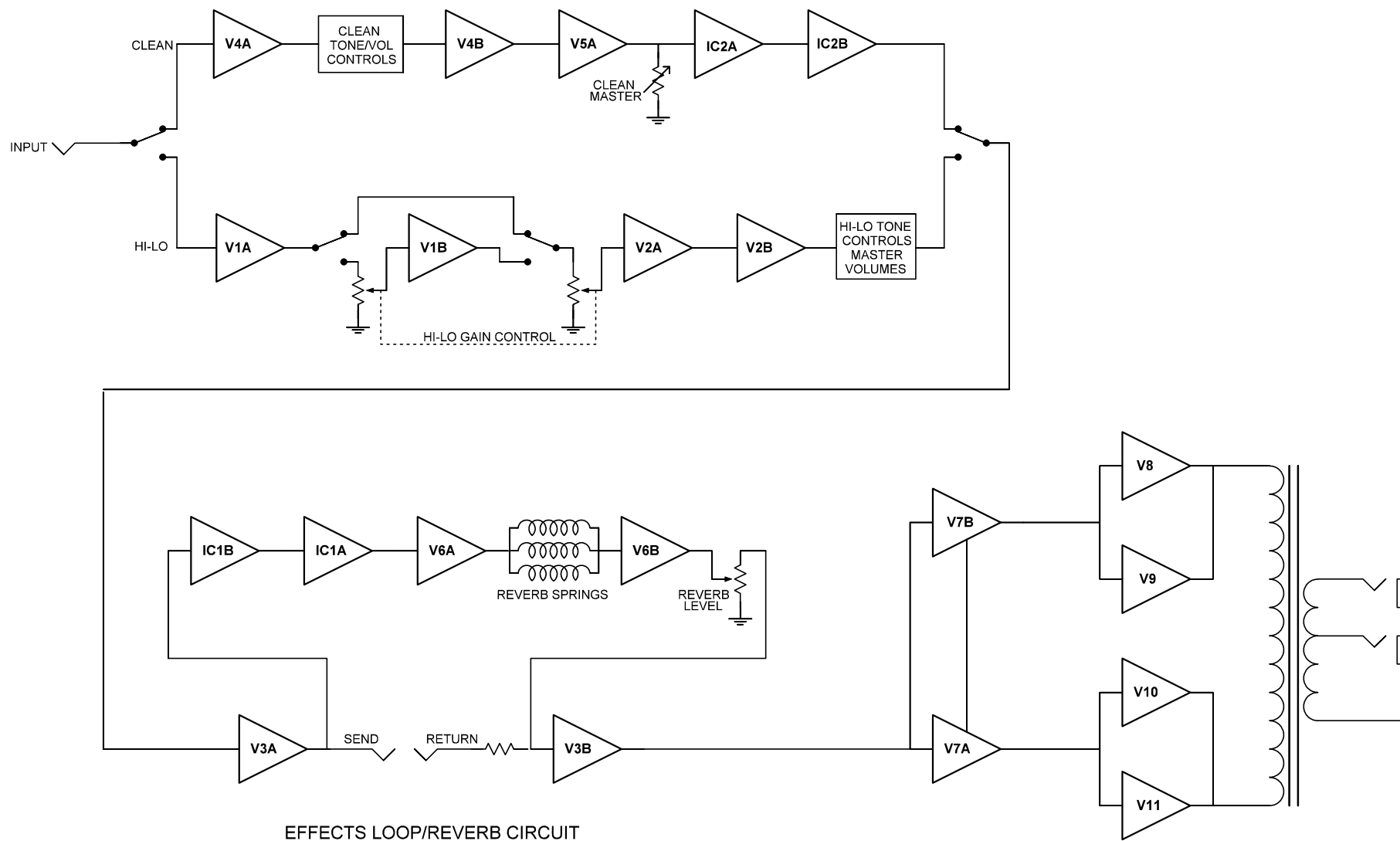
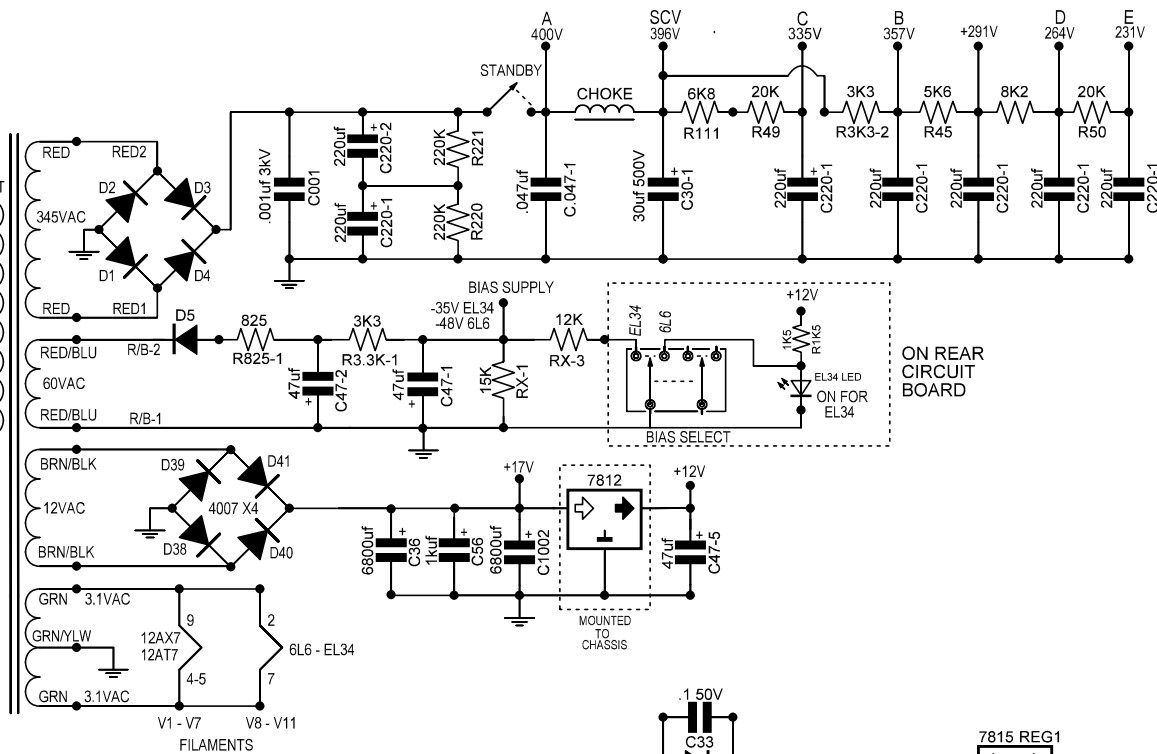
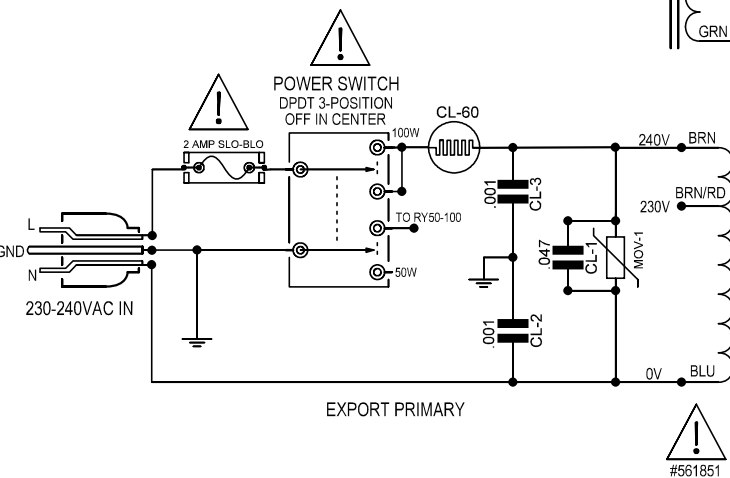




