

FAX TRANSMISSION

93889-93954

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To: Earl Chang / GARY Hendrickson
FCC

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Date: Aug 18 1999 Total ⁷ pages

Resend on 23 Aug

Subject: NR150 PLL Circuit

Dear Earl,

Per our telephone conversation today, please find attached circuit diagrams and circuit layout for the NR150 CB radio.

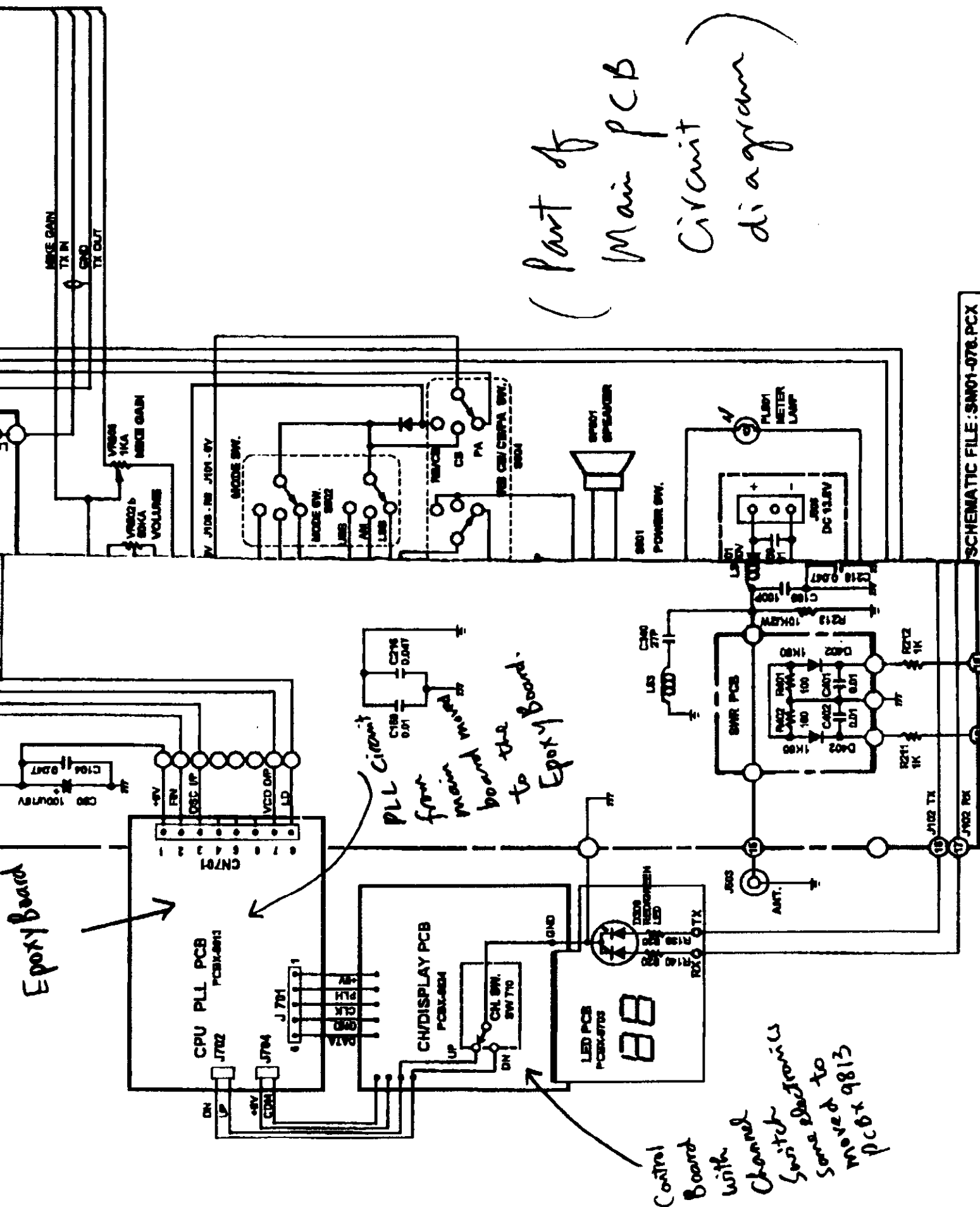
Again, this radio used some common parts as models in European and other countries, but for the NR150, the PLL and CPU frequency control circuit were all contained in a PCB dipped into epoxy to ensure circuit integrity. The program in the CPU would only generate 40 channels for use in the USA.

