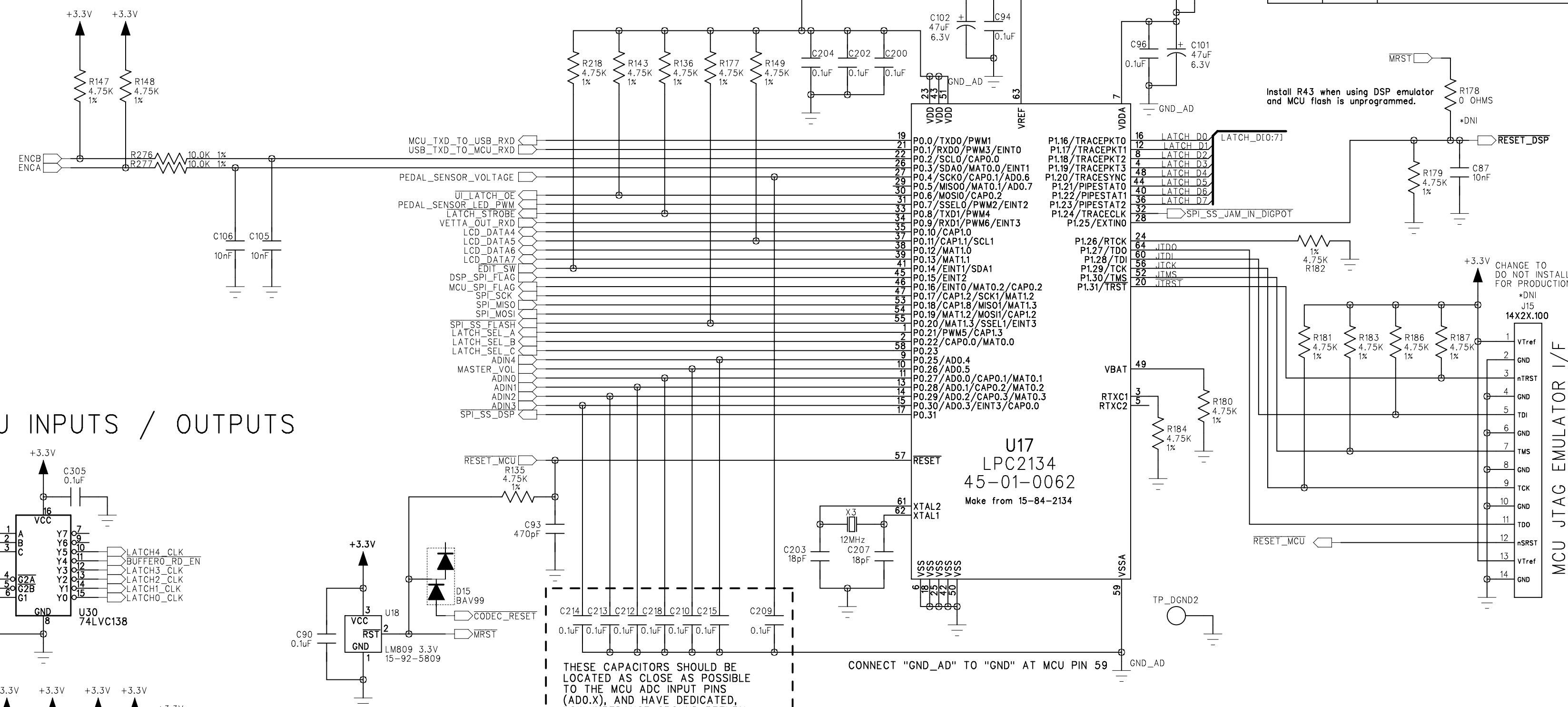
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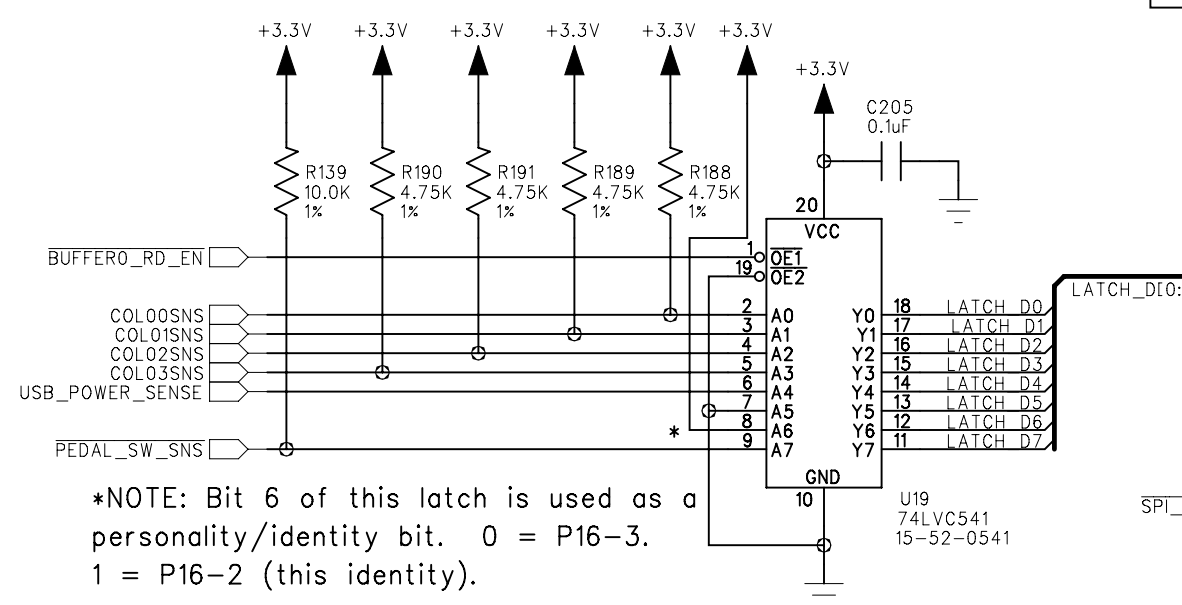
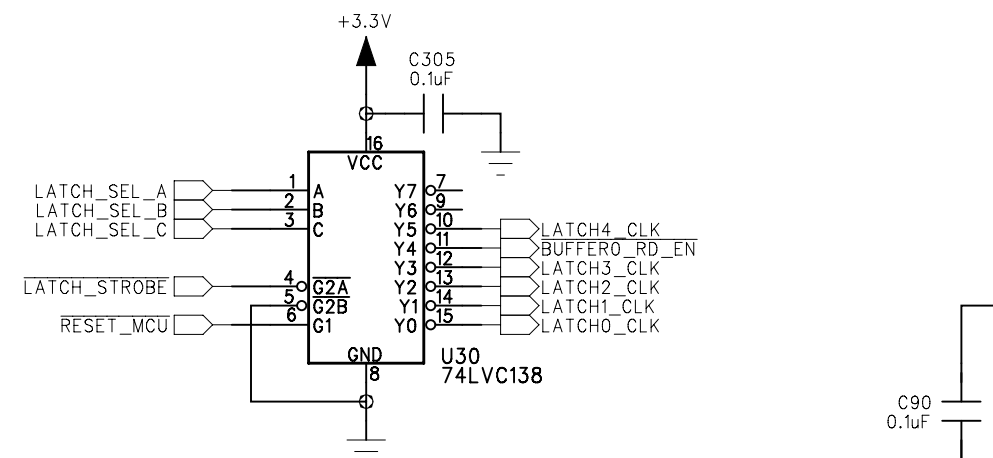
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*DNI = DO NOT INSTALL

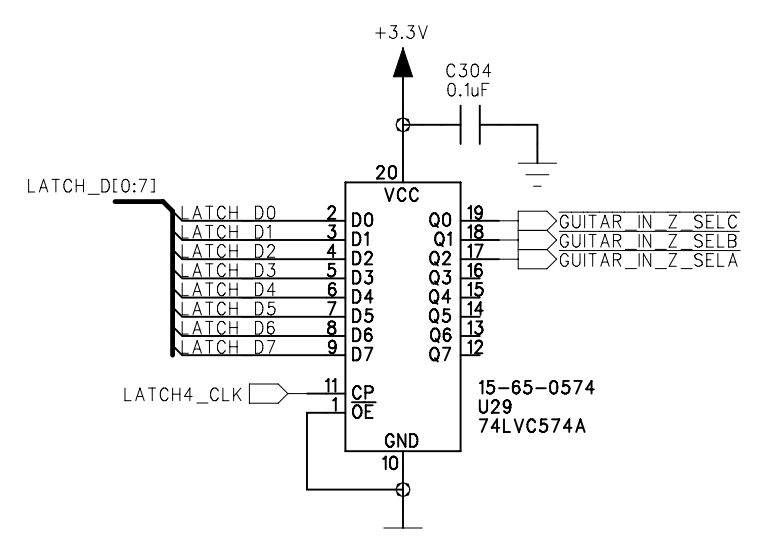
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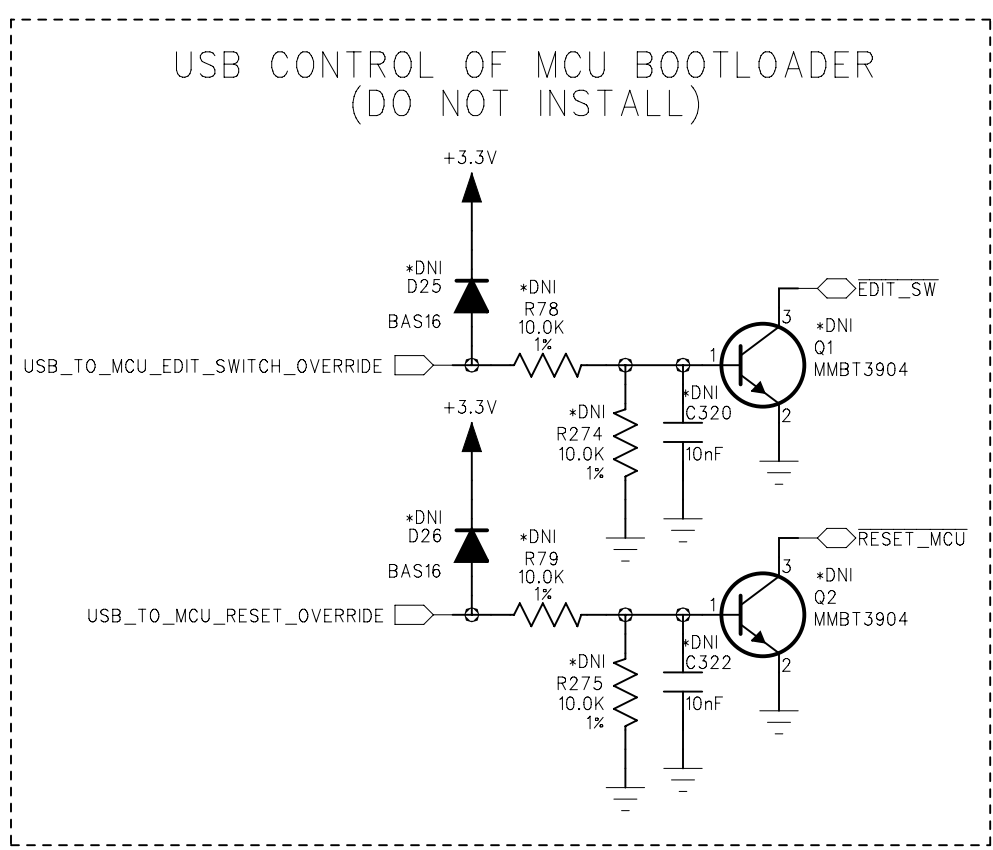
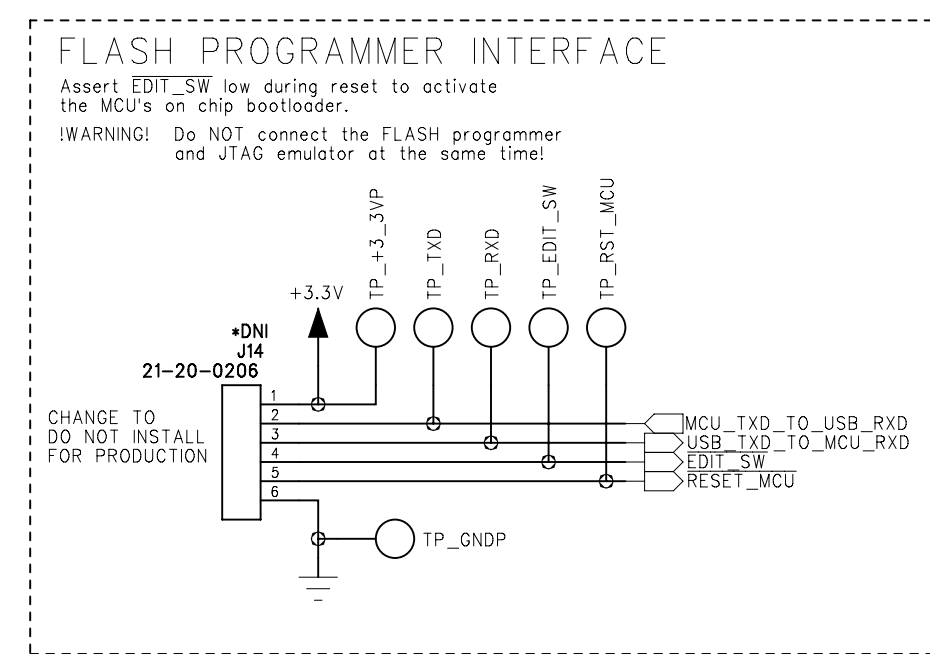
ADDITIONAL MCU INPUTS / OUTPUTS



*NOTE: Bit 6 of this latch is used as a personality/identity bit. 0 = P16-3. 1 = P16-2 (this identity).



THESE CAPACITORS SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE MCU ADC INPUT PINS (AD0.X), AND HAVE DEDICATED, LOW IMPEDANCE GROUND RETURN TO MCU PIN 59 (VSSA).



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COMPANY:	LINE 6	REV:	A
TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB MCU		
PROGRAM:	PADS LOGIC 2007.45.1	PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/
CHECKED:	Review Board	FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch
DRAWN:	B. Schmanski/HHX	SHEET SIZE:	C
DATED:	22 JUNE 2011	PART NUMBER:	35-00-0363
CHECKED:		SHEET:	5 OF 8
DATED:	23 NOV 2009		