EFFECTS LOOP/REVERB CIRCUIT

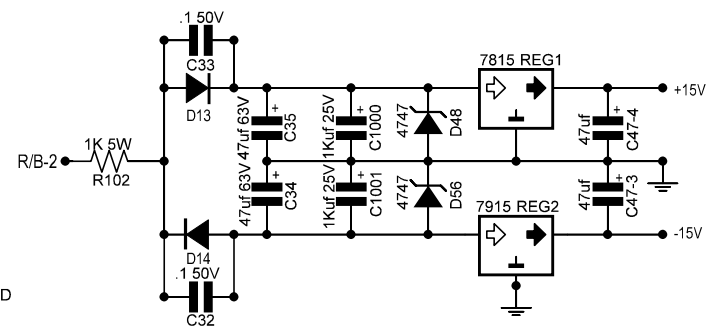
Covered under one or more of the following patents: 5,168,438; 5,208,548; 5,559,469; 5,793,252; 6,522,752; 6,621,907; 6,724,897; 7,173,488; 7,193,468; 7,412,064; 7,602,927	MESA/BOOGIE		DATE: 7-19-2011
	ROYAL 100		PAGE: 1 OF 8
	Block Diagram		DRAWN BY: JOHN M
	COPYRIGHT 2010 MESA BOOGIE, LTD.		BOARD REV: ROYL100E
			FILE NAME: Royal 100