Please note that we used common PCBs for CH/Display PCB (where the CPU and the channel control logic were originally located) and the Main PCB (where the PLL was originally located), and the original component locations and holes for those circuits are not populated with components. Please note that the size of the component for CPU/PLL are different for those in the epoxy board and could not be re-deployed into the tracks/holes on the original PCBs in any way.

If you have any further question, please feel free to call me at any time.

With Best Regards
Y O Leung





(Part of Main PCB Circuit diagram)

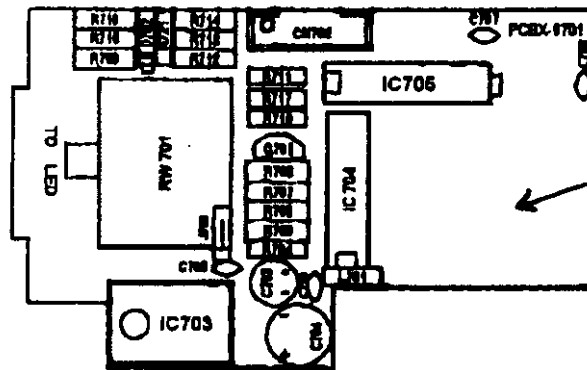
SCHEMATIC FILE: SMO1-070.PCX

NR150 CB MOBILE TRANSCEIVER

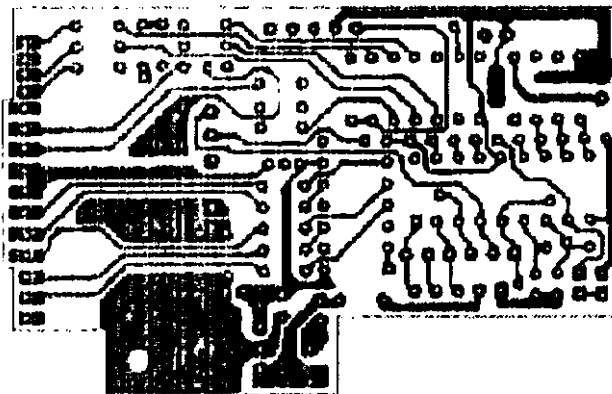
DISPLAY DRIVER BOARD ASSEMBLY PCB-02

DATE: 15-1-99

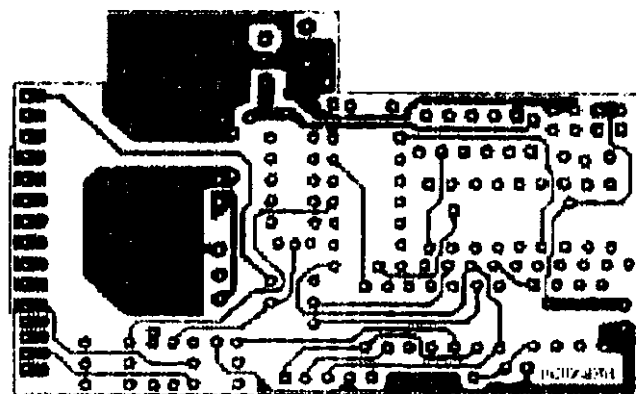
TOP SIDE COMPONENT LOCATION



TOP SIDE PCB CIRCUIT LAYOUT



BOTTOM SIDE PCB CIRCUIT LAYOUT



PARTS ALLOCATION

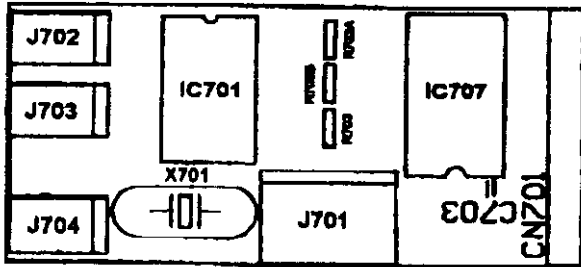
<u>Ref. No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Description</u>
C703	E. Cap 10uF/16V	R712	TJ 180
C704	E. Cap 220uF/16V	R713	TJ 180
C705	Cer Multilayer 0.1uF/50V	R714	TJ 180
C706	Cer Multilayer 0.1uF/50V	R715	TJ 180
C707	Cer Multilayer 0.1uF/50V	R716	TJ 180
IC703	LM7805	JP701	Jumper Wire 2.5mm
IC704	74HC164N	JP702	Jumper Wire 2.5mm
IC705	74HC164N	JP703	Jumper Wire 5mm
Q701	STS8013H	P701	Connector 5 Poles
L701	Inductor 1mH	P702	Connector 2 Poles
R704	TJ 180	P704	Connector 2 Poles
R705	TJ 180	SW701	Pulse Sw. for CH.
R706	TJ 180	PCB02	PCBX-9701
R707	TJ 180		
R708	TJ 100		
R709	TJ 180		
R710	TJ 180		
R711	TJ 180		