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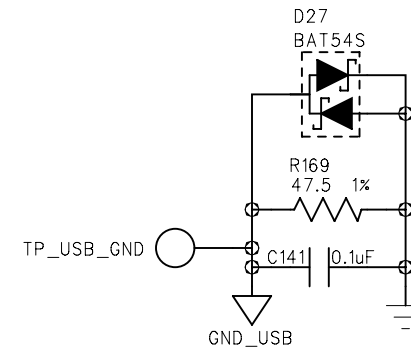
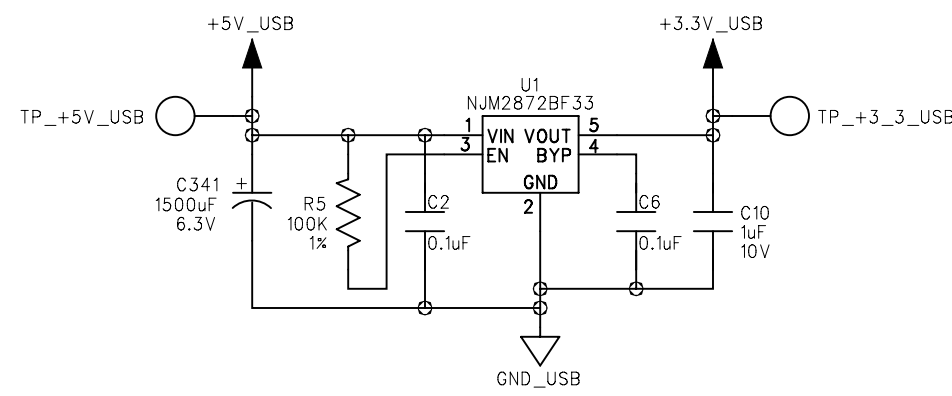
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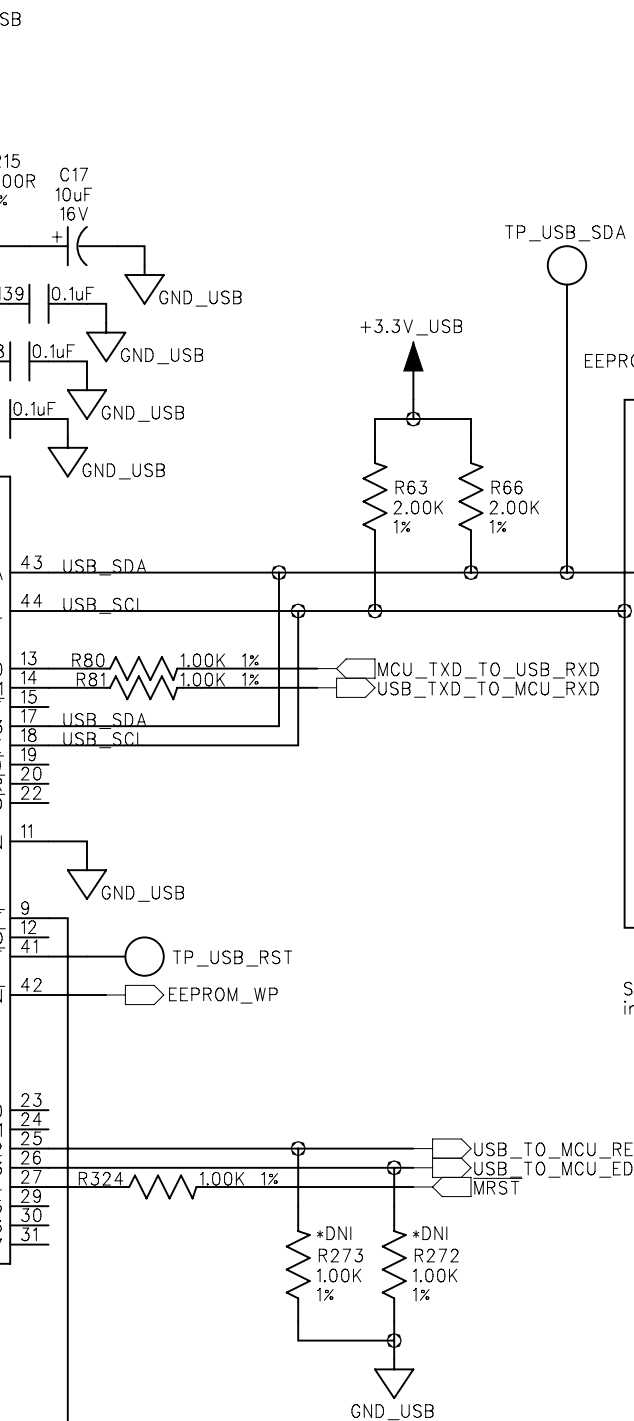
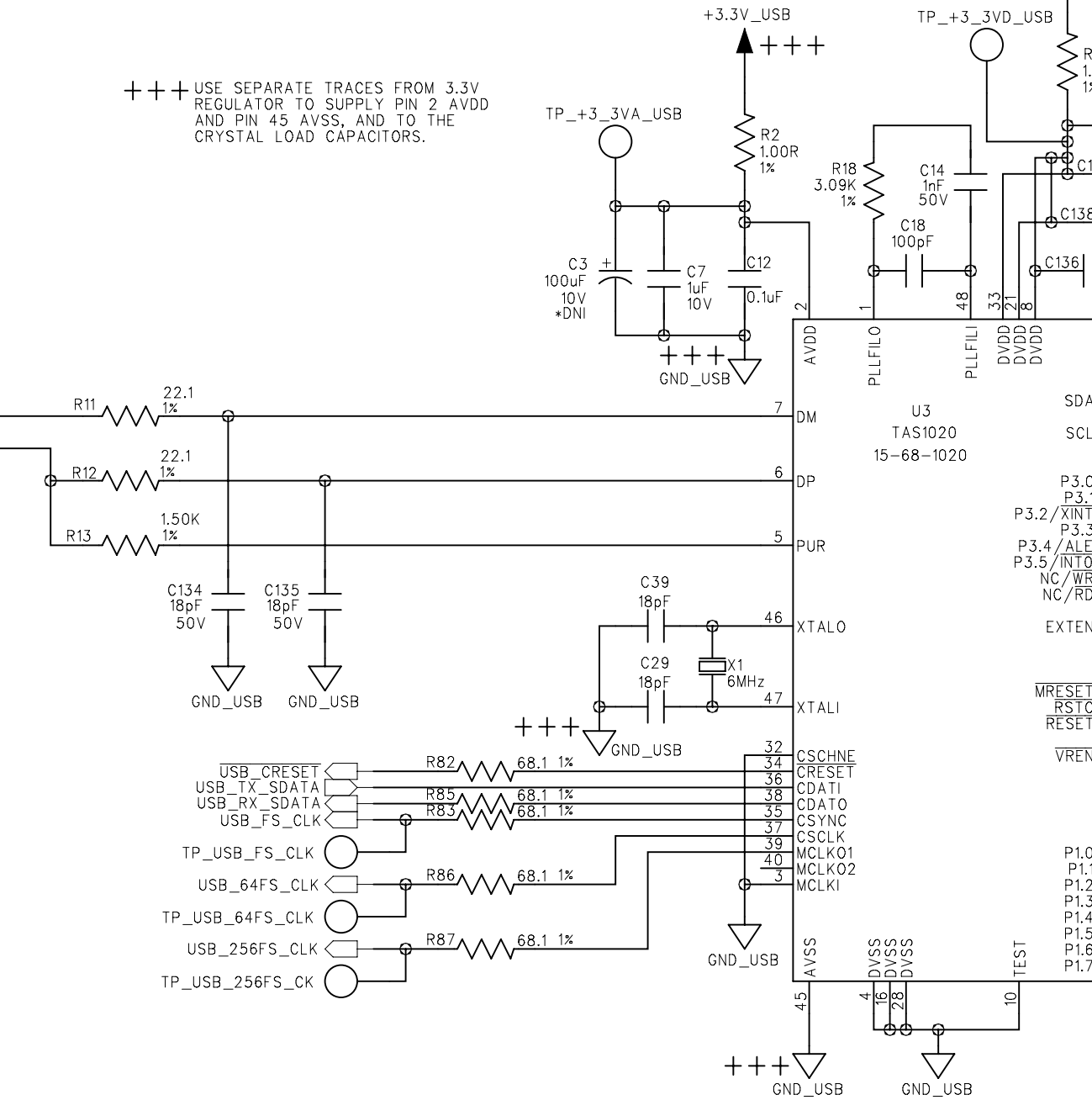
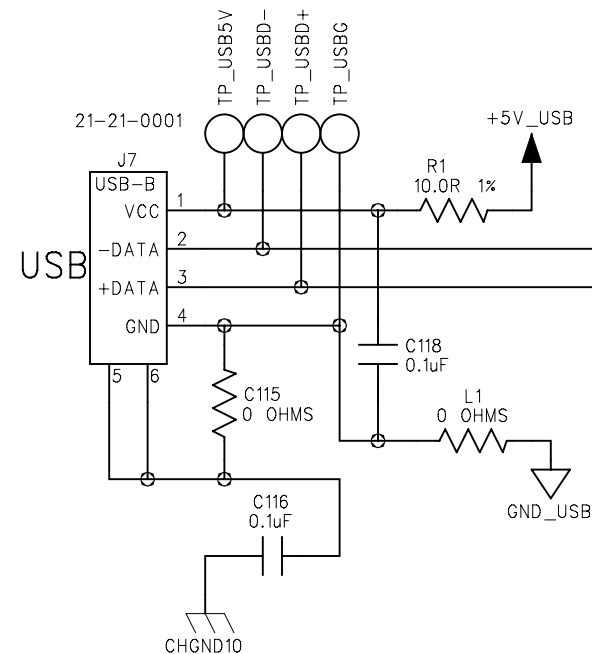
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*DNI = DO NOT INSTALL

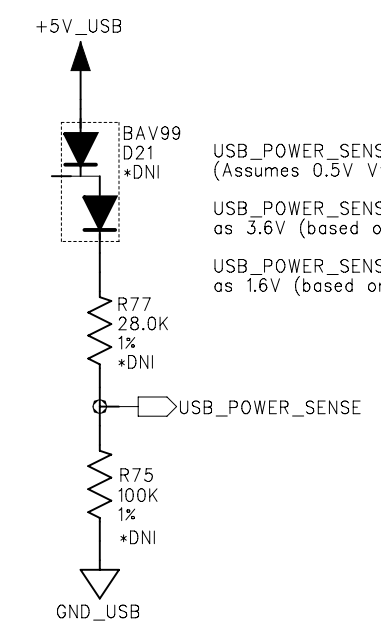
ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
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-	-	-



+++ USE SEPARATE TRACES FROM 3.3V REGULATOR TO SUPPLY PIN 2 AVDD AND PIN 45 AVSS, AND TO THE CRYSTAL LOAD CAPACITORS.



Short SDA to GND to invoke TAS1020A internal firmware boot from USB.



USB_POWER_SENSE is typically 3.125V when USB VBUS is 5.0V (Assumes 0.5V Vf per diode.)
 USB_POWER_SENSE is guaranteed to be logic 1 for VBUS as low as 3.6V (based on max Vf=0.7V @ If<50uA, VIH=2.0V, 1x res)
 USB_POWER_SENSE is guaranteed to be logic 0 for VBUS as high as 1.6V (based on min Vf=0.3V @ If>5uA, VIL=0.8V, 1x res)

USB_POWER_SENSE is the same signal as the USB MCU active low reset.
 USB_POWER_SENSE guaranteed to be logic 0 any time +3.3V_USB is less than 3.0V.

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COMPANY:		LINE 6
TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB USB	
PROGRAM:	PADS LOGIC 2007.45.1	REV: A
DRAWN:	B. Schmanski/HHX	DATED: 22 JUNE 2011
CHECKED:	Review Board	DATED: 23 NOV 2009
PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/	
FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch	
SHEET SIZE:	C	PART NUMBER: 35-00-0363
		SHEET: 6 OF 8

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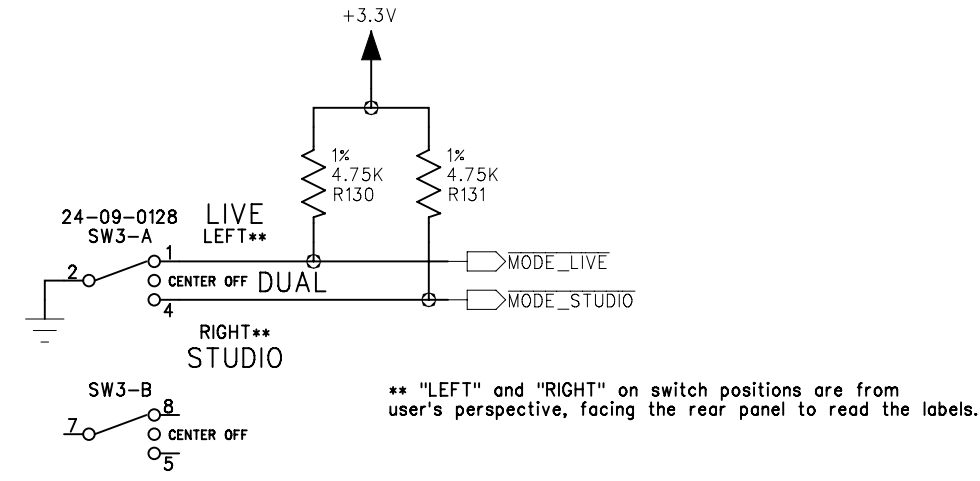
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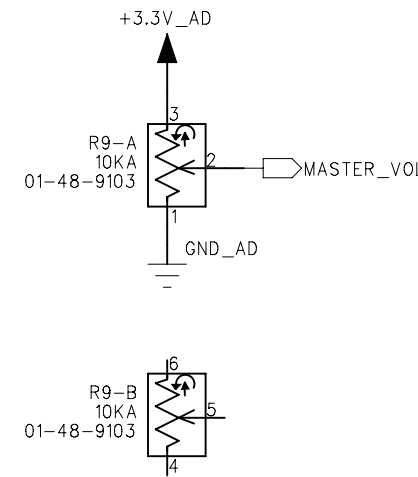
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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
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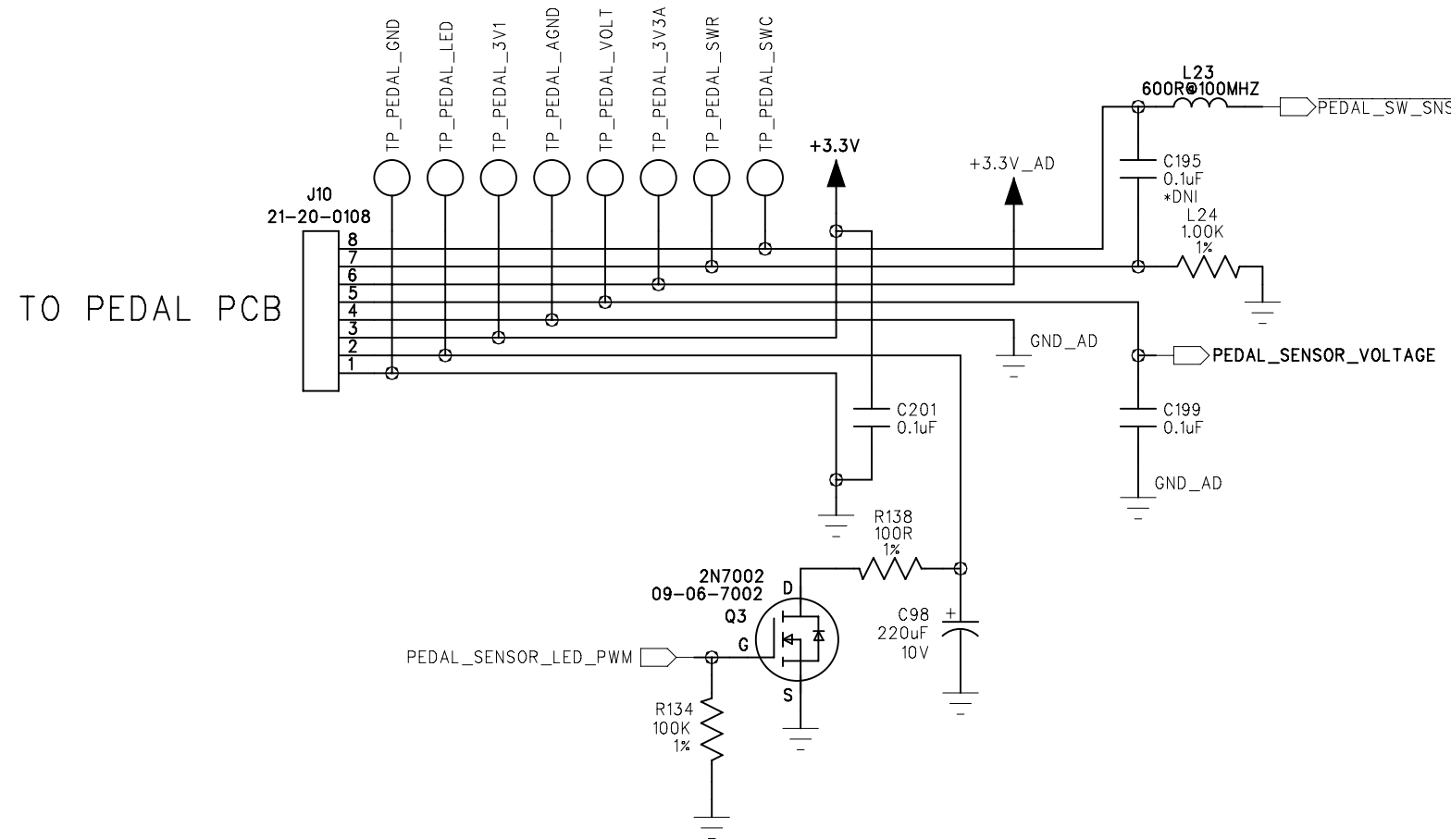
LIVE/DUAL/STUDIO MODE SWITCH