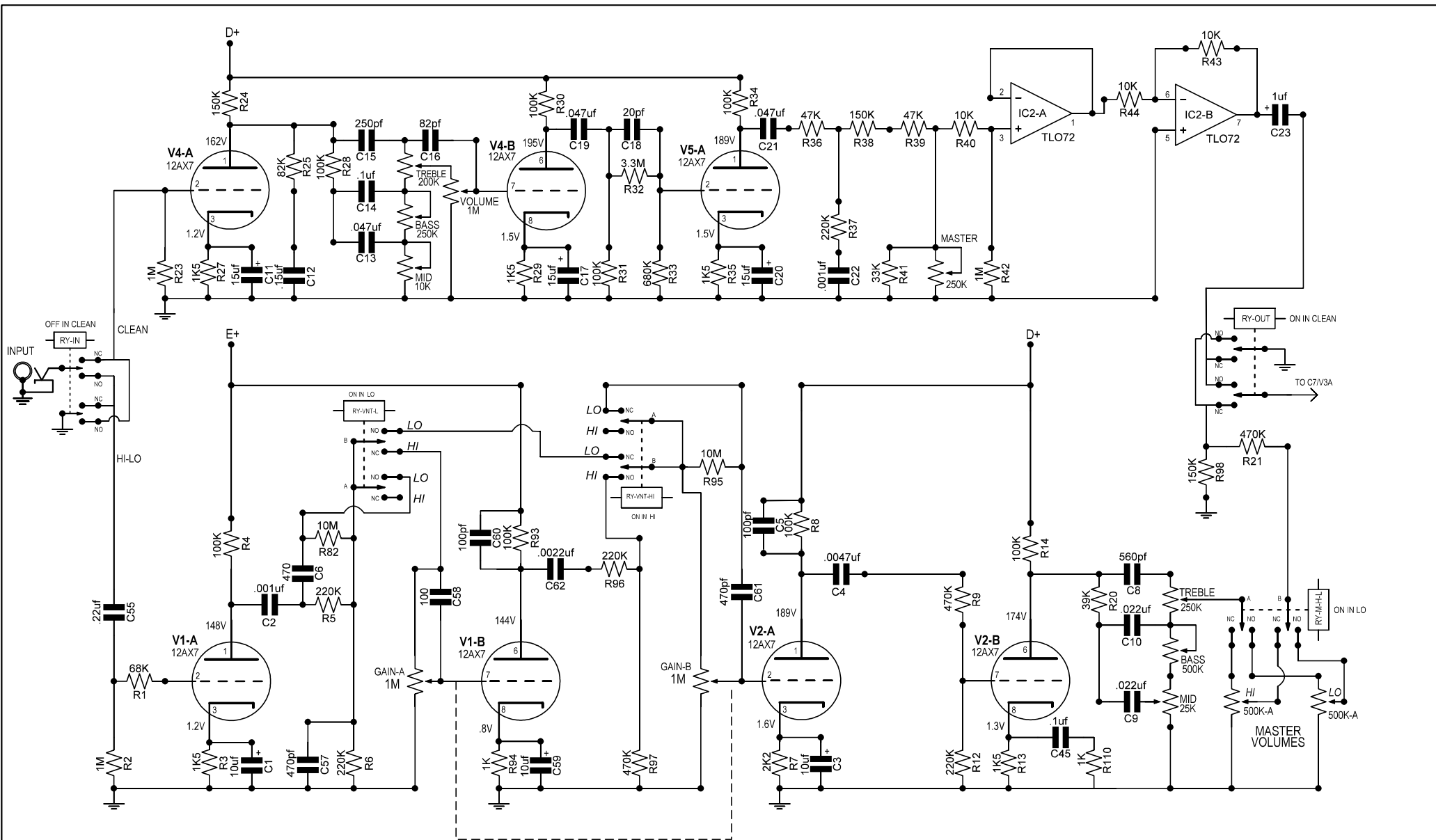
ALL VOLTAGES MEASURED
WITH 117VAC IN
100W SETTING
EL34 BIAS