NR150 CB MOBILE TRANSCEIVER

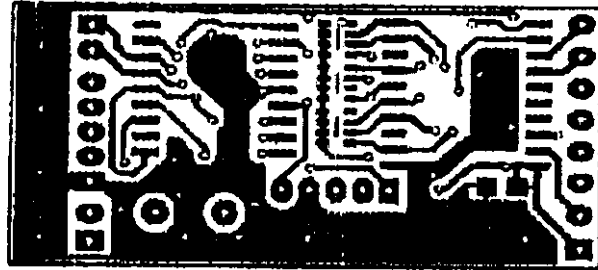
CPU/PLL CIRCUIT BOARD ASSEMBLY PCB-07

DATE: 15-1-99

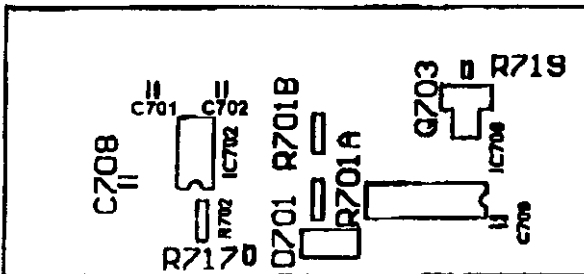
TOP SIDE COMPONENT LOCATION



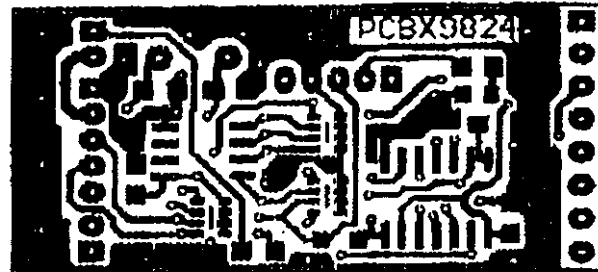
TOP SIDE PCB CIRCUIT LAYOUT



BOTTOM SIDE COMPONENT LOCATION



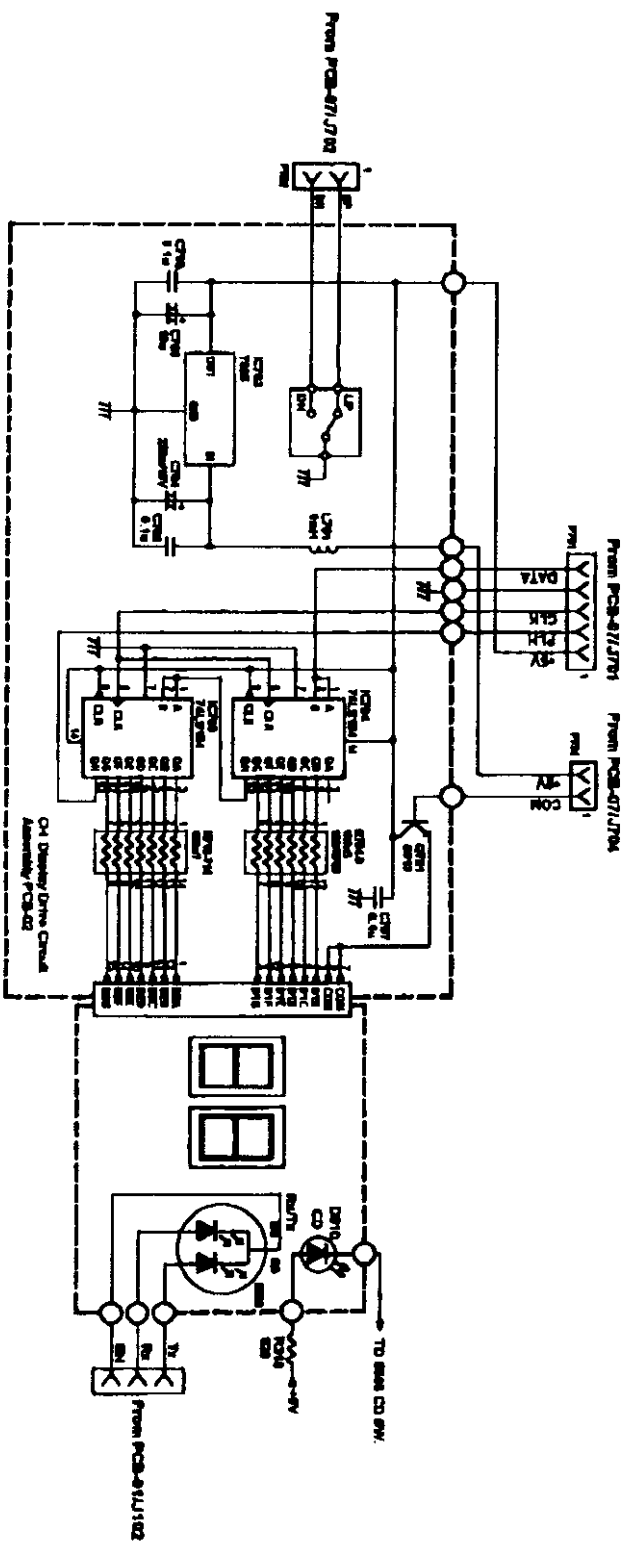
BOTTOM SIDE PCB CIRCUIT LAYOUT



PARTS ALLOCATION

Ref. No.	Description
C701	Chip Cer Cap CG47PF
C702	Chip Cer Cap CG47PF
C703	Chip Cer Cap Y5V 0.1uF
C708	Chip Cer Cap Y5V 0.1uF
C709	Chip Cer Cap Y5V 0.1uF
Q703	Chip Transistor KTC3878Y
D701	DIODE 1N4148
IC701	Z88E04
IC702	HT93LC46-A
IC706	MC74HC164
IC707	MC145106
CN701	Connector Wafer 8 Pins
J701	Connector Header R/A 5 Pins
J702	Connector Header R/A 2 Pins
J703	Connector Header R/A 2 Pins
J704	Connector Header R/A 2 Pins
R701A	Chip Net Res. 5.1K
R701B	Chip Net Res. 5.1K
R702	Chip Net Res. 10K
R703A	Chip Net Res. 5.1K
R703B	Chip Net Res. 5.1K
R703C	Chip Net Res. 5.1K
R717	Chip Res. 5.1K
R719	Chip Res. 10K
X701	Crystal 8.00 MHz
PCB07	BARE Board PCBX-9824

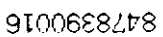
PCB-02 CH. Switch/Display Drive Assembly