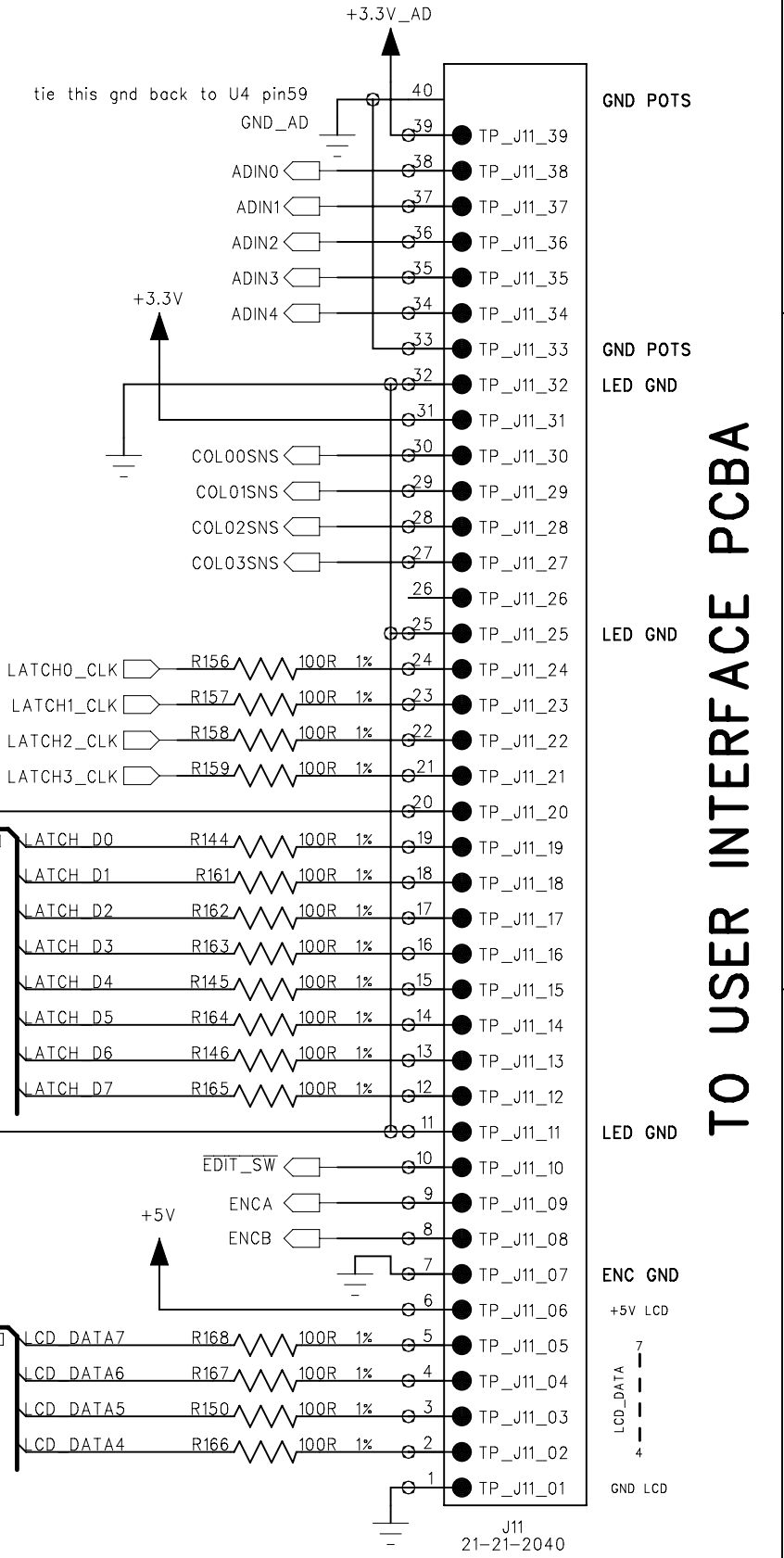
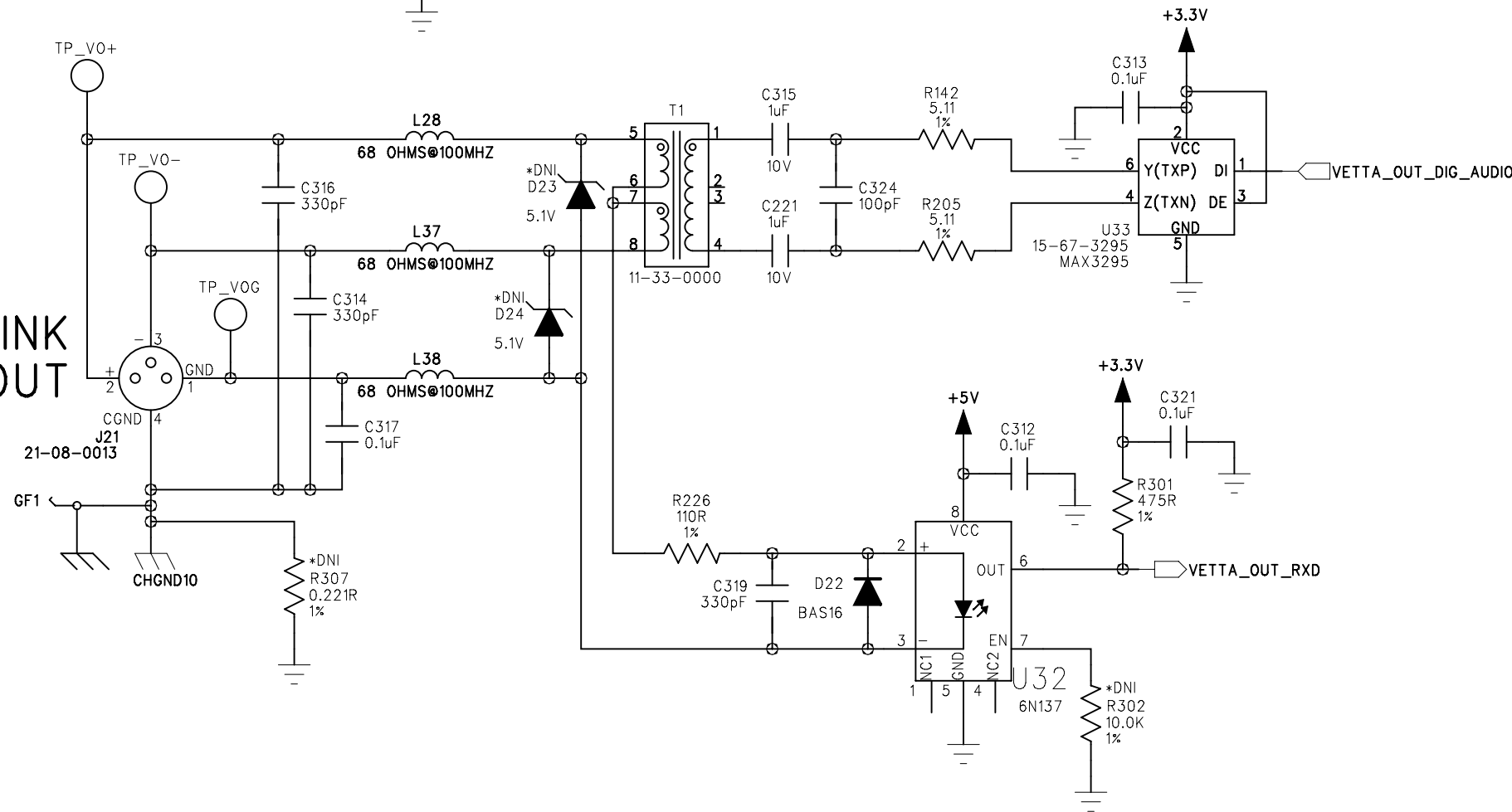
MASTER VOLUME CONTROL



PEDAL INTERFACE



L6 LINK OUT



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COMPANY:	LINE 6	
TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB INTERFACE	
PROGRAM:	PADS LOGIC 2007.45.1	REV: A
DRAWN:	B. Schmanski/HHX	DATED: 22 JUNE 2011
CHECKED:	Review Board	DATED: 23 NOV 2009
PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/	
FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch	
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		SHEET: 7 OF 8

TO USER INTERFACE PCBA

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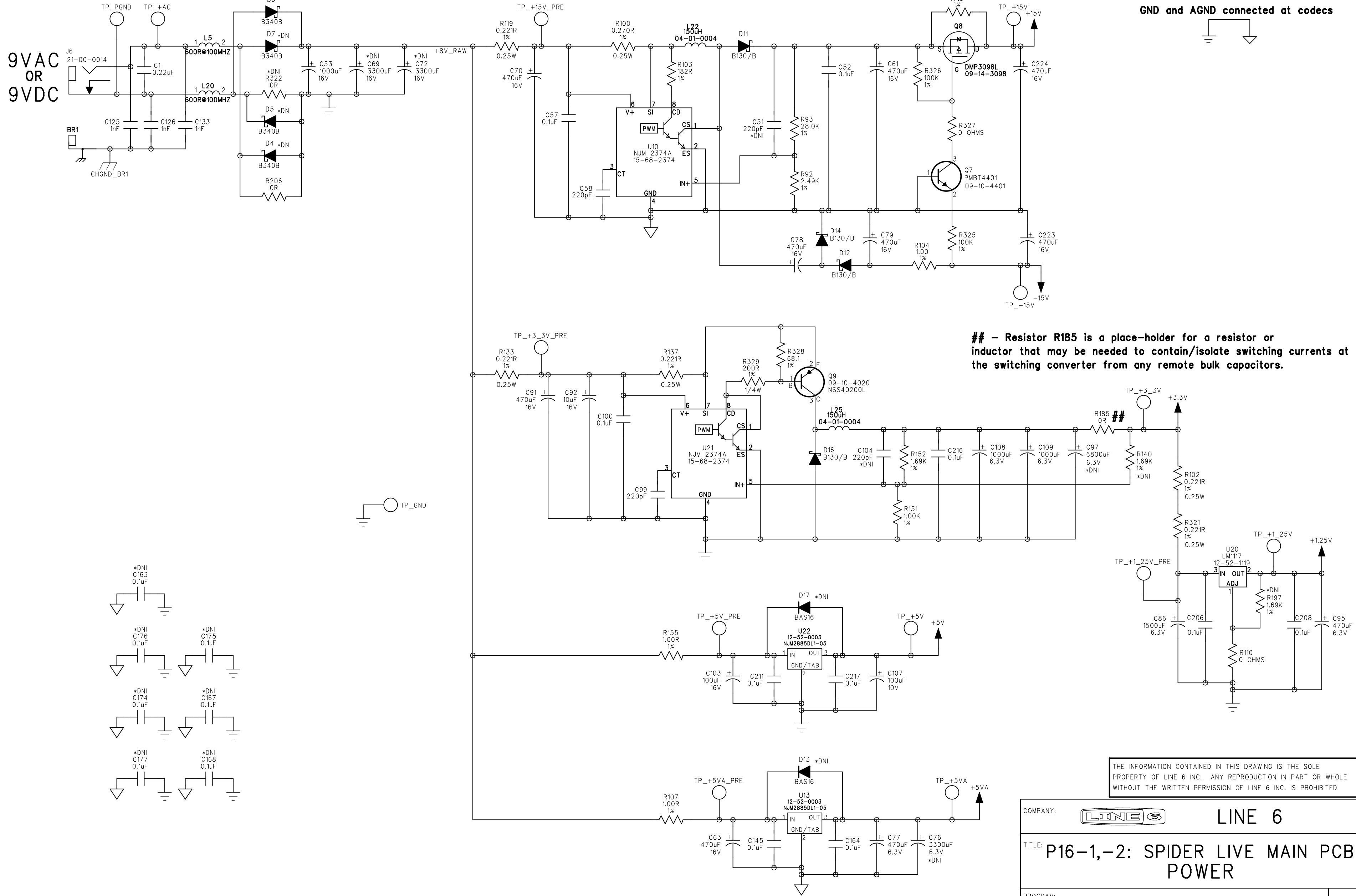
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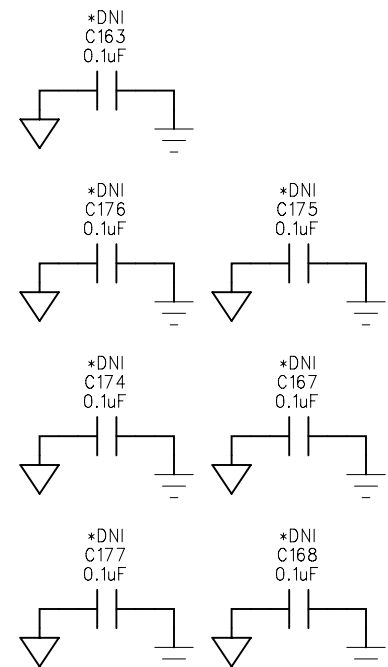
*DNI = DO NOT INSTALL

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
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GND and AGND connected at codecs



- Resistor R185 is a place-holder for a resistor or inductor that may be needed to contain/isolate switching currents at the switching converter from any remote bulk capacitors.



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COMPANY:	LINE 6		REV: A
TITLE:	P16-1,-2: SPIDER LIVE MAIN PCB POWER		
PROGRAM:	PADS LOGIC 2007.45.1		SHEET: 8 OF 8
DRAWN:	B. Schmanski/HHX		
CHECKED:	Review Board		
DATED:	22 JUNE 2011		
DATED:	23 NOV 2009		
PATH:	/P16/PCBs/P16-2/Main - 0363/Rev A/		
FILENAME:	P16-1,-2 SpiderLive MAIN Rev A-03C.sch		
SHEET SIZE:	C	PART NUMBER: 35-00-0363	

D

C

B

A

D

C

B

A

6

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3

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1

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
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35-00-0366-1

35-00-0366-2

D

D

C

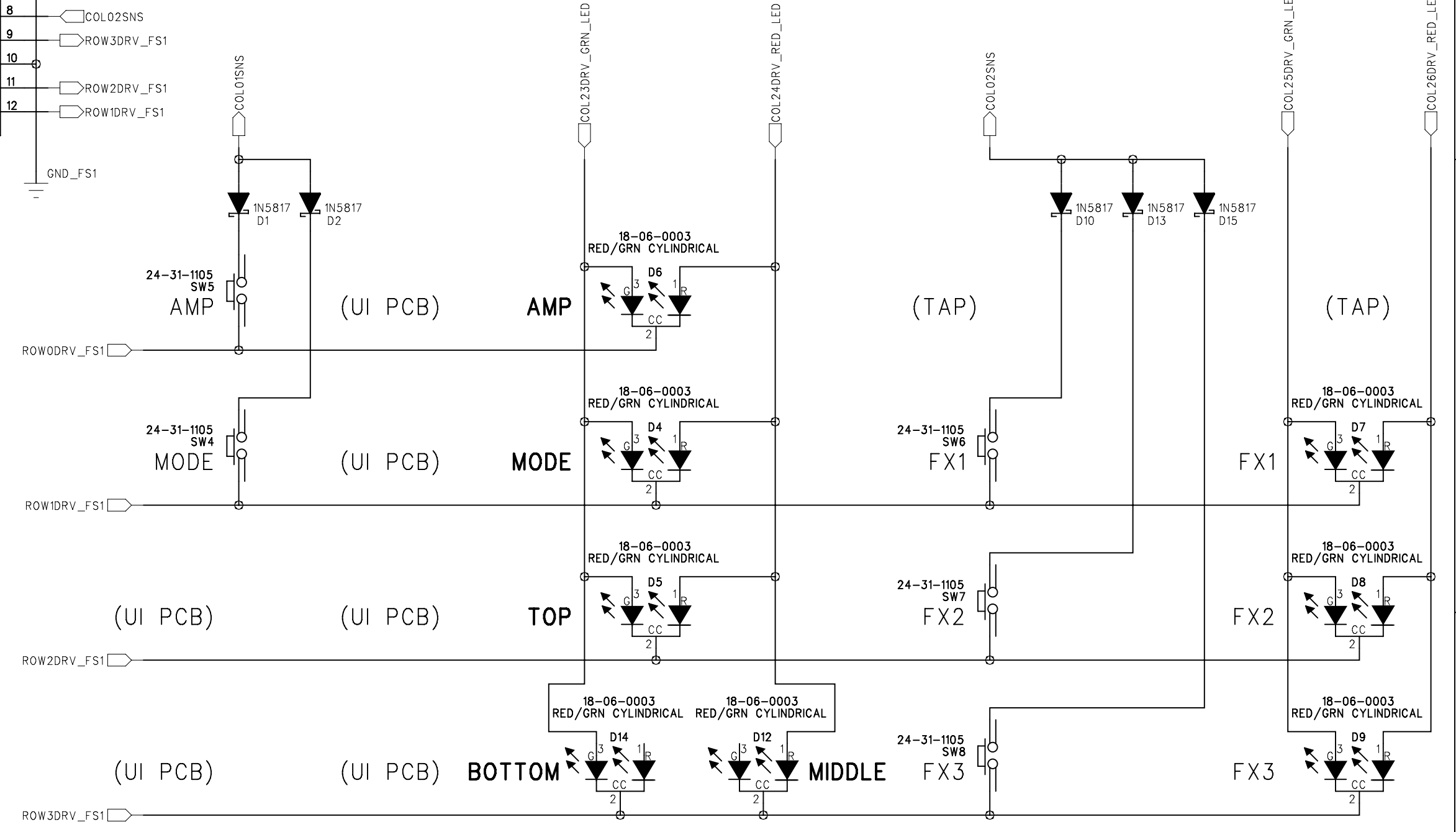
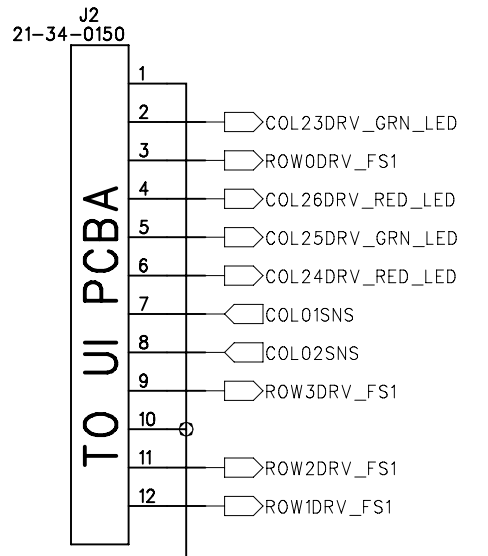
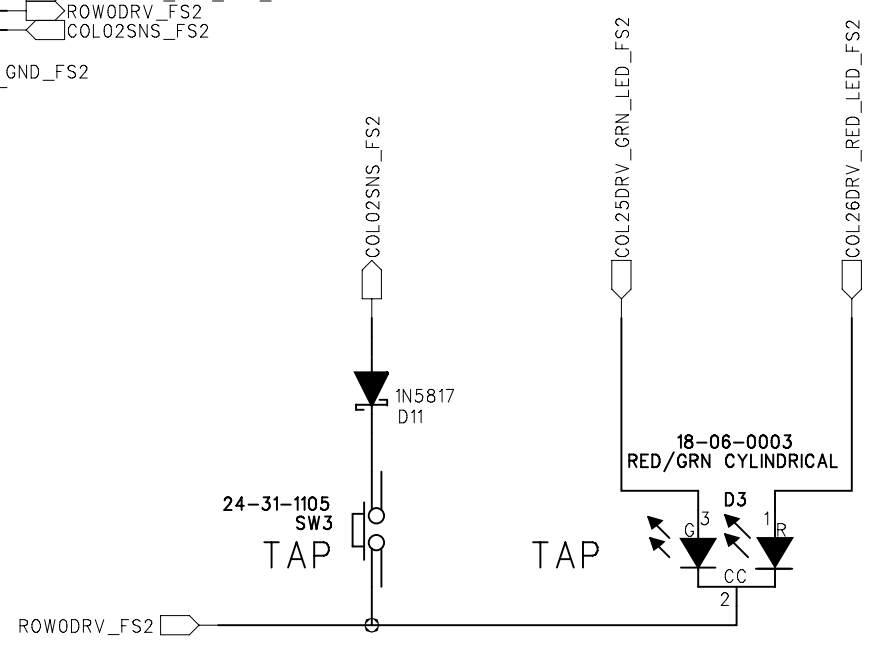
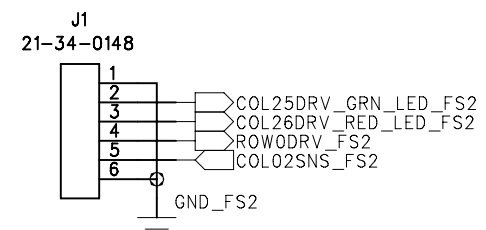
C

