



REPAIR/SERVICE REPORT

CSR NO.:	DATE:
Customer Name	Address:

NATURE OF PROBLEM

Problem Reported:
Overhaul required

Make: NAD	Model: 3020A	Serial No
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SERVICE DETAILS

Initial inspection and testing found both tone controls intermittent and noisy in operation, audio power on mute starting to fail with hum audible (eventually results in no output as electrolytics fail). PCB cleaned with compressed air and solvent prior to starting.

All electrolytic capacitors replaced with higher quality Nichicon audio grade components. Many were failing and out of tolerance or had failed when tested after removal. Volume, tone and balance pots desoldered from PCB, flushed clean with solvent, ultrasonically and chemically cleaned to restore internal contact surfaces, dried and track lubricated with Caig Deoxit faderlube. Input switch assembly cleaned and lubricated with Caig Deoxit D5 contact treatment. RCA sockets all resoldered as these often suffer from failing solder joints caused by repeated plugging in of connectors. PCB closely inspected under magnification for any other issues and several poor joints resoldered. Speaker binding posts installed on rear panel which can be used either with 4mm banana plugs or wires on screw terminals.

Frequency response measured and exceeds original spec (15Hz to 40Khz -3dB). Quiescent bias measured on both channels after a 30 minute warm up and within NAD specification. Phono stage driven with test tone and RIAA response within spec. Noise on both channels less than 1mV as measured on distortion analyzer and harmonic distortion also meets spec for both channels measured at less than 0.006% for 30W out at 1Khz. Power tested into load and output stable and clean and maximum power of 36W obtained per channel into 8 ohm load prior to clipping (measured at THD 1% point), both channels driven with tone at 1Khz. All inputs fed with test tone and selectors switching cleanly and all controls operating quietly. 6 hour test into speaker using all inputs with no further anomalies observed.

INVOICING/PAYMENT

Fixed price overhaul	- £
Replace all electrolytics	- £
Upgraded speaker binding posts	- £

Total - £ Invoiced via Paypal

All work carried out guaranteed for 3 months from date of receipt following repair (covers parts/labour only)