RELAY FUNCTION:
NC=NORMALLY CLOSED, NOT ENERGIZED
NO=NORMALLY OPEN, ENERGIZED

SEE PG 8 FOR COMPLETE REAR CIRCUIT BOARD



Covered under one or more of the following patents: 5,168,438; 5,208,548; 5,559,469; 5,793,252; 6,522,752; 6,621,907; 6,724,897; 7,173,488; 7,193,458; 7,412,064; 7,602,927	MESA/BOOGIE ROYAL 100 Power Supplies COPYRIGHT 2010 MESA BOOGIE, LTD.	DATE: 7-19-2011
		PAGE: 2 OF 8
		DRAWN BY: DVR/JM
		BOARD REV: ROYL100E
		FILE NAME: Royal 100



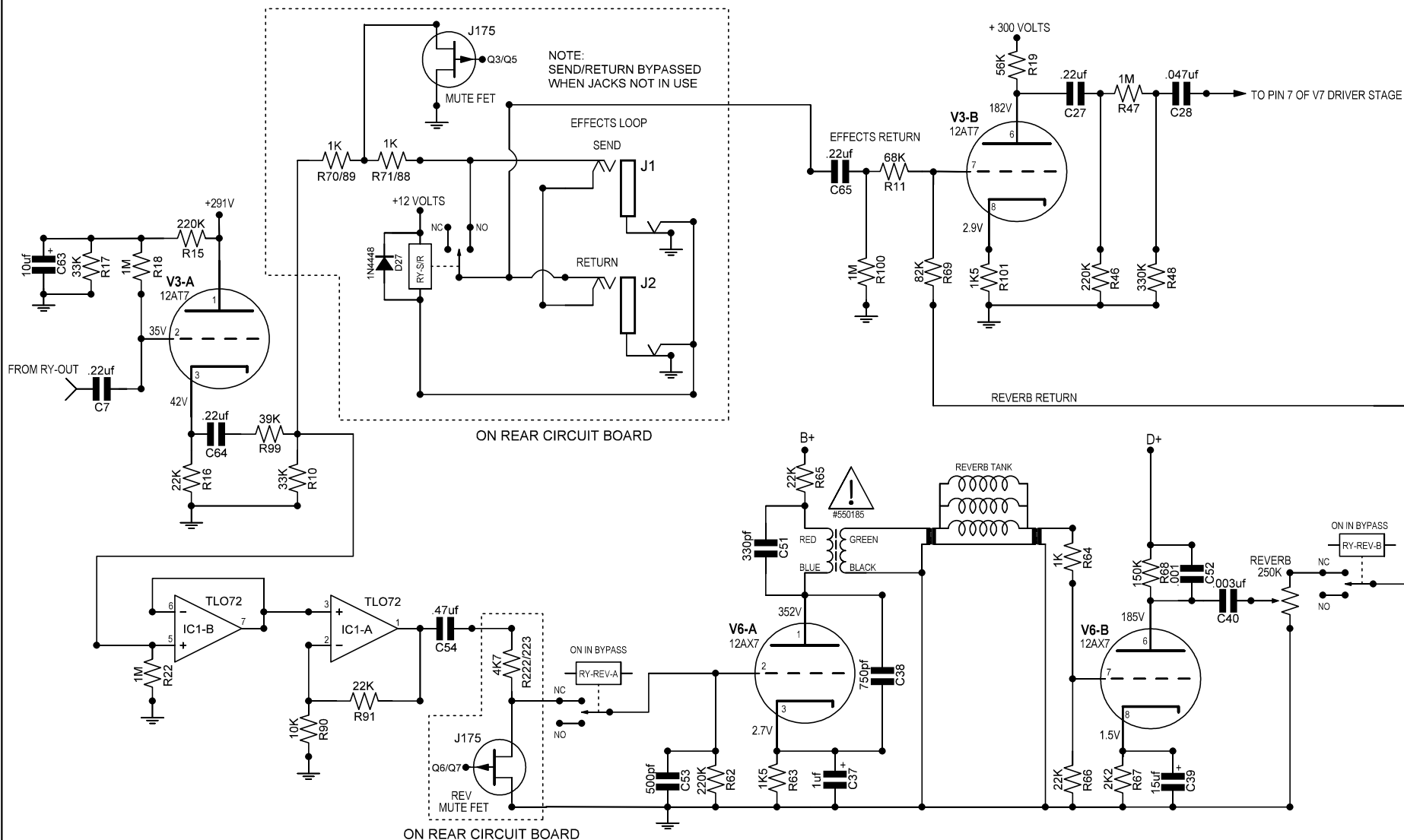
ALL VOLTAGES MEASURED
WITH 117VAC IN
100W SETTING
EL34 BIAS