B

B

A

A



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COMPANY:	LINE 6
TITLE:	P16-2: SPIDER LIVE MID FOOTSWITCH
PROGRAM:	PADS LOGIC 2007.45.1
DRAWN:	B. Schmanski/HHX
DATED:	22 JUNE 2011
CHECKED:	Review Board
DATED:	23 NOV 2009
PATH:	/P16/PCBs/P16-3/Footswitch - 0367/Rev B/
FILENAME:	P16-3 SpiderLive Footswitch Rev B.sch
SHEET SIZE:	C
PART NUMBER:	35-00-0366-1/-2
SHEET:	1 OF 1
REV:	B

6

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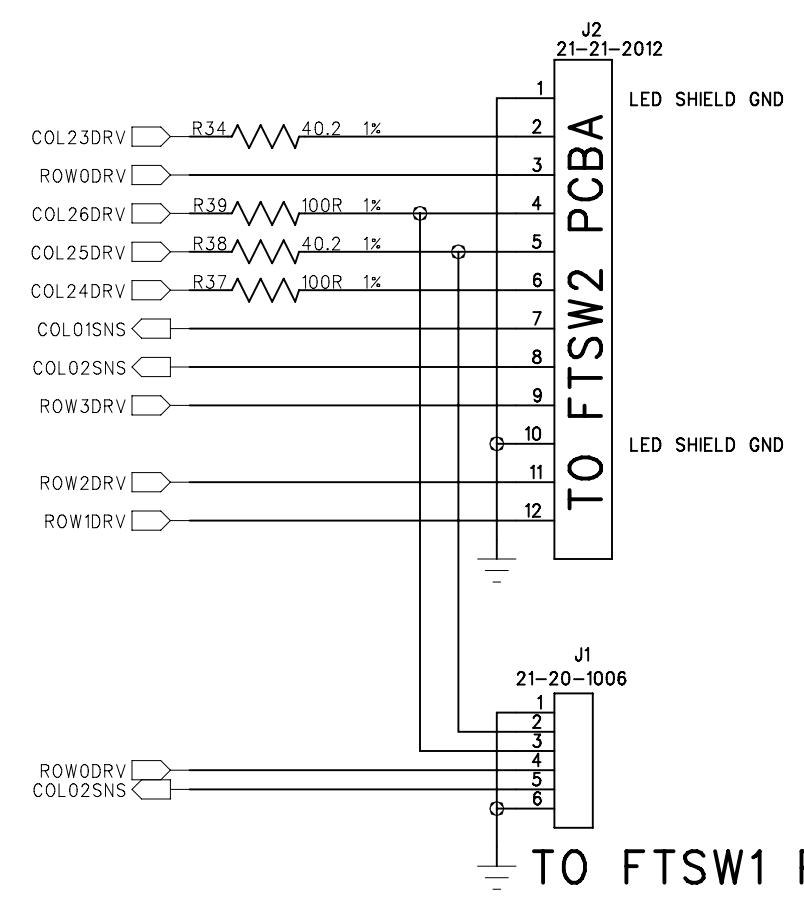
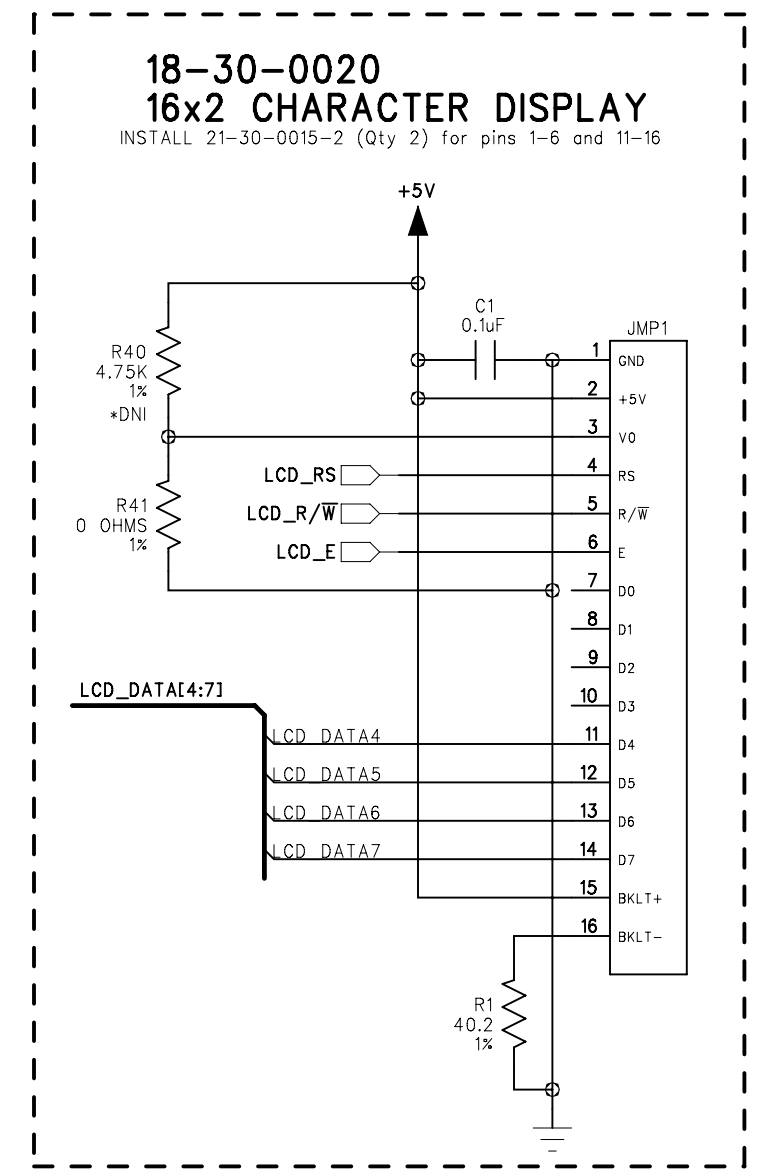
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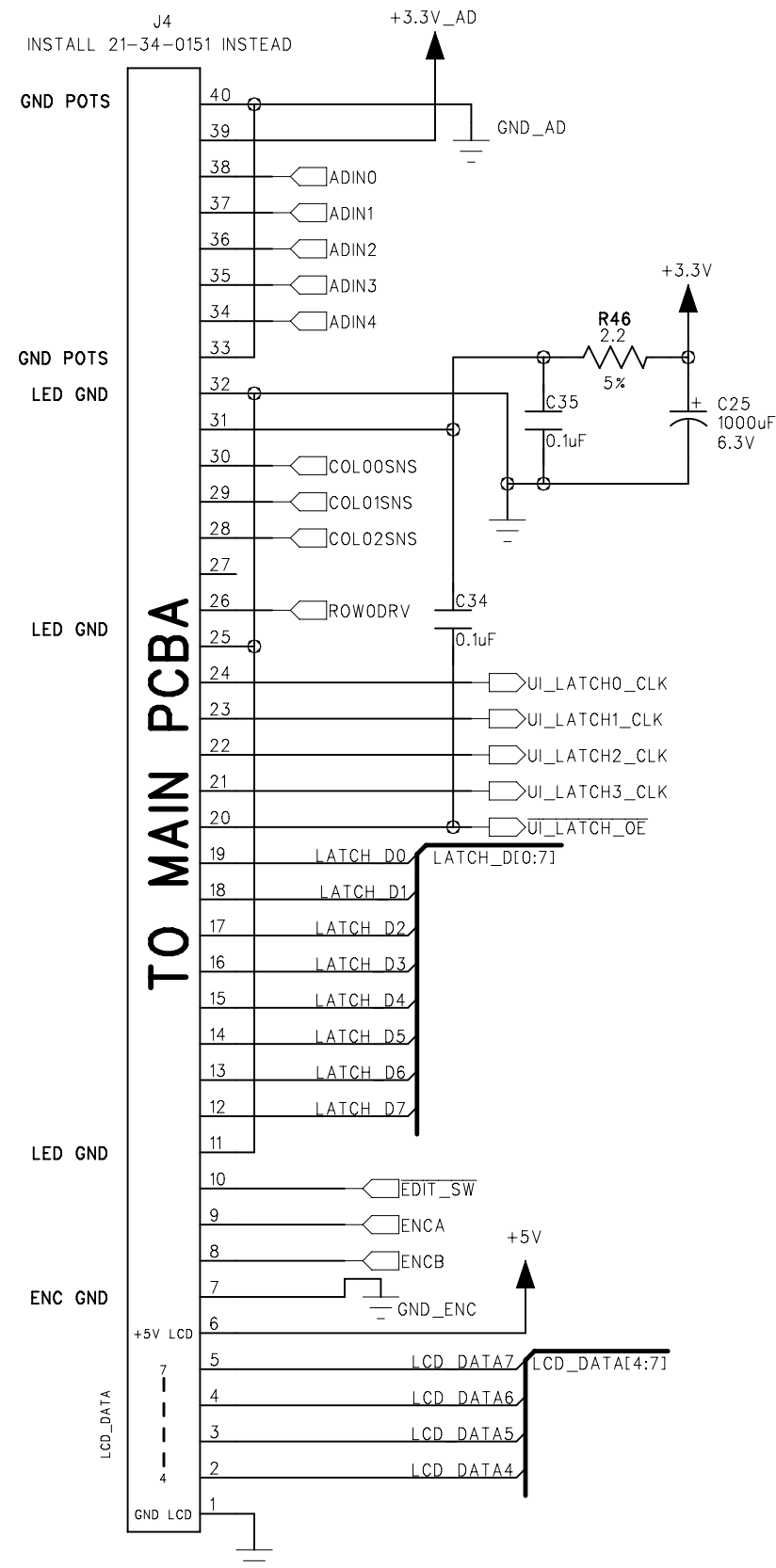
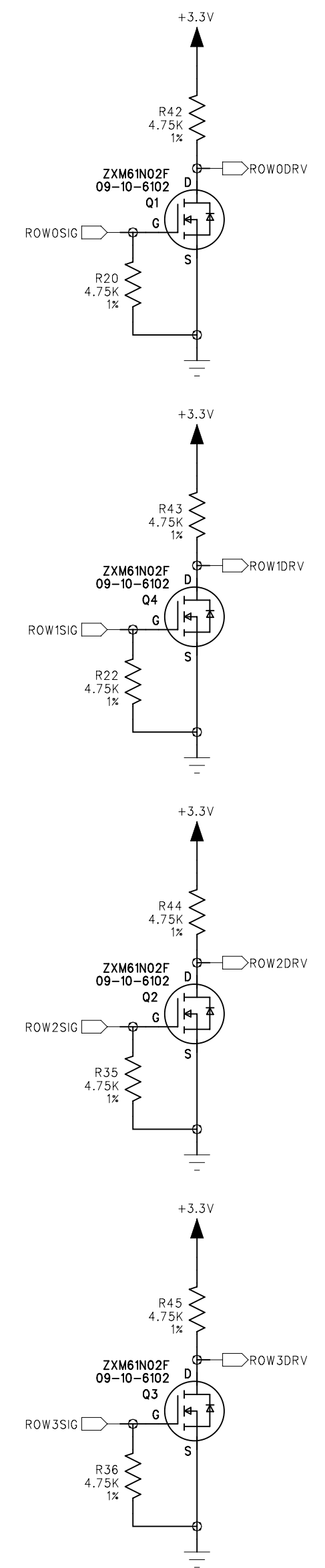
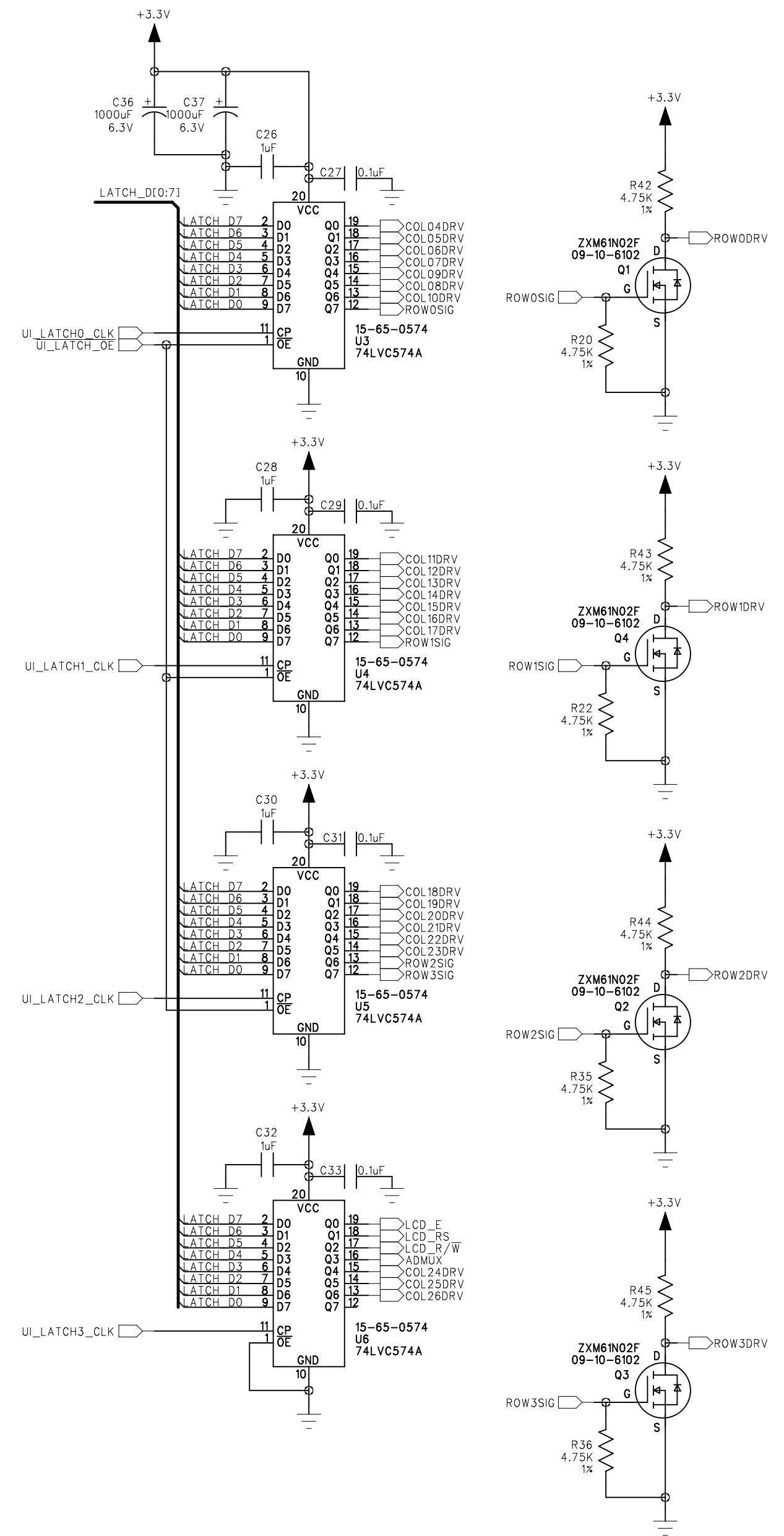
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ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
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COMPANY:	LINE 6	
TITLE:	P16-2: SPIDER LIVE MID UI PCB HEADERS/DRIVERS	
PROGRAM:	PADS LOGIC 2007.45.1	REV: A
DRAWN:	B. Schmanski/HHX	DATED: 22 JUNE 2011
CHECKED:	Review Board	DATED: 23 NOV 2009
PATH:	/P16/PCBs/P16-2/UI - 0362/Rev A/	
FILENAME:	P16-2 SpiderLive Mid UI REV A.sch	
SHEET SIZE:	C	PART NUMBER: 35-00-0362
		SHEET: 1 OF 3



