RCD1.2D DISC DRIVE - service hint

Service hint to detect a bad disc drive.
SYMPTOM: One of the following complaint descriptions:
- no function, does not start
- plays badly
- skips tracks
- very shock sensitive

General observation by investigation : HF-signal too small (compared to value: 800 mVpp)

CAUSE: Possible caused by mechanical x/y-fixation of the diode array on the optical pick-up unit has drifted.
Attention: The laser control of the RCD1.2D disc drive is located on the optical pick-up unit. The laser current has been adjusted in the production line and is n o t intended to be varied for service purposes.
If the HF-signal is detected considerably smaller than 800 mVpp, check first as follows:
Play a disc. Turn the FOCUS OFFSET potmeter and observe the HF-signal:
- If the HF-signal decreases in both directions, the x/y-adjustment of the diode array can be considered to be o.k.
- If the HF-signal increases in one direction, adjust to max. HF and check the FOCUS OFFSET voltage:

FOCUS OFFSET <+/-100mV this means: x/y-adjustment of diode array is within tolerance.
Conclusion: If above described results are detected, the reason for too small HF-signal might be a "dying" laser diode or any other fault in the electronic circuit. In case of dying laser diode the optical pick-up unit (4822 691 30327) has to be exchanged.
FOCUS OFFSET > +/-100mV this means: x/y-adjustment of diode array has drifted and is out of tolerance
Conclusion: In this case the optical pick-up unit has to be exchanged by a new one (4822 691 30327).

REMARKS: On the service information of concerning typenumber the drawing with the mechanical instruction how to exchange the optical pick-up unit has been shown. After replacement of the optical pick-up unit the mentioned electrical adjustments in the service manual have to be carried out. This publication will be followed by a service information of each model/typenumber.