RELAY FUNCTION:
NC=NORMALLY CLOSED, NOT ENERGIZED
NO=NORMALLY OPEN, ENERGIZED

SEE PG 8 FOR COMPLETE REAR CIRCUIT BOARD

Covered under one or more of the following patents:	
5,168,438; 5,208,548; 5,559,469; 5,793,252; 6,522,752; 6,621,907; 6,724,897; 7,173,488; 7,193,468; 7,412,064; 7,602,927	

MESA/BOOGIE ROYAL 100 Preamp Pt. 1 COPYRIGHT 2010 MESA BOOGIE, LTD.	DATE: 7-19-2011
	PAGE: 3 OF 8
	DRAWN BY: DVR/JM
	BOARD REV: ROYL100E
FILE NAME: Royal 100	



ALL VOLTAGES MEASURED
WITH 117VAC IN
100W SETTING
EL34 BIAS

RELAY FUNCTION:
NC=NORMALLY CLOSED, NOT ENERGIZED
NO=NORMALLY OPEN, ENERGIZED

SEE PG 8 FOR COMPLETE REAR CIRCUIT BOARD

Covered under one or more
of the following patents:
5,168,438; 5,208,548; 5,559,469; 5,793,252;
6,522,752; 6,621,907; 6,724,897; 7,173,488;
7,193,468; 7,412,064; 7,602,927