18-30-0020
16x2 CHARACTER DISPLAY
INSTALL 21-30-0015-2 (Qty 2) for pins 1-6 and 11-16

LCD_DATA[4:7]

TO FTSW1 PCBA

TO MAIN PCBA

D
C
B
A

D
C
B
A

6

5

4

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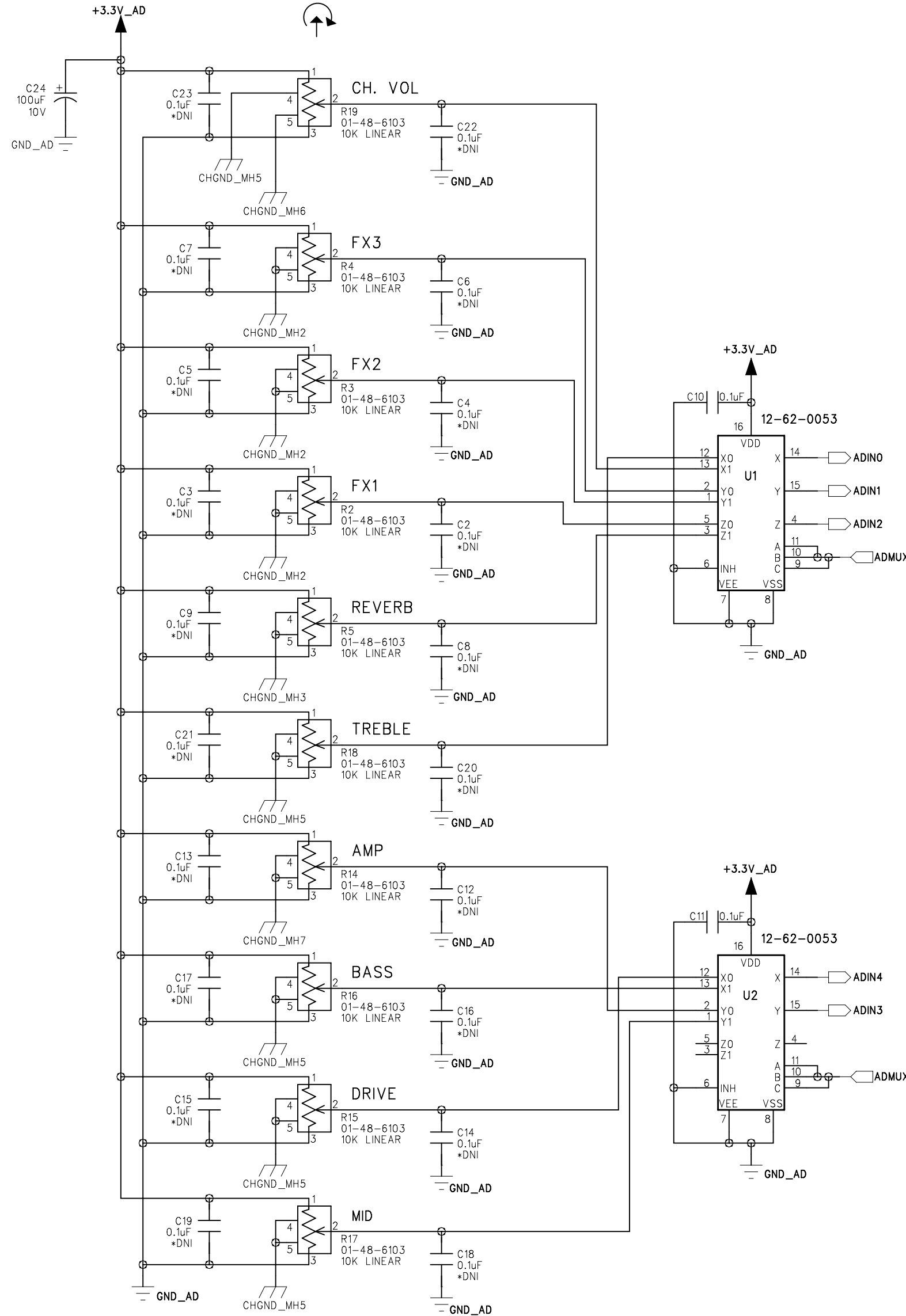
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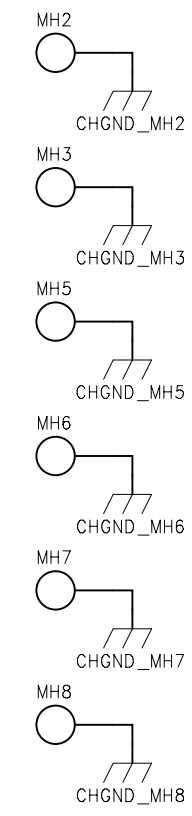
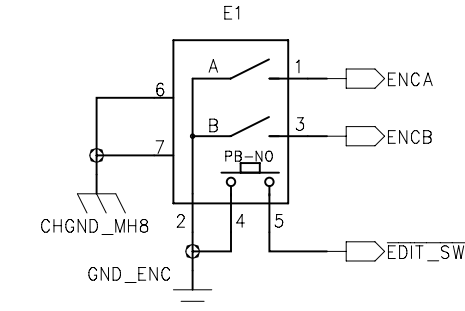
ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
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-	-	-
-	-	-

POTS

All Pots - Linear Taper



EDIT ENCODER

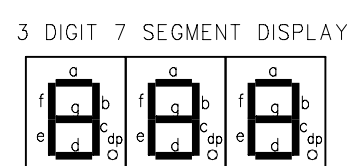
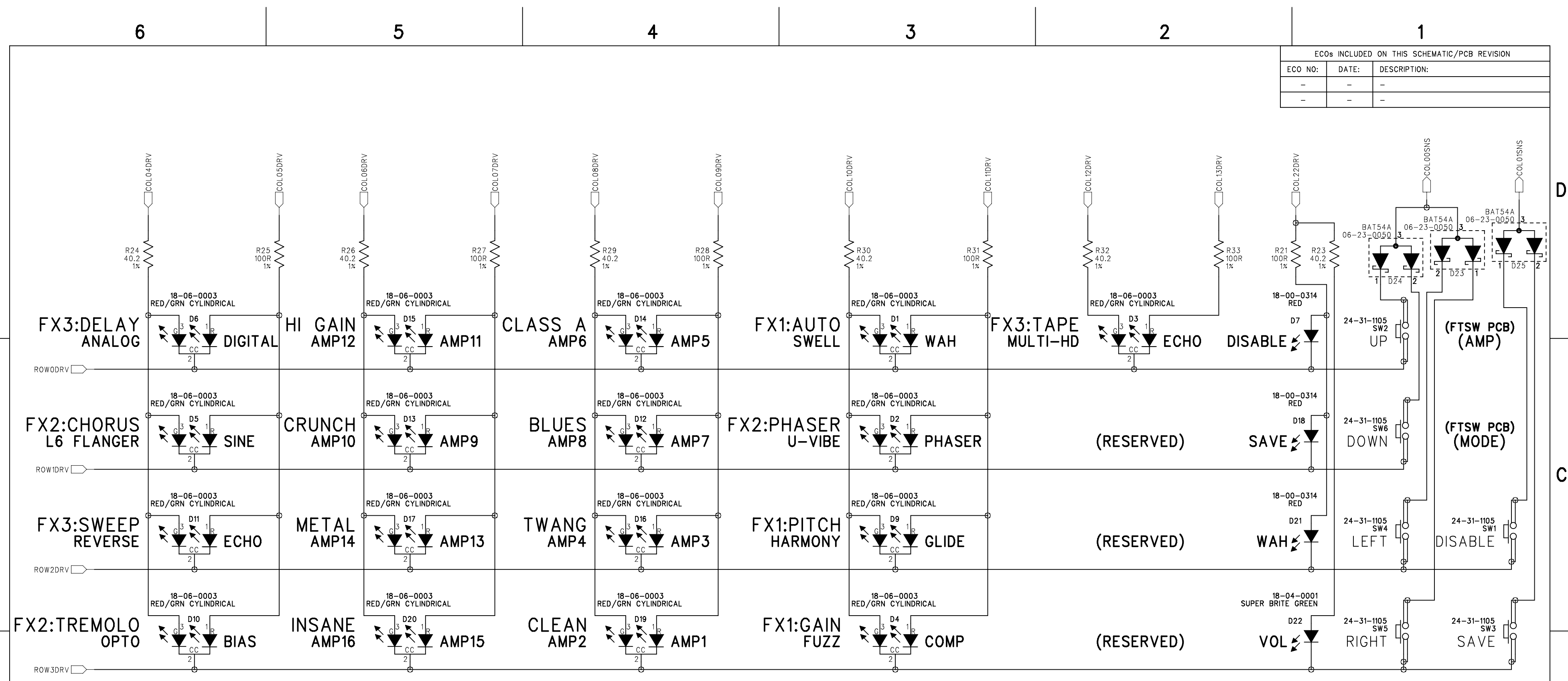


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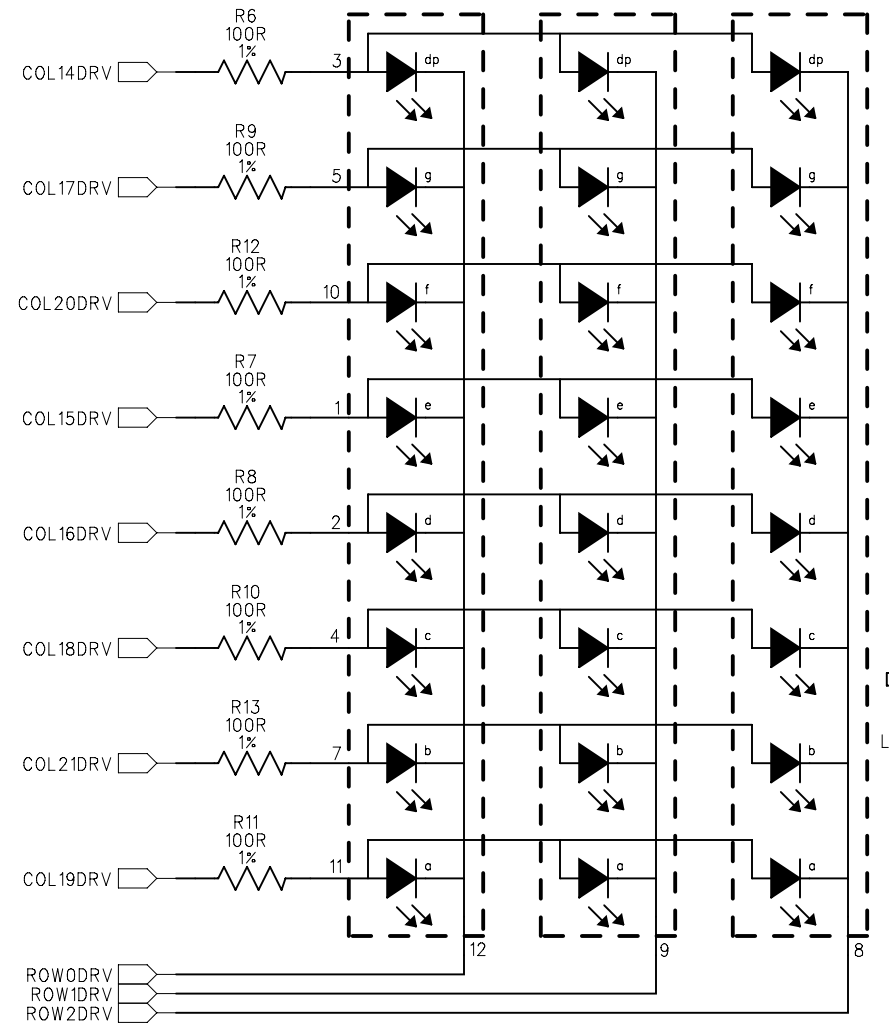
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TITLE:	P16-2: SPIDER LIVE MID UI PCB POTS/ENCODER
PROGRAM:	PADS LOGIC 2007.45.1
REV:	A

DRAWN:	B. Schmanski/HHX	DATED:	22 JUNE 2011	PATH:	/P16/PCBs/P16-2/UI - 0362/Rev A/
CHECKED:	Review Board	DATED:	23 NOV 2009	FILENAME:	P16-2 SpiderLive Mid UI REV A.sch
SHEET SIZE: C		PART NUMBER: 35-00-0362		SHEET: 2 OF 3	

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
-	-	-
-	-	-



ROW	SW MATRIX:				LED MATRIX:																						
	COL00	COL01	COL02	COL03	COL04	COL05	COL06	COL07	COL08	COL09	COL10	COL11	COL12	COL13	COL14	COL15	COL16	COL17	COL18	COL19	COL20	COL21	COL22	COL23	COL24	COL25	COL26
ROW0	4W-UP	AMP	TAP	----	FX3:AD	FX3:DD	AMP12	AMP11	AMP6	AMP5	FX1:SWL	FX1:WAH	FX3:T	FX3:E	DP2	E2	D2	G2	C2	A2	F2	B2	DISABLE	AMP_G	AMP_R	TAP_G	TAP_R
ROW1	4W-DN	MODE	FX1	RSVD	FX2:L6F	FX2:SIN	AMP10	AMP9	AMP8	AMP7	FX2:UVB	FX2:PZR	RSVD	RSVD	DP1	E1	D1	G1	C1	A1	F1	B1	SAVE	MODE_G	MODE_R	FX1_G	FX1_R
ROW2	4W-L	DISABLE	FX2	RSVD	FX3:RVS	FX3:EKO	AMP14	AMP13	AMP4	AMP3	FX1:HRM	FX1:GLD	RSVD	RSVD	DP0	E0	D0	G0	C0	A0	F0	B0	WAH	TOP_G	TOP_R	FX2_G	FX2_R
ROW3	4W-R	SAVE	FX3	RSVD	FX2:OPT	FX2:BLA	AMP16	AMP15	AMP2	AMP1	FX1:FZ	FX1:CMP	RSVD	RSVD	----	----	----	----	----	----	----	----	VOL	BOT_G	MID_R	FX3_G	FX3_R



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COMPANY: **LINE 6**

TITLE: **P16-2: SPIDER LIVE MID UI PCB SWITCHES/LEDS**

PROGRAM: PADS LOGIC 2007.45.1

REV: **A**

PATH: /P16/PCBs/P16-2/UI - 0362/Rev A/
 FILENAME: P16-2 SpiderLive Mid UI REV A.sch