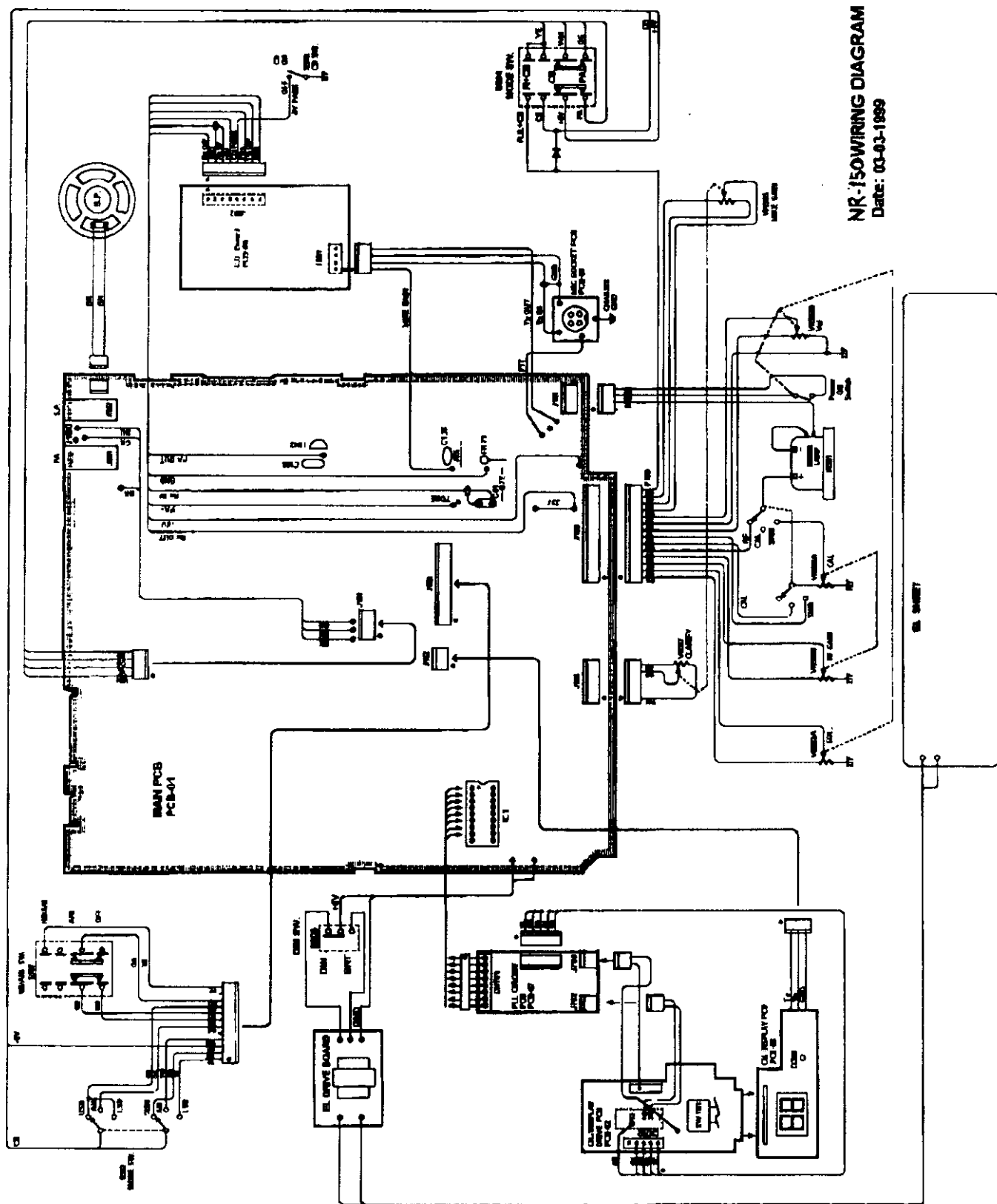


Remark: PCB-07 = PLL Circuit Assembly
PCB-01 = Main Board Assembly

N/A PCB-04 SW/Display Drive Assembly PCB-02		
File: 8478390016.PCX		
Date: 20-1-1999		
DWG BY: TC		

FILE NO. 702 08/23





NR-150 WIRING DIAGRAM
Date: 03-01-1989