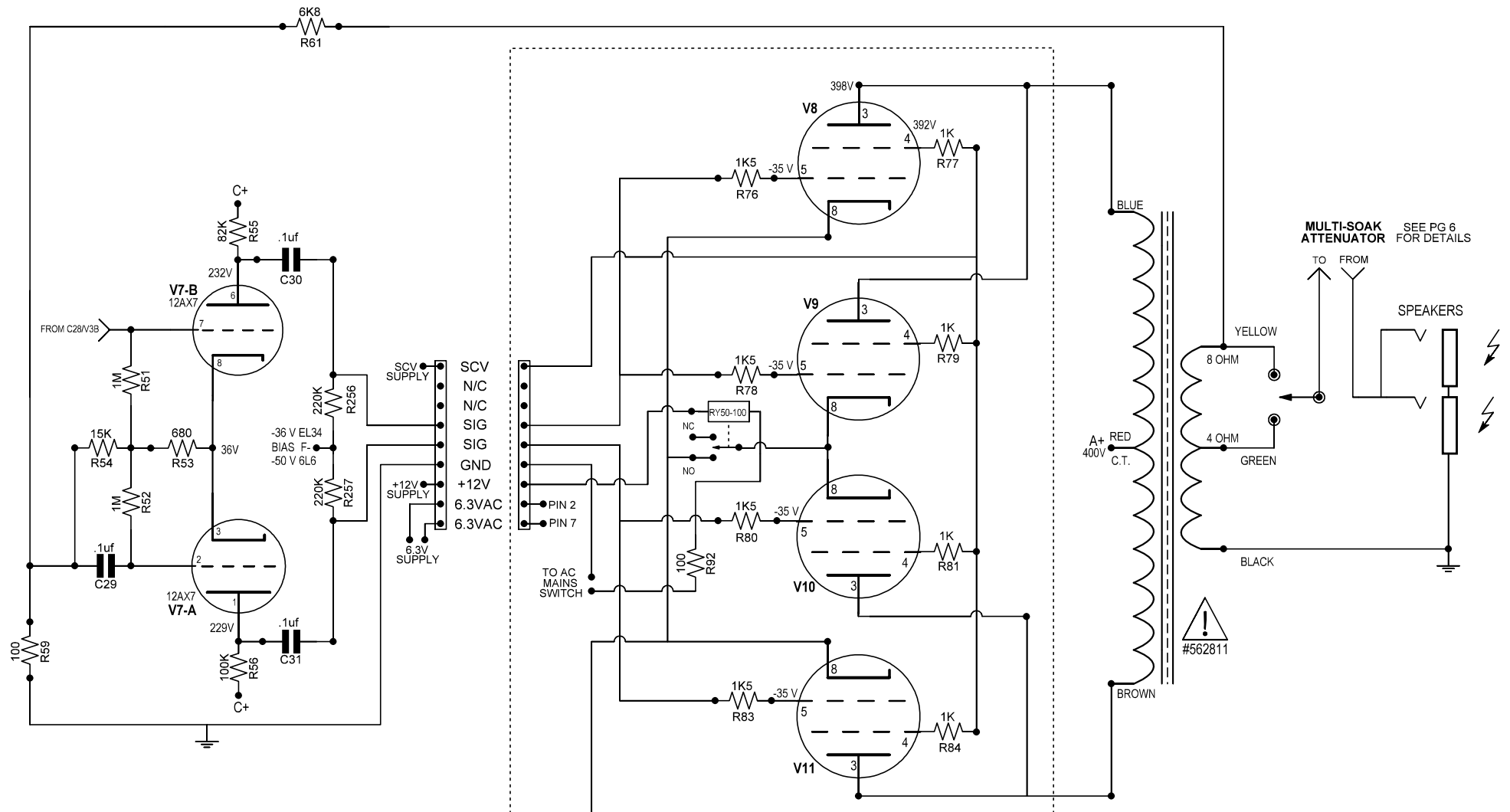
MESA/BOOGIE

ROYAL 100

Reverb/Effects Loop

COPYRIGHT 2010 MESA BOOGIE, LTD.

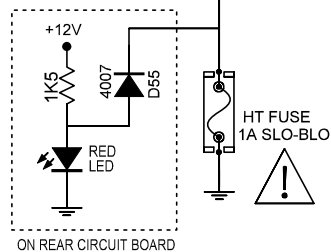
DATE:	7-19-2011
PAGE:	4 OF 8
DRAWN BY:	DVR/JM
BOARD REV:	ROYL100E
FILE NAME:	Royal 100



ALL VOLTAGES MEASURED
WITH 117VAC IN
100W SETTING
EL34 BIAS

RELAY FUNCTION:
NC=NORMALLY CLOSED, NOT ENERGIZED
NO=NORMALLY OPEN, ENERGIZED

SEE PG 8 FOR COMPLETE REAR CIRCUIT BOARD



POWER TUBE CIRCUIT BOARD

EL34 X4 or 6L6 X4

Covered under one or more
of the following patents:
5,168,438; 5,208,548; 5,559,469; 5,793,252;
6,522,752; 6,621,907; 6,724,897; 7,173,488;
7,193,468; 7,412,064; 7,602,927

MESA/BOOGIE

ROYAL 100
Power Amp

COPYRIGHT 2010 MESA BOOGIE, LTD.