DRAWN: B. Schmanski/HHX
 CHECKED: Review Board

DATED: 22 JUNE 2011
 DATED: 23 NOV 2009

SHEET SIZE: C
 PART NUMBER: 35-00-0362
 SHEET: 3 OF 3

6

5

4

3

2

1

ECOs INCLUDED ON THIS SCHEMATIC/PCB REVISION		
ECO NO:	DATE:	DESCRIPTION:
-	-	-
-	-	-

D

D

C

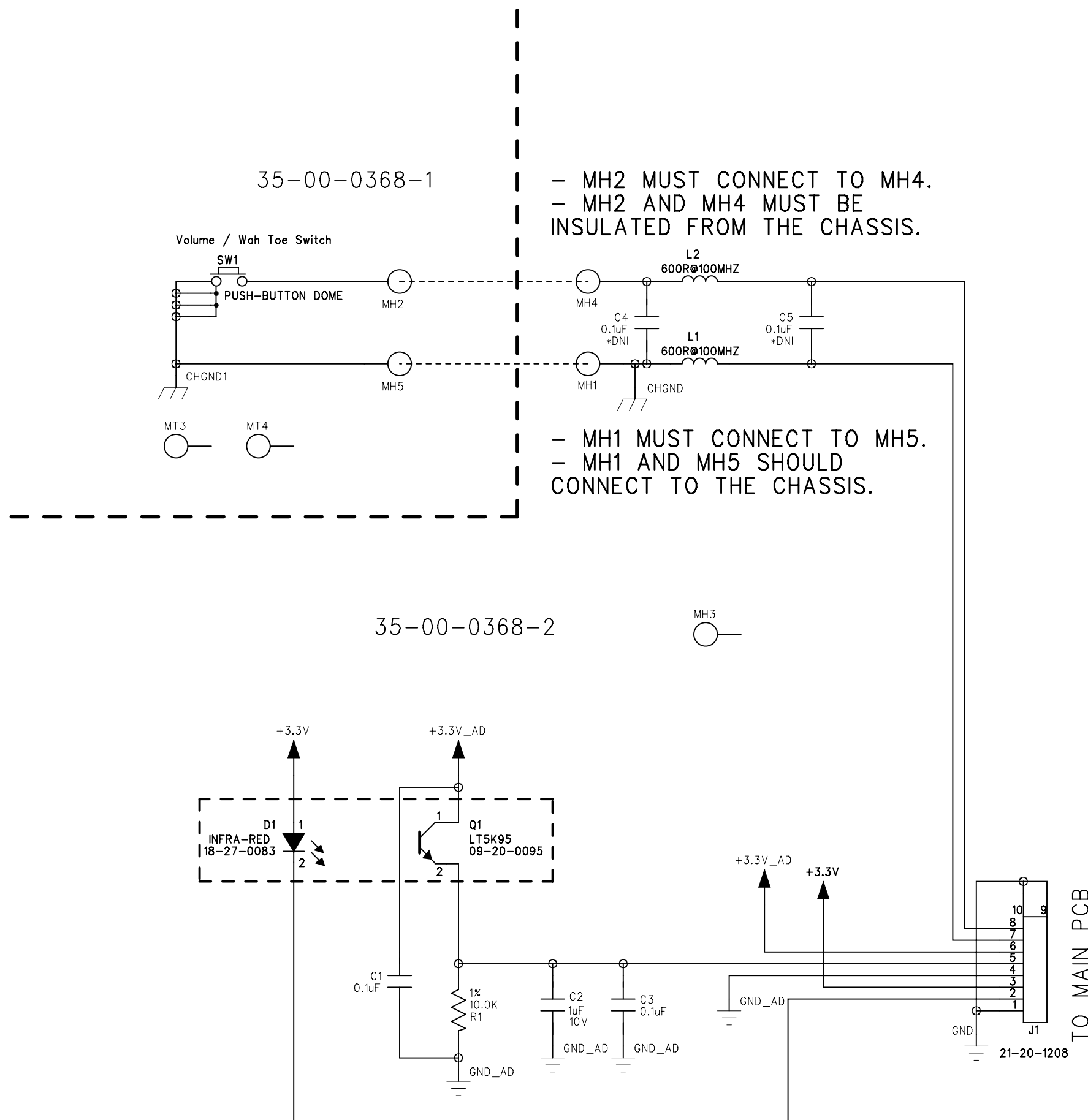
C

B

B

A

A



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COMPANY:	LINE 6
TITLE:	P16-2: SPIDER LIVE PEDAL
PROGRAM:	PADS LOGIC 2007.45.1
REV:	B

DRAWN:	B. Schmanski	DATED:	22 June 2011
CHECKED:	Review Board	DATED:	23 Sept 2009

PATH:	/P16/PCBs/P16-2/Pedal - 0368/Rev B/
FILENAME:	P16-2 SpiderLive Pedal Rev B.sch
SHEET SIZE:	C
PART NUMBER:	35-00-0368-1/2
SHEET:	1 OF 1



SPIDER LIVE P16-2 Final Unit Test Instructions Rev X0

DATE: 04.04.2010

SUMMARY: The SPIDER LIVE P16-2 final unit test will perform UI and audio tests using a test computer, Delta1010 Audio interface and a Final Test Fixture.

EQUIPMENT REQUIRED:

- 1 – SPIDER LIVE P16-2 COMPLETE UNIT
- 1 – POWER SUPPLY (9VDC – 2000mA min)
- 1 – Delta1010 & dedicated computer
- 1 – Final Unit test fixture with attached cable harness

SET UP:

1. Put SPIDER LIVE P16-2 into the Final Test Fixture.

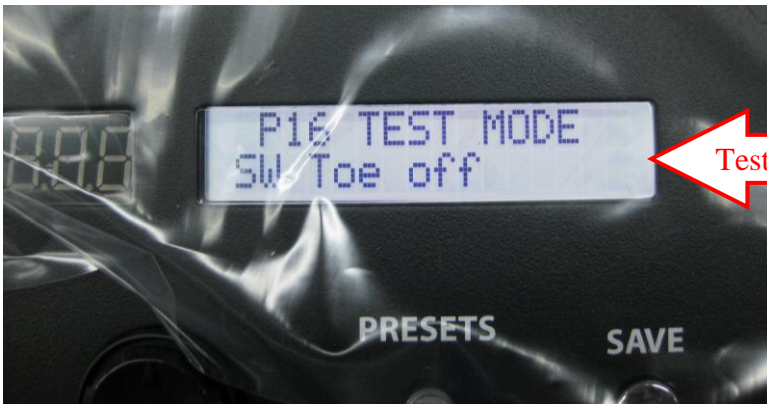
UI TEST:

1. Press and hold the TAP button, while you connect 9VDC POWER to SPIDER LIVE P16-2.



2. The display will indicate “Test Mode”

LINE 6

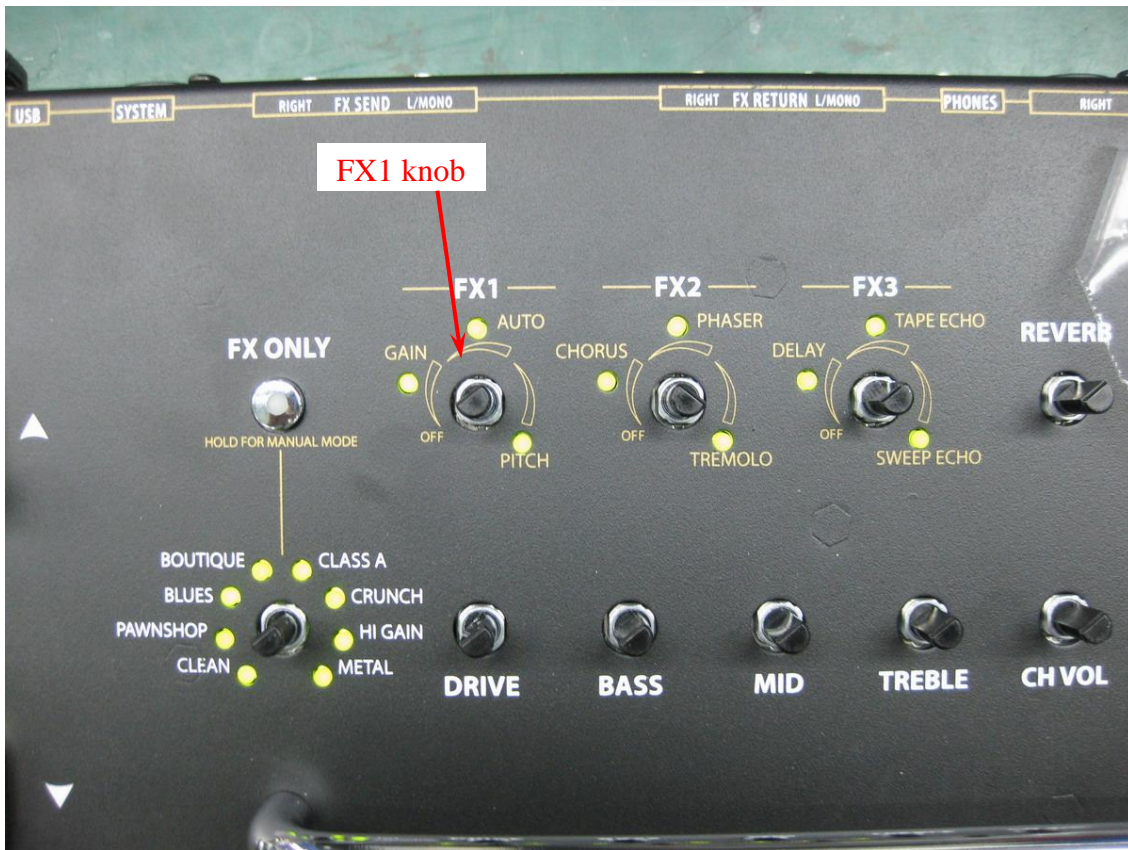


3. All knob LEDs will light



4. Twist FX1 knob to adjust brightness of green LEDs

LINE 6



5. Twist FX2 knob to adjust brightness of red LEDs.



6. Twist the other knobs and the display will indicate the numeric value.

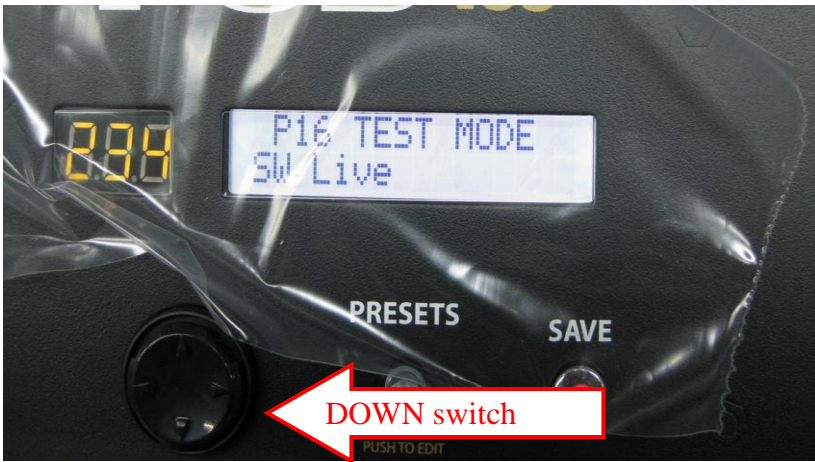


7. Press buttons to make the around LEDs light or black out.

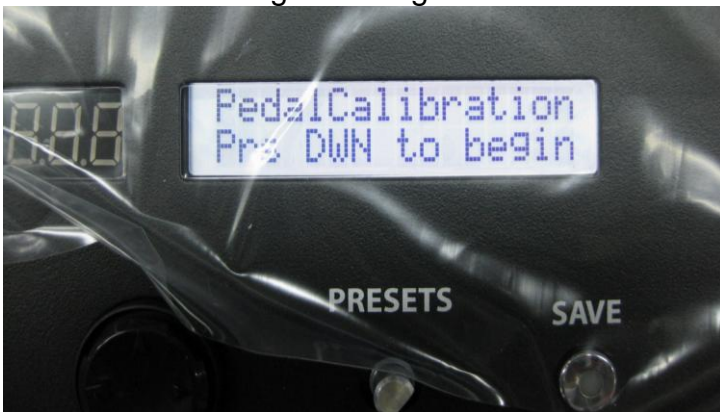
8. Switch "Live/Dual/Studio" button and the display will indicate the relative information, just show "Live" or "Dual" or "Studio".



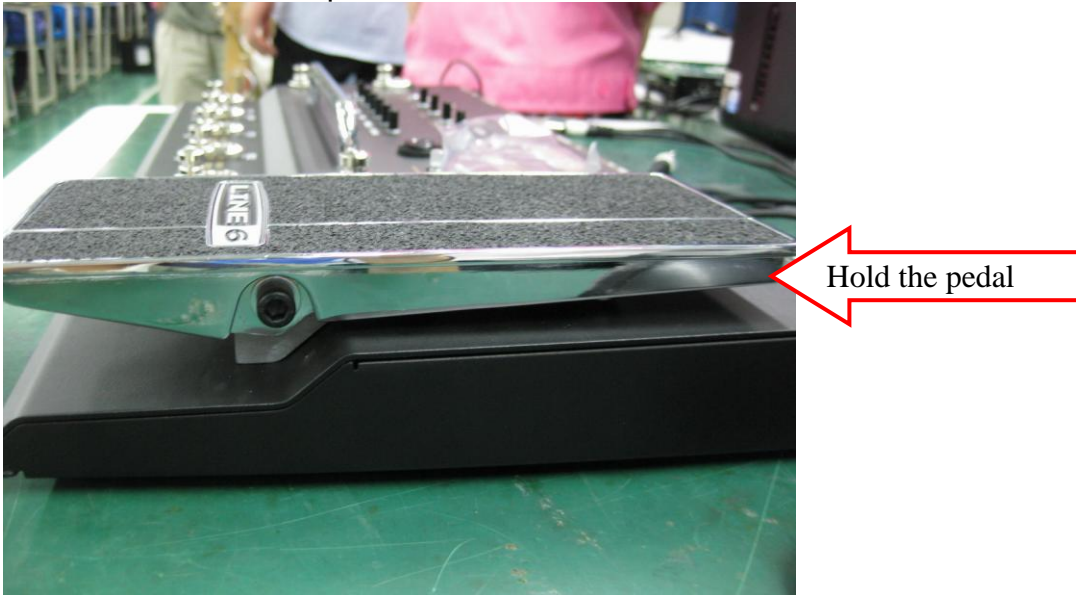
9. Holding DOWN on 4way switch to do the Pedal Calibration.



10. Press DOWN again to begin.



11. Press and hold the pedal until the toe switch clicks.

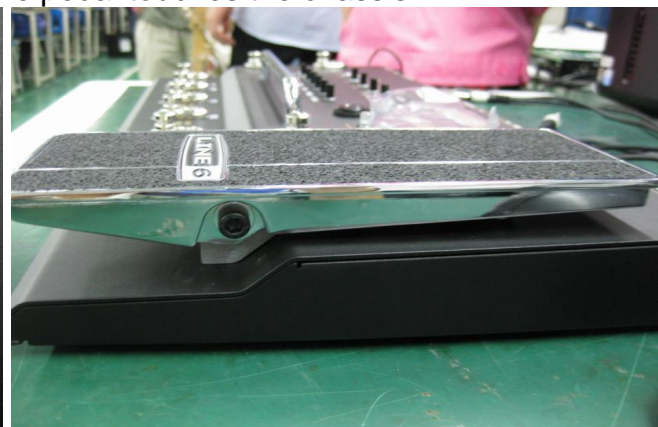


12. Rock the pedal back so that the heel touches the chassis, press down.

LINE 6



13. Rock the pedal forward so that the toe of the pedal touches the chassis.



14. Press DOWN button.

15. Moving the pedal from heel to toe to heel and check the value on sevensegment LEDs and LCD changes accordingly.

16. Press DOWN to save the calibration data.

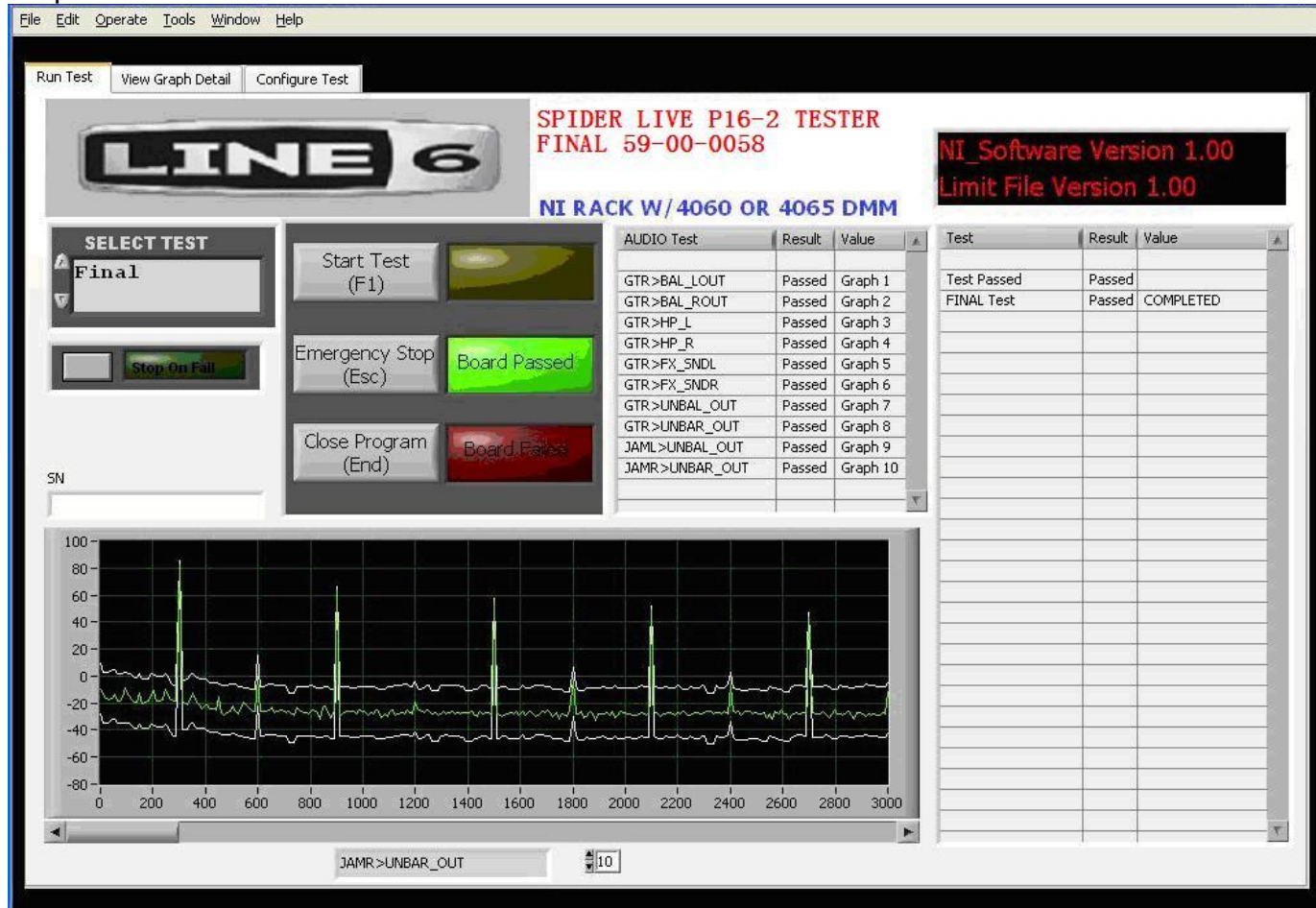


17. Disconnect 9VDC POWER from SPIDER LIVE.



AUDIO TEST:

1. Start the NI test program 59-00-0058 and change the default PCBA test to FINAL using the up/down buttons in the program. The unit must remain powered during the entire test process.



