



REPAIR/SERVICE REPORT

CSR NO.	DATE:
Customer Name	Address:

NATURE OF PROBLEM

Problem Reported:
Faulty phono stage in MC setting

Make: Mission	Model: Cyrus Two	Serial No.
----------------------	-------------------------	-------------------

SERVICE DETAILS

F4A Fuses inserted to permit testing with internal power supply. Output on both channels obtained with occasional intermittent output and confirmed one channel not working using the MC phono input. Also found any input to tape right was appearing at all settings of selector switch for CD and Tuner inputs.

Input and record selector switch assemblies desoldered from PCB and silver plated contact surfaces found to be fairly sulphated when dismantled. Silver plate chemically cleaned, polished and gold electroplated (~ 2 microns) with a coating of Caig Deoxit Gold contact treatment finally applied to deter any future degradation and wear. Volume potentiometer removed from PCB, flushed clean in a solvent bath, chemically cleaned and track lubricated with 100% Caig Deoxit Faderlube to deter any future noise. MM/MC switch replaced as intermittent. All electrolytic capacitors replaced with Nichicon audio grade replacements and several were found to be failing when tested after removal. Main PSU capacitors tested and measured as new for capacitance/ESR (though not used with a PSX so no need to replace as out of circuit). All bipolar electrolytics bypassed with Wima film capacitors as per original Cyrus Signature edition specification. All RCA sockets replaced with gold plated components and PCB thoroughly inspected for any dry joints under magnification. Phono fault caused by damaged PCB tracks and the tape input appearing across all inputs due to microscopic solder bridge found on PCB (evidence of a past repair).

Unit powered and dc offset on both channels measured at <10mV (spec ±50mV), Frequency response measured and exceeds original spec of 1Hz to 50Khz -3dB. Quiescent bias measured on both channels and reset to within the 8-20mV range as per Cyrus spec after 30 minutes warm up. Phono stage driven with test tone and RIAA response within spec for MM and MC inputs. Power tested into 8 ohm load – 50W obtained per channel prior to clipping with both channels driven with tone at 1Khz. All inputs fed with test tone and selector switching cleanly between all and volume control quiet in operation. 6 hour successful test into speaker using all inputs with no further anomalies observed.

Fuses removed to restore to PSX configuration.

INVOICING/PAYMENT

Basic Fixed Price Repair/ Servicing
 All Electrolytics (less main PSU caps)
 Replace RCA Sockets (Gold Plated)
 Record Switch overhaul + gold plate
 Bypass Caps for Bipolar
Total £ Invoiced - All work carried out and parts used guaranteed for 3 months.