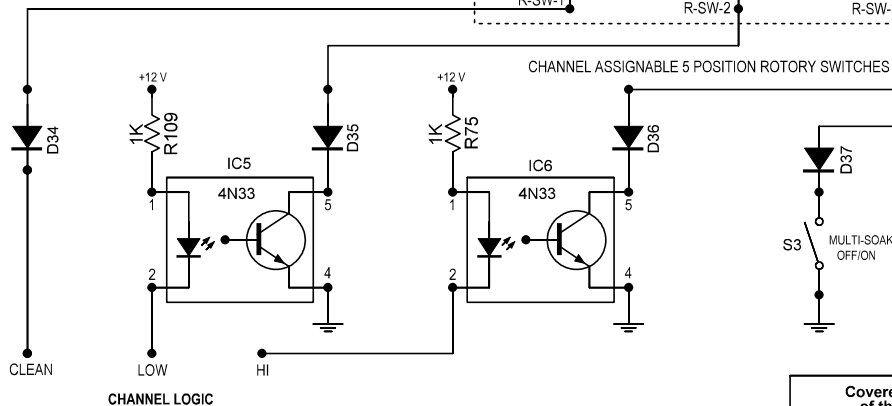
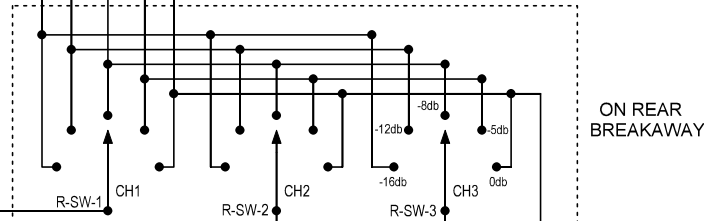
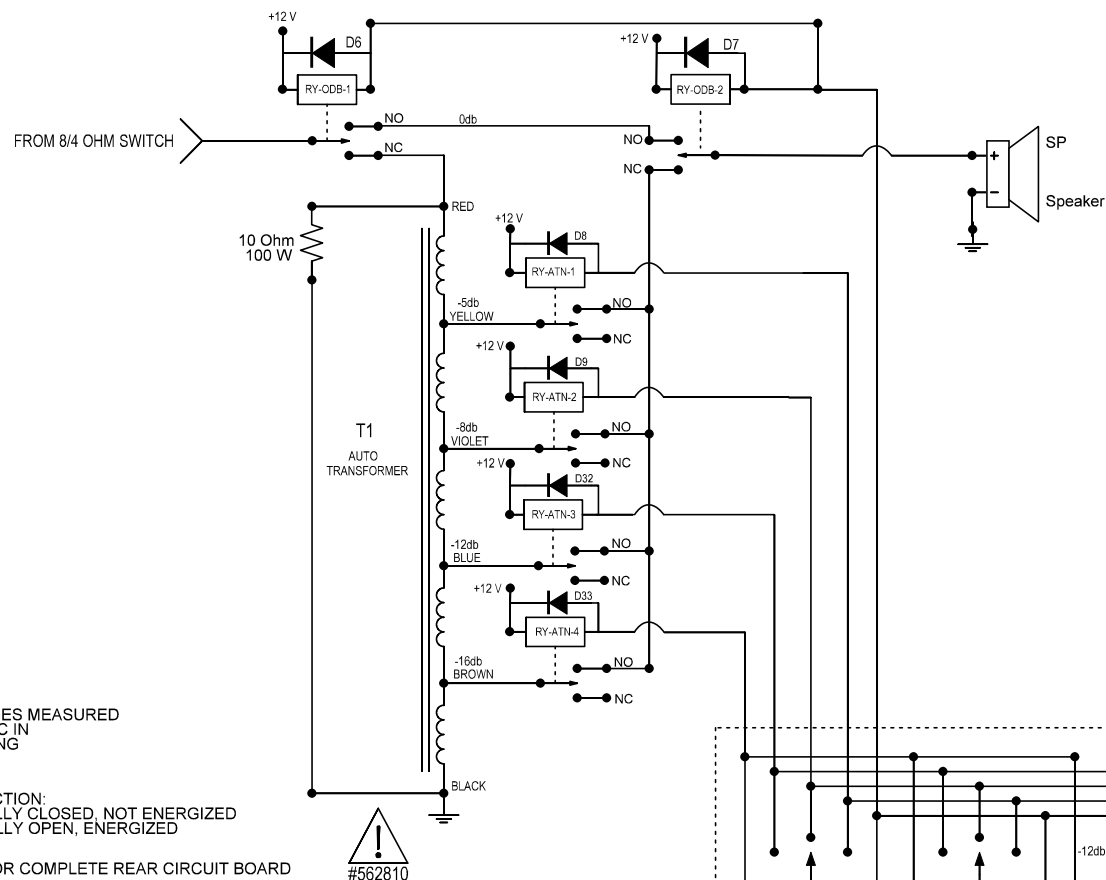
DATE: 7-19-2011