2. Place the SPIDER LIVE into the Final Test Fixture, closing the clamp slowly (move handle towards you).
3. Press and hold the TAP button, while you connect 9VDC POWER to SPIDER LIVE to enter test mode.
4. Press Start Test (F1) and the program prompts you to verify connections, and then the program will run test items automatically.
5. If all tests pass, the display will indicated 'Board Passed'. If any tests fail, you must redo the Audio test again.
6. Disconnect 9VDC POWER from SPIDER LIVE.



REVISION HISTORY

Revision: X0 **Date: 04.04.2010**

- Release for Alpha Build

99-060-1515 - P16-2 POD HD300 US								
Level	Item	Part Number	Qty	UOM	Refdes	Find	Rev	Description
1	1	11-30-8621	1				A	XFMR WALL 100-240VAC 50-60HZ 9VDC 3000MA DC-3G
1	2	21-34-2007	1	EA			A	CBL USB W/FERRITE 2 METER HIGH SPEED BLACK
1	3	40-00-0241	1				B	MANUAL USER SPIDER LIVE MID P16-2
1	4	40-00-0293	1	EA			C	INSERT MANUAL ADDENDUM POD HD300 HD400
1	5	40-00-1000	1	EA			H	CARD WARRANTY LINE 6
1	6	40-01-0016	1				D	CARD LICENSE-AGREEMNT END-USER ALL-PRODUCTS
1	7	40-03-2000	1	EA			F	CARD REGISTRATION US
1	8	40-03-2000-1	1	EA			A	CARD REGISTRATION EUROPE
1	9	40-10-0317	1				A	CARTON GIFT SPIDER LIVE MID P16-2
1	10	40-10-0349	0.33				A	CARTON SHIPPING 3-PACK SPIDER LIVE MID P16-2
1	11	40-15-0061	1				A	ENDCAP FOAM SHIPPING LEFT P16-2
1	12	40-15-0062	1				A	ENDCAP FOAM SHIPPING RIGHT P16-2
1	13	40-20-0022	1				A	BAG PLASTIC 2 MIL 36"x14"
1	14	40-20-0070	1				A	BAG PLASTIC SHIPPING 9" x 12" 2-MIL
1	15	40-25-0020	1	EA			A	LABEL INSPECTION QUALITY
1	16	40-25-0024	1	EA			B	STICKER ART SEAL EULA
1	17	40-25-0082	1				A	LABEL ROUND 1.75" TRANSPARENT
1	18	40-25-0233	0.33				C	LABEL MASTER CARTON MATTE WHITE
1	19	40-25-0319	0.33	EA			A	SHIPPING CARTON COMPLIANCE STICKER
1	20	40-30-0013	1				A	LABEL SERIAL NUMBER/ PART NUMBER STANDARD MATTE WHITE
1	21	59-00-0058	1				C	ASSY UNIT-COMPLETE SPIDER LIVE MID P16-2
2	1	21-30-0062	1				X1	CABLE RIBBON 8 COND PITCH 2MM LENGTH 70MM 26 AWG PEDAL PCBA TO MAIN PCBA P16-2
2	2	30-00-0012	1	EA				SCREW 1/4-20 UNC x 3.500" SOCKET-HD STEEL BLACK-OX GRD-8
2	3	30-00-0013	8				A	SCREW 6-32 UNC x 0.250" PAN-HD STEEL BLACK-OXIDE
2	4	30-00-0042	8					SCREW SHEET METAL 4 x 0.375 IN SELF-TAP PPB
2	5	30-00-0043	10	EA			A	SCREW 6-32 X 5/16 LG WITH LOCK WASHER PHIL PAN ZINC-PLATED STEEL
2	6	30-00-0062	2	EA			A	SCREW 10-32 x 3/8-IN w/CAPTIVE WASHER PPZ
2	7	30-00-0192	3	EA			X1	SCREW 6-32 X .75"LG SHCS NICKEL PL
2	8	30-00-0405	3					SCREW 6-32 x .50" SHCS NICKEL PL P11-1
2	9	30-00-0606	1					SCREW 6-32 x 7/16 w/LK WASHER STL PPB
2	10	30-03-0003	2	EA				WASHER .473 x.260x .030 steel
2	11	30-03-0005	2	EA				WASHER .500 x.260x .030 NYLON
2	12	30-03-0025	2	EA				WASHER .62 OD x .25 ID x .06 S TEEL
2	13	30-06-0009	1	EA				NUT 1/4-20 STL W/NYLON LOCK
2	14	30-06-0021	3				X0	NUT THREAD STANDOFF 6-32UNC THREAD 0.335IN HIGH STEEL ZINC PLATING X4 SPIDER LIVE MID & PRO REV-X0
2	15	30-06-0022	3				X0	NUT HEX 6-32 UNC 0.25" X 0.09" STEEL ZINC
2	16	30-06-0623	5	EA				NUT HEX 6-32 w/CAPTIVE STAR-WASHER
2	17	30-15-0004	4				A	SPACER .13 THICK x .63OD NYLON
2	18	30-15-0005	2	EA				SPACER .25 OD x NO.8 ID ALUMINUM
2	19	30-15-0006	1	EA				INSULATOR .17 OD x .46 LG PLASTIC
2	20	30-15-0028	1	EA			B	SPACER .39 OD x .28 ID x 2 .13 LG STEEL X1-1
2	21	30-15-0030	2	EA			B	SPACER .60 O.D. x .27 I.D. x .250 NYLON X1-1
2	22	30-15-4029	3	EA			B	DUAL LOCKING PCBA SUPPORT STANDOFF 4.6MM 19.1MM ABS
2	23	30-21-0004	1				A	STRAIN RELIEF CABLE 3/8 x 0.5" NYLON BLACK
2	24	30-27-0059	5	EA				LENS LED .19" DIA x .29" HT PLASTIC CLEAR SNAP IN
2	25	30-27-0136	1	EA			B	HOUSING SNAP DOME 1.5 x .12 x .77 ABS BLACK X1-1
2	26	30-27-0217-1	1				G	BUTTON 4 WAY TOP .8 DIA x .4 HT ABS NO PLTG
2	27	30-27-0218	1	EA			A	BUTTON 4 WAY BOTTOM .8 DIA x 0.5 HT ABS
2	28	30-27-0221	1	EA			B	4-WAY SW PIVOT PIN .37 x .200 DIA NYLON 6/6 WHITE
2	29	30-27-0459	1	EA			X2	BEZZEL LCD DISPLAY PC 3.04 X 1.05 X 0.11 INCH P16-3
2	30	30-27-0461	1	EA			A	FRAME 4-WAY SWITCH OD 1.035 X 0.62 INCH P16-3
2	31	30-27-0463	2	EA			A	BUTTON 0.93 X 0.66 X 0.48 INCH ABS P16-3
2	32	30-27-0494	1				A	NUT CASING 32.0MM NYLON 15.5MM 9.5MM BLACK P16-2
2	33	30-45-0032	10				X1	KNOB SMALL 0.4INCH ABS BLACK P16-2 -3

2	34	30-45-0033	1			A	KNOB SMALL 0.4INCH ABS BLACK W/O INDICATOR P16-2 -3
2	35	30-48-5012	8	EA			BUMPER RUBBER .465" OD BLACK
2	36	30-51-0078	3	EA			TACTILE DOME 20MM SST NP
2	37	30-51-0181	1	EA		E	PEDAL 8.0 x 1.7 x 3.0 16AWG CRS NICKEL FLOORPOD XT
2	38	30-51-0477	1	EA		A	SUPPORT CORRUGATED STEEL ZINC PLATED SILVER 0.98 INCH 1.04 INCH 6.64 INCH
2	39	30-51-0478	1	EA		A	CHASSIS TOP AISI 1008 OR EQUIV POWDER BLACK 18.29 INCH 1.92 INCH 9.56 INCH P16-2
3	1	41-00-0276	0			J	ARTWORK SILKSCREEN CHASSIS TOP REAR SPIDER LIVE MID
2	40	30-51-0479	1	EA		A	CHASSIS BOTTOM P16-2
3	1	41-00-0279	0			E	ARTWORK SILKSCREEN CHASSIS BOTTOM SPIDER LIVE MID
2	41	30-51-0491	1	EA		A	GUARD KNOB STEEL CHROME PLATED 8.867 INCH 1.06 INCH P16
2	42	30-51-0495	1			A	BRACKET STOP STEEL 10.0MM 14.0MM 63.0MM P16-2
2	43	30-60-0009	1			A	LOGO LINE 6 P3-1
2	44	30-63-0002	1	EA		A	FOAM STRIP VOLARAPOLYOLEFIN 7.25x.37x.062" SELF ADHSV BLK
2	45	30-63-0024	1	EA			INSULATOR HEAT SHRINK WHITE 0.25" O.D. x 0.55" LG
2	46	30-63-0028	1	EA		A	FOAM RING 4-WAY SW RET PU .75 OD x .40 ID x .18 HT BLK
2	47	30-63-0053	2			A	FOAM 98MM 7MM 0.5MM FOAM
2	48	30-63-0060	1			A	FOAM 20MM 9.5MM 13MM FOAM BLACK P16-2 -3
2	49	30-75-0007	2	EA			RUBBER PEDAL STOP FOAM 2.63 x .25 x .06
2	50	30-75-0011	2	EA		A	STOP PEDAL RUBBER .81SQ x .52 BLACK
2	51	30-75-0026	1			A	PAD RUBBER PEDAL HOLE 2.7 x 1.3 x .06 BLACK X1-1
2	52	30-75-0082	1			A	FOOT RUBBER RUBBER BLACK 2.87 INCH 0.125 INCH 7.86 INCH P16-2
2	53	40-30-0013	1			A	LABEL SERIAL NUMBER/ PART NUMBER STANDARD MATTE WHITE
2	54	50-02-0362	1			A	PCBA UI SPIDER LIVE MID P16-2
3	1	01-04-02R2	1		R46		RES 2.2R 5% 1206
3	2	01-25-0000	1		R41		RES OR 1% 0603
3	3	01-25-1000	16		R6-R13,R21,R25,R27-R28,R31,R33,R37,R39		RES 100R 1% 0603
3	4	01-25-40R2	9		R1,R23-R24,R26,R29-R30,R32,R34,R38	A	RES 40R2 1% 0603
3	5	01-25-4751	8		R20,R22,R35-R36,R42-R45		RES 4.75K 1% 0603
3	6	01-48-6103	10		R2-R5,R14-R19		POT MONO 10KB LINEAR TAPER 25MM W/9MM NUT D-SHAFT
3	7	03-57-0105	4		C26,C28,C30,C32		CAP X5R 1uF 10V 10% 0603
3	8	03-58-0104	9	EA	C1,C10-C11,C27,C29,C31,C33-C35		CAP X7R 0.1uF 25V 10% 0603
3	9	03-80-0107	1		C24		CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8
3	10	03-80-0108	3		C25,C36-C37		CAP ELEC 1000uF 6.3V 20% SM 10/10.2/12
3	11	06-23-0050	3		D23-D25		DIODE SCHOTTKY DUAL 30V 225MW 5NS SOT-23
3	12	01-25-6102	4		Q1-Q4		TRANS N-CHANNEL MOSFET SOT-23 SM
3	13	12-62-0053	2		U1-U2		IC SWITCH ANALOG TRIPLE 2-CHAN TSSOP-16 SM
3	14	15-65-0574	4		U3-U6		IC 74LVC574A OCTAL D-TYPE FLIP FLOP 5V EDGE TRIGGER SO20 SM
3	15	18-00-0314	3		D7,D18,D21		LED RED DIFFUSED TH
3	16	18-04-0001	1		D22		LED GREEN SUPER BRIGHT TH
3	17	18-06-0003	17		D1-D6,D9-D17,D19-D20		LED RED/GRN CYLINDRICAL T-1 3M M 3-PIN COM-CATH 627/565nm TH
3	18	18-12-0001	1		D8	A	LED 7 SEG YELLOW 3 DIGIT w/DP 9.14MM TH
3	19	18-30-0020	1				DISPLAY LCD MODULE 2X16 POS CHARACTER 6-OCLOCK WHITE
3	20	21-20-1006	1		J1		HDR SIL PCB-MT 6 PIN 1 x 6 x 2 MM MALE SHRD RT-ANGLE TH
3	21	21-21-2012	1		J2		HDR DIL PCB-MT 12 PIN 2 X 6 X .100 MALE SHRD RT ANG
3	22	21-30-0015-2	2		JMP1	D	CBL RIBBON SIL 6 COND 26AWG 2.54MM 2.0" W/SPLIT ENDS S/T
3	23	21-34-0151	1		J4	XO	CBL ASSY RIBBON 40 POS 28AWG 1-STAKED/1-FEM
3	24	24-12-0006	1		E1		ENCODER 20 STEP w/SWITCH 15MM D-SHAFT METAL V-MNT PCB
3	25	24-31-1105	6		SW1-SW6		SWITCH TACT 6MM SQ 4 PIN TH
3	26	30-00-0254	4			XO	SCREW 2.0MM 66 UNC PH 6MM STEEL ZN
3	27	30-00-0255	4			X2	NUT HEX M2.0 ZINC

