

1500BD

1. Perform a visual inspection of the unit. If the unit appears to be damaged or repaired by the customer, follow procedures for C.W.E.
2. Discharge Amp.
3. Check power supply and channels for shorts or open fets.
4. Check to see if anything is burned, or a lack of solder. Change out burned parts double check your part that it's the correct part. After replacing a part or a set of parts clean with Electro wash than continuing with test procedures.
5. Check rail wire and silver bars jumpers for proper connection, slightly move bars in a back and forward motion. If any cracks in connects or loose resolder for proper connection. Some bars my not resolder properly do to a improper chemical in the jumper bar just need to scrape or use emery cloth for good connection.
6. Check .1UF 35 or 25v Tantalum caps for polarity correctness.
7. Check negative channel output to power supply ground continuity (should be shorted).
8. Check RCA to supply ground (should read D19 diode) also check D13 and D14
9. Hook up Power, Ground and Auto Power. (NO RCA's)
10. check to verify all thermal grease on the heat sink is clean and free of debris before mounting. If needed, wipe off and reapply thermal grease. Continue this process as you remove and replace part only in the area you see debris.
11. Turn on Astron Power (check for any current draw, if any current draw, discharge and fix power Supply). (Main power means apply B+ power.)
12. Turn on Auto Power quickly to verify green and red LED's turn on, red LED should turn off after a second or so. If red LED stays illuminated, repair protection circuit.
13. Turn Auto Power on with scope probe on R186 (signal should go negative for a split second and then turns into a square wave with a little ringing. Signal will look dirty if your
14. scope probe ground is not hooked up. If there is no square wave fix switching circuit on that side of amp. Repeat process until square wave is achieved).
15. Turn Auto Power OFF.
16. Turn Auto Power on with scope probe on R185 (follow instructions on line 12).
17. Turn off auto and Astron power off.
18. Connect RCA's and channel connector.
19. Make sure Frequency selector is set at 20 –200 Hz (Amp gain and frequency pots should be turned all the way clockwise.)
20. Turn on Astron and auto power. (Main power means apply B+ power.)
21. Verify that you have a sine wave with a little ringing.
22. Set signal switch to signal/var(Input variable amplitude sine wave.)
23. Set signal to pink noise.
24. Check crossover for proper frequency cut off points (between 50Hz and 250Hz).
25. check subsonic filter switch use audio control analyzer should see 20hz and below being filtered when switch on. And off should see them filtered out.
26. check 0-180 phase by setting the source switch in the oscilloscope to ch2 and switching from 0-180 with the switch.
27. Plug in Remote Punch Bass and check 18db boost max
28. Turn off Astron and auto power.
29. Discharge Amp
30. Mount PC-board to heat sink Red led with wire needs to be set in place properly to prevent a pinch in the wire underneath the PCB. Make sure you see no debris or old parts etc underneath PCB remove and clean.
31. Make sure thermistor in set properly in place in mehsa hole with a tap bit of thermal grease for proper heat transfer.
32. Turn Astron and auto power on.
33. Set switch to Sine/ 500Mv and set gain to 25 V (Apply 250 mv sine wave.)
34. Set 1 ohm switch to bypass (1 ohm series, a 250W one-ohm resistor placed in series with the B+ wire to the amp to limit current.)

35. Turn on loads (2-ohm Bridged)
36. Verify clean sine wave with no ringing
37. Short test channel A (Red LED D26 should turn on). Watch current meter, amp should be away from you facing the jig, if it doesn't turn amp off and protect and still draws current please turn off quickly and don't turn amp but on until you repair. Discharge but most likely the output fets will be shorted, troubleshoot protection circuit or other.
38. Turn off Auto power.
39. Turn on Auto power. (You should have output and red LED should be off).
40. Set signal switch to signal/var (Input variable amplitude sine wave.)
41. Increase volume and check for a clean and proper response until the unit clips.
42. If the coils in the transformer are loose and causes a loud peach noise place some polyurethane on transformer coils should try within two minutes. Make sure to clean the bush after using. (Electro wash)
43. Verify channel is doing rated power (at least 45v)
44. Turn output to clip and perform intermittent testing.
45. Square wave the output and check output and power supply for stability.
46. Burn in for 5 to 10 minutes
47. Switch signal back to sine wave and verify clean and proper output.
48. Turn off loads (Remove loads from outputs.)
49. Switch signal switch back to Sine/500Mv (Input 250 mv sine wave.)
50. Verify idle current is stable.
51. Turn off auto power switch
52. Observe for turn-off pop.
53. Verify that the unit and signal shuts off and there is no current draw.
54. Turn off Astron power.
55. Set 1-ohm switch back to series position (1 ohm series, a 250W one-ohm resistor placed in series with the B+ wire to the amp to limit current.)
56. .Discharge Amp.