PAGE: 5 OF 8

DRAWN BY: DVR/JM

BOARD REV: ROYL100E

FILE NAME: Royal 100



**MULTI-SOAK ATTENUATOR
PATENT APPLICATION IN PROCESS**

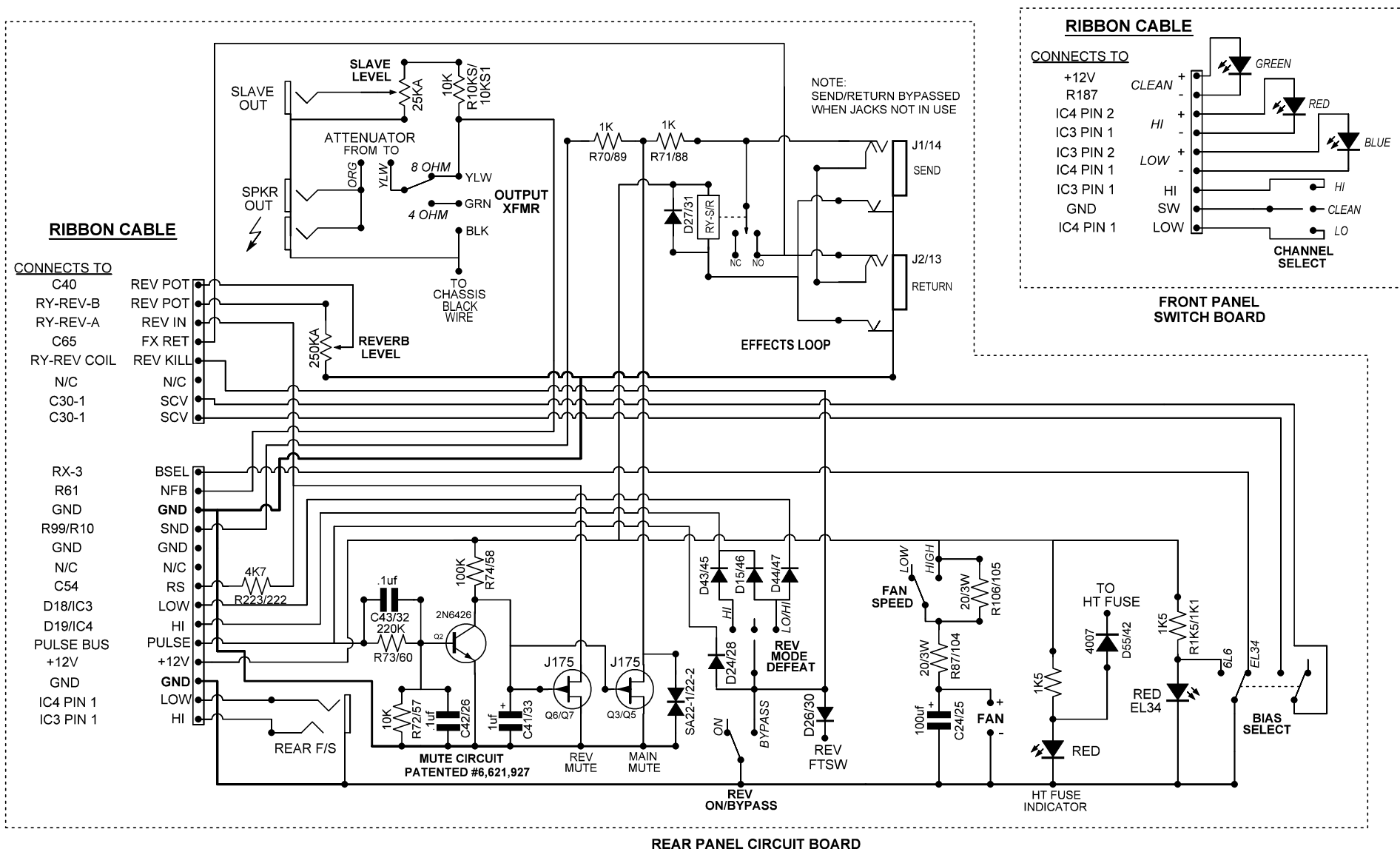
PORTIONS OF THIS CIRCUIT
DUPLICATED ON PAGE 6

Covered under one or more
of the following patents:
5,168,438; 5,208,548; 5,559,469; 5,793,252;
6,522,752; 6,621,907; 6,724,897; 7,173,488;
7,193,468; 7,412,064; 7,602,927

MESA/BOOGIE	DATE: 7-19-2011
	PAGE: 6 OF 8
	DRAWN BY: DVR/JM
	BOARD REV: ROYL100E
	FILE NAME: Royal 100
ROYAL 100	
Attenuator	
COPYRIGHT 2010 MESA BOOGIE, LTD.	



Covered under one or more of the following patents: 5,168,438; 5,208,548; 5,559,469; 5,793,252; 6,522,752; 6,621,907; 6,724,897; 7,173,488; 7,193,458; 7,412,064; 7,602,927		MESA/BOOGIE		DATE: 7-19-2011
				PAGE: 7 OF 8
		ROYAL 100 Switch Matrix		DRAWN BY: JOHN M.
				BOARD REV: ROYL100E
		COPYRIGHT 2010 MESA BOOGIE, LTD.		FILE NAME: Royal 100



ALL VOLTAGES MEASURED
WITH 117VAC IN
100W SETTING
EL34 BIAS

RELAY FUNCTION:
NC=NORMALLY CLOSED, NOT ENERGIZED
NO=NORMALLY OPEN, ENERGIZED

COMPONENT DESIGNATORS SHOWN AS FOLLOWS:
VALUE, COMBO MODEL/HEAD MODEL
I.E., 4K7, R223 FOR COMBO, R222 FOR HEAD

Covered under one or more
of the following patents:

5,168,438; 5,208,548; 5,559,469; 5,793,252;
6,522,752; 6,621,907; 6,724,897; 7,173,488;
7,193,468; 7,412,064; 7,602,927

MESA/BOOGIE

ROYAL 100
Breakaways

COPYRIGHT 2010 MESA BOOGIE, LTD.

DATE: 7-19-2011
PAGE: 8 OF 8
DRAWN BY: JOHN M.
BOARD REV: ROYL100E
FILE NAME: Royal 100