3	28	30-15-0423	17			X1	SPACER LED SPACER 6.75MM ABS 2.15MM BLACK SMOOTH
3	29	30-15-4027	4			X0	SPACER DIA 0.188IN HEIGHT 0.25IN PVC
3	30	30-27-0462	1			A	SUPPORT LED DISPLAY 1 X 0.665 X 0.6 INCH P16-3
3	31	35-00-0362	1	EA		A	PCB UI SPIDER LIVE MID P16-2
2	55	50-02-0363	1			A	PCBA MAIN P16-2
3	1	01-24-0000	7		L1,L11-L12,L16,L18,R185,R206		RES OR 1% 0805
3	2	01-24-1R00	1		R104		RES 1.0R 1% 0805
3	3	01-25-0000	9		C115,R29,R36,R96,R110,R160,R200,R279,R327		RES OR 1% 0603
3	4	01-25-01R0	7		R2,R15,R107,R132,R155,R278,R314	A	RES 1.0R 1% 0603
3	5	01-25-1000	17		R138,R144-R146,R150,R156-R159,R161-R168		RES 100R 1% 0603
3	6	01-25-1001	15		L24,R58,R74,R80-R81,R90-R91,R151,R192,R194,R280,R283-R285,R324		RES 1.00K 1% 0603
3	7	01-25-1002	22		R6,R14,R22-R23,R26,R33-R34,R38,R44,R49,R95,R111,R122,R124,R139,R141,R174-R175,R276-R277,R281,R317		RES 10.0K 1% 0603
3	8	01-25-1003	18		R5,R17,R24-R25,R70-R71,R105,R108,R134,R290-R295,R320,R325-R326		RES 100K 1% 0603
3	9	01-25-1004	1		R129	A	RES 1.00M 1% 0603
3	10	01-25-10R0	3		R1,R153-R154	A	RES 10.0R 1% 0603
3	11	01-25-1100	1		R226		RES 110R 1% 0603
3	12	01-25-1183	1		R286	A	RES 118K 1% 0603
3	13	01-25-1244	1		R288		RES 1.24M 1% 0603
3	14	01-25-1302	2		R20,R27		RES 13.0K 1% 0603
3	15	01-25-1501	7		R13,R54,R60-R62,R114,R117	A	RES 1.50K 1% 0603
3	16	01-25-1502	5		R51,R53,R72,R112-R113		RES 15.0K 1% 0603
3	17	01-25-1691	2		R76,R152	A	RES 1.69K 1% 0603
3	18	01-25-1820	1		R103	A	RES 182R 1% 0603
3	19	01-25-2001	7		R16,R28,R63,R66,R94,R109,R319	A	RES 2.00K 1% 0603
3	20	01-25-2051	4		R32,R35,R43,R52	A	RES 2.05K 1% 0603
3	21	01-25-2212	1		R323	A	RES 22.1K 1% 0603
3	22	01-25-2213	1		R287	A	RES 221K 1% 0603
3	23	01-25-22R1	6		R11-R12,R31,R67,R115-R116	A	RES 22.1R 1% 0603
3	24	01-25-2491	3		R7-R8,R92	A	RES 2.49K 1% 0603
3	25	01-25-2802	1		R93	A	RES 28.0K 1% 0603
3	26	01-25-3011	4		R88-R89,R193,R195	A	RES 3.01K 1% 0603
3	27	01-25-3091	2		R18,R73	A	RES 3.09K 1% 0603
3	28	01-25-3240	4		R40-R41,R46-R47	A	RES 324R 1% 0603
3	29	01-25-4750	1		R301		RES 475R 1% 0603
3	30	01-25-4751	33		R30,R55,R125-R128,R130-R131,R135-R136,R143,R147-R149,R170-R173,R176-R177,R179-R184,R186-R191,R218		RES 4.75K 1% 0603
3	31	01-25-47R5	11		R37,R50,R56,R59,R64-R65,R68-R69,R101,R118,R169		RES 47.5R 1% 0603

3	32	01-25-4872	1		R282		A	RES 48.7K 1% 0603
3	33	01-25-4994	1		R57			RES 4.99M 1% 0603
3	34	01-25-5R11	3		R123,R142,R205			RES 5.11R 1% 0603
3	35	01-25-6191	4		R39,R42,R45,R48			RES 6.19K 1% 0603
3	36	01-25-68R1	13		R82-R87,R97-R99,R106,R121,R196,R328			RES 68.1R 1% 0603
3	37	01-25-6982	1		R289		A	RES 69.8K 1% 0603
3	38	01-25-8250	2		R3-R4			RES 825 1% 0603
3	39	01-28-2000	1		R329			RES 200R 1% 1206
3	40	01-28-R221	5		R102,R119,R133,R137,R321			RES 0.22R 1% 1206
3	41	01-28-R270	1		R100			RES 0.270R 1% 1206
3	42	01-48-9103	1		R9			POT DUAL 10KA AUDIO TAPER HORIZ MT 25MM RND PLASTIC
3	43	03-12-0108	1		C53			CAP ELEC 1000uF 16V 20% RADIAL 10/16/5
3	44	03-36-0224	1		C1			CAP ESTR 0.22uF 50V 5% TH 11/6/11.5/7.5
3	45	03-44-0331	2		C314,C316		A	CAP NPO 330PF 1000V 5% 1206
3	46	03-46-1104	1		C317		A	CAP X7R .1UF 500V 10% 1812
3	47	03-50-0182	6		C24,C26,C50,C55,C335-C336			CAP NPO 1800pF 50V 5% 0805
3	48	03-50-0562	4		C13,C16,C27,C38			CAP NPO 5.6nF 50V 10% 0805
3	49	03-56-0101	8		C4-C5,C18,C111,C117,C130-C131,C324			CAP NPO 100pF 50V 5% 0603
3	50	03-56-0102	3		C14,C119,C129			CAP NPO 1nF 50V 5% 0603
3	51	03-56-0180	8		C29,C39,C74,C83,C134-C135,C203,C207			CAP NPO 18pF 50V 5% 0603
3	52	03-56-0221	2		C58,C99			CAP NPO 220pF 50V 5% 0603
3	53	03-56-0331	1		C319			CAP NPO 330pF 50V 5% 0603
3	54	03-56-0471	5		C93,C120,C122-C123,C127		A	CAP NPO 470pF 50V 5% 0603
3	55	03-56-0680	4		C15,C19,C25,C28			CAP NPO 68pF 50V 5% 0603
3	56	03-57-0105	14		C7,C10,C54,C64,C66,C80,C89,C149,C186,C194,C196,C221,C299,C315			CAP X5R 1uF 10V 10% 0603
3	57	03-58-0102	24		C84,C113-C114,C121,C124-C126,C133,C144,C152,C159,C165,C172,C180,C187,C189,C197,C297-C298,C302,C337-C340			CAP X7R 1nF 50V 10% 0603
3	58	03-58-0103	18		C87-C88,C105-C106,C146,C153,C156-C157,C162,C171,C173,C179,C185,C191,C193,C295-C296,C301			CAP X7R 10nF 50V 10% 0603

					C2,C6,C12,C20,C23,C30-C36,C43,C52,C57,C59-C60,C65,C73,C75,C81-C82,C85,C90,C94,C96,C100,C110,C112,C116,C118,C136-C143,C145,C147-C148,C150-C151,C154-C155,C158,C160-C161,C164,C166,C169-C170,C178,C181-C184,C188,C190,C192,C198-C202,C204-C206,C208-C220,C225-C226,C293-C294,C300,C304-C305,C308-C309,C312-C313,C318,C321			CAP X7R 0.1uF 25V 10% 0603
3	59	03-58-0104	95					CAP ELEC 100uF 10V 20% SM 6.3/5.4/7.8
3	60	03-80-0107	5					CAP ELEC 1000uF 6.3V 20% SM 10/10.2/12
3	61	03-80-0108	3					CAP ELEC 1500UF 6.3V 20% 105C LOW-ESR 0.06R SM 10/10.2/12
3	62	03-80-0158	2					CAP ELEC 220uF 10V 20% SM 8/6.2/9.5
3	63	03-80-0227	1					CAP ELEC 47uF 6.3V 20% SM 5.5/4/5.4
3	64	03-80-1476	4					CAP ELEC 470uF 6.3V 20% VS SM
3	65	03-80-1477	2					
3	66	03-82-0106	16					CAP ELEC 10uF 16V 20% SM 4/5.4/5.5
3	67	03-82-0107	3					CAP ELEC 100uF 16V 20% VS SM
3	68	03-82-0477	8					CAP ELEC 470uF 16V 20% SM 10/10.2/12
3	69	04-01-0004	2					INDUCTOR CHOKE 150uH 0.4R 1A SM SHIELDED
3	70	04-04-0001	2					FERRITE BEAD 3 TURN 600R @ 100MHZ MATERIAL 61 RADIAL TH
3	71	04-05-0013	3					FERRITE BEAD 68R @ 100MHZ 300MA 0603 SM
3	72	06-20-0099	6					DIODE GEN PUR DUAL 70V 215mA 6nS SOT-23 SM
3	73	06-23-0054	3					DIODE SCHOTTKY DUAL 30V 200mA 5nS SOT-23 SM
3	74	06-32-0130	4					DIODE SCHOTTKY 1A 30V SMB SM
3	75	06-32-0340	1					DIODE SCHOTTKY 3A 40V SMB SM
3	76	06-34-0016	1					DIODE SWITCHING 75V 200mA 6nS SOT-23 SM
3	77	09-06-7002	1					TRANS MOSFET N-CHAN 60V 7R5 SOT-23 SM
3	78	09-10-4020	1					TRANS BIPOLAR POWER PNP -2A -40VDC SOT-23 SMD
3	79	09-10-4401	4					TRANS NPN SMALL SIGNAL SOT-23 SM
3	80	09-14-3098	1					TRANS MOSFET P-CHAN 30V 3.8A SOT-23 SMD
3	81	11-00-0012	1					CRYSTAL 12MHz SM HC49 FOXSDLF
3	82	11-00-1003	1					CRYSTAL 24.576MHz HC49S 2PIN SM
3	83	11-00-6018	1					CRYSTAL 6MHz HC49U SM
3	84	11-10-2012	15					FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM
3	85	11-33-0000	1					XFMR AUDIO DIGITAL X-MISSION 1:1 W/ CENTER-TAP
3	86	12-52-0002	1				A	IC REG LINEAR LDO 3.3V 150mA S M
3	87	12-52-0003	2				A	IC REG LINEAR LDO +5V 500mA SM
3	88	12-52-1119	1				A	IC VREG LINEAR LDO ADJ 800MA LM1117 DPAK TO-252 SMD
3	89	12-54-0072	2					IC OP AMP DUAL TL072 SM
3	90	12-54-0074	4					IC OP AMP TL074 SM
3	91	12-62-4051	1					IC SWITCH ANALOG 8-CHAN TSSOP-16 SM
3	92	12-64-4272	1					IC STEREO AUDIO CODEC 24 BIT 192 KHz CS4272 SM
3	93	15-40-6137	1					IC OPTO ISOLATOR 6N137 10MBIT DIP 8-PIN TH
3	94	15-52-0541	1				A	IC 74LVC541A LOW VOLT OCTAL BU FFER/DRIVER SOIC-20 SM
3	95	15-65-0138	1					IC 74LVC138 DECODER/DEMUX 3-8 LINE SO-16 SM
3	96	15-65-0574	1					IC 74LVC574A OCTAL D-TYPE FLIP FLOP 5V EDGE TRIGGER SO20 SM

3	97	15-67-3295	1		U33		A	IC RS-485/422 LINE DRIVER 3.3V SOT-23-6 SM
3	98	15-68-1020	1		U3			IC CONTROLLER USB STREAMING SM
3	99	15-68-2374	2		U10,U21			IC PWM DC/DC CONVERTER DMP8 SM
3	100	15-70-0005	2		U16,U28			IC SDRAM 3.3V 64MB 1M x 16 x 4 EM638165TS-7G TSOP-54 SM
3	101	15-78-4128	1		U9			IC EEPROM 128K 2.5V 400KHz SOI C-8 SM
3	102	15-86-2369	1		U14			IC DSP SHARC PROCESSOR 32 BIT ADSP-21369 LQFP208EP SM
3	103	15-92-5809	2		U18,U34			IC RESET 3 PIN 3.3V ACTIVE LOW OUTPUT SOT-23 SM
3	104	15-98-0000	1		R120		A	IC POT DIGITAL NON-VOL DUAL 10K SPI 2.7-5.5V 7BIT 129 14TSSOP SM
3	105	21-00-0014	1		J6			JACK BARREL PCB MT 2.5MM DC PO WER 3 PIN TH
3	106	21-00-6617	4		J1-J3,J5			JACK 1/4" TRS PCB MOUNT 6 PIN HORIZONTAL W/CHROME HRDWARE TH
3	107	21-08-0013	3		J8-J9,J21			JACK XLR MALE PCB MOUNT RIGHT ANGLE TH
3	108	21-12-0035	1		J4			JACK 3.5MM STEREO 5 PIN CRIMPE D LEADS NON-THREADED
3	109	21-18-0002	1		BR1			TERMINAL SCREW PCB MOUNT RIGHT ANGLE SNAP-IN 6-32 THREAD
3	110	21-20-0108	1		J10			HDR SIL PCB-MT 8 PIN 1 x 8 x 2MM MALE SHRD RA MT TH
3	111	21-21-0001	1		J7			JACK USB SERIES B SHIELDED PCB MNT BLACK
3	112	21-21-2040	1		J11			HDR DIL PCB-MT 40 PIN 2 X 20 X .100 MALE SHRD RT ANG
3	113	24-09-0128	1		SW3			SWITCH SLIDE DPDT ON/OPEN/ON RIGHT ANGLE PCB MNT
3	114	24-09-0222	2		SW1-SW2			SWITCH SLIDE DPDT 4.5MM SHAFT HORIZONTAL MNT
3	115	30-18-3030	8		GF1-GF8			CLIP GROUND PCB .30 x .30 x .07
3	116	30-51-0518	1		SH1		A	CAN SHIELD 1/4 JACK COPPER NICKEL PLATED NATURAL 0.89 INCH 0.65 INCH 2.326 INCH
3	117	35-00-0363	1				A	PCB MAIN P16-1 P16-2
3	118	45-01-0062	1		U17	V1.03		IC PROGRAMMED MCU SPIDER LIVE MID P16-2
4	1	15-84-2134	1					IC MCU 16/32BIT ARM7TDMI W/ 128KB FLASH 16K SRAM LQFP64 SM
3	119	45-02-0060	1		U15	V1.03		IC PROGRAMMED FLASH SPIDER LIVE MID P16-2
4	1	15-78-2532	1					IC FLASH 32Mbit SPI SERIAL SOIC-8 200mil SM
2	56	50-02-0366-1	1				B	PCBA FOOTSWITCH TOP BREAK AWAY P16-2
3	1	6/4/5817			D11			DIODE SCHOTTKY 20V 1A DO-41 AXIAL TH 1N5817
3	2	18-06-0003	1		D3			LED RED/GRN CYLINDRICAL T-1 3M M 3-PIN COM-CATH 627/565nm TH
3	3	21-34-0148	1	EA	J1		X0	CBL ASSY 6-COND 26AWG 1-STAKED/1-FEM
3	4	24-31-1105	1		SW3			SWITCH TACT 6MM SQ 4 PIN TH
3	5	35-00-0366-1	1				B	PCB FOOTSWITCH TOP BREAK AWAY P16-2
2	57	50-02-0366-2	1				B	PCBA FOOTSWITCH BOTTOM BREAK AWAY P16-2
3	1	6/4/5817	5		D1-D2,D10,D13,D15			DIODE SCHOTTKY 20V 1A DO-41 AXIAL TH 1N5817
3	2	18-06-0003	8		D4-D9,D12,D14			LED RED/GRN CYLINDRICAL T-1 3M M 3-PIN COM-CATH 627/565nm TH
3	3	21-34-0150	1	EA	J2		X0	CBL ASSY RIBBON 12 POS 28AWG 1-STAKED/1-FEM
3	4	24-31-1105	5		SW4-SW8			SWITCH TACT 6MM SQ 4 PIN TH
3	5	35-00-0366-2	1				B	PCB FOOTSWITCH BOTTOM BREAK AWAY P16-2
2	58	50-02-0368	1	EA			A	PCBA PEDAL P16-1 P16-2
3	1	01-25-1002	1		R1			RES 10.0K 1% 0603
3	2	03-57-0105	1		C2			CAP X5R 1uF 10V 10% 0603
3	3	03-58-0104	2		C1,C3			CAP X7R 0.1uF 25V 10% 0603
3	4	09-20-0095	1		Q1			PHOTOTRANSISTOR BLUE LENS SM
3	5	11/10/2012	2		L1-L2			FERRITE BEAD 600R @ 100MHz 300 mA 0805 SM
3	6	18-27-0083	1		D1			LED INFRA-RED 880nm CLEAR LENS
3	7	21-20-1208	1		J1		A	HDR SIL PCB-MT 8 PIN x 2MM MAL E SHRD HORIZONTAL MNT SM
3	8	35-00-0368	1				B	PCB PEDAL P16-1 P16-2
2	59	50-03-0071	6	EA			B	ASSY FOOTSWITCH W/LIGHTPIPE CHROME
3	1	30-27-0260	1	EA			A	FOOTSWITCH PUSH PIN .15 DIA x .15 LONG ABS BLACK P11-1
3	2	30-27-0261	1	EA			C	LIGHT PIPE FOOTSWITCH 1.1 x .8 x .6 PC CLEAR P11-1
3	3	30-51-0290	1	EA			C	FOOTSWITCH BASE 1.3 x .5 x .5 ADC P11-1
3	4	30-51-0291	1	EA			D	FOOTSWITCH PLUNGER 0.5 DIA x 0.76 LG SST P11-1
3	5	30-51-0293	1	EA			B	SPRING 9 COIL .30 DIA x .82 x .024 STEEL ZINC PLATE P11-1
3	6	30-51-0294	1				D	SPRING 8 COIL .14 x .35 x .020 STEEL ZINC PLATE P11-1

3	7	30-51-0295	1						CLIP E STYLE FOR 7/32" DIA SHAFT STEEL BLACK PHOS P11-1
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