Servicing the Philips CD104 CD Player

Wilke Leach

The Philips CD101 compact disc player has been around in various guises since the mod-hightes. Amstract for comple used the rosse machine in some midi systems while Mission part it in a smarrer looking box. In addition to machines that crone into the workshop with specific faults, some can come in because they have been portexchanged for a more recent model and require certain checks and adjustments to ensure reliable operation become being resold. The purpose of the following noise is to provide guidance on basic servicing and some of the fault conditions likely to be encountered.

Layout

One excellent feature of these machines is the general design and layout. There are various PCBs that are delseparate and pleggable. This can help when there's an awkward fruit since it's easy to intercange boards with those in a weeking attachine. As I've said on previous occusions, we're all allowed to eneut occasionally. In this connection it's puriscularly helpful that each board does ... specific job, e.g. power supply, decoder, serve, tray control, laser preamplifier etc. In contrast most modern muchines have just about everything mounted on a single which thouse SECTION AND VALUE OF sacrasco-moundeel interconnected by very fine print. Thus if you have amittee experience of CD pluyers the CDIPA is an ideal machine to proclice on - provided you get up on the Philips singlebeam laser and tracking system that's used instead of the usual Japanese three-beam laser with sled drave.

Fig. I shows a basic block diagram of the CD104 It illustrates the way in which the various functions are split up between the boards. It's worth noting at this point that the form and radial recognitions are both incorporated within the laser assembly.

The birst thing you see when you remove the top cover is the serve beard. It can be binged up after removal of the two lock ten screws to give easy access to the decoder board beneath. To gain access to the component side of the decoder board and the aser presumption board the bottom cover has to be removed. The dray control PCB is mounted alongside the serve board at the top of the machine while the control/display board is on the front panel. Fig. 2 shows the PCB begans.

You can run the machine on its side when both Inding. I don't recommend this however us it's all too easy to press the openiclose faction by mistake and join the disc in the carriage mechanism. If it happens to be a Philips test disc you say goodbye to £35 straight away.

Circuitry and Abbreviations

Before delving into pursuant sections of the machine it's worthwhile lamitarising yearself with the terms and abbreviations that Philips use. This belps you to understand what's going on between the various chars, particularly those in the decoder section. These terms may seem to be of Little consequence at the moment if you don't have a circuit diagram to bands if you do have a circuit take a quick look at it and pick out some of the terms listed before.

Basically coefs thip has a particular function and name.

For example the decoder PCB has on it a demodulator (DEMOD) chip, an experience (ERCO) chip, as interpolation (encealment, afterpolation and muting converter (concealment, afterpolation and muting converter (DAC) chips. Each chip has in "spenk" to others, and in most cases each data line has its own abbreviation. Thus the data line from the demodulator to the entition conjection chip is called the DADE signal line it stands for Data from Demodulator to Error correction chip is called the part to routine fault finding are listed below. You may find this list of help when you take a look of the circuit degram for the first time. Since it's difficult to print inversion hers, where relevant we'll proceede the abbreviation with a slash (*).

ACLIDE - clock from DEMOD to ERCO chip.
ACLEC - clock from ERCO to CIM chip.
CLOX - clock output from the CIM chip (system clock)
DADE - data from the DEMOD to the ERCO chip.
DEEMPH - de-empossis
DLOF - data (teh) from the CIM to the FIL chip.
DROF - data (right) from the CIM to the FIL chip.
FSDE - frame sync from the DEMOD to the ERCO chip.
FSEC = frame sync from the DEMOD to the CIM chip.
FSEC = frame sync from the DEMOD one CIM chip.
FIFD - h f detector for demodulator.
MCES - motor control from the ERCO to the SERVO chip (translable motor).
AMUTE - imple signal.
UNLIC - unreliable data flag from the ERCO to the CIM

These lines are generally easy to find on the various panels - in most cases you can go to one p.n or a particular other.

The Laser Unit

The laser unit used in these players is pretty reliable. Some years back when I was at Servecope we had to seplace some of them but on the whole not many. In recent times they we proved to be very good, unlike the latter type used in the CDINU160 series machines. Tolerances may claring with age however, and the laser supply should be checked in every machine that comes into the workshop. It's possibly a good idea to adjust the laser supply only when you are sure that it's wrong or even got at by a howelfer. If the machine is not spinning the disc for example or has some other leads, my to explore all other possibilities first or you onest end up with two faults material of one. I usually check the laser supply once the most birds is basing a working.

The official, accurate way of checking adjusting the laser supply, had down in the Philips service manual, is as sufficient the Philips test disc no. 5, part no. 4822-397-36196 (the disc without defects). Connect a d.c. volumeter across R3308 on the service PCB or between the entire of transister 6239 and the earth line. Play track one and adjust R3180 for a voltage reading of \$75 NV ±75mV.

That's fine if you have a Platips test disc. But many workshops don't. So we need to find a reasonably accurate

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Kathleen Armour

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