

AUDIO OUTPUT

EYEH.& BER DETECTOR

NICAM DECODER

QPSK DEMODULATOR

The schematic diagram illustrates the internal connections of a mainboard, organized into four functional blocks: Audio Output, Eye & BER Detector, NICAM Decoder, and QPSK Demodulator.

- Audio Output:** Features connectors for AUDIO B (PIN 3, 2, 1) and AUDIO A (PIN 1, 2, 3). It includes a power supply section with XF 1 (GND), XF 6 (-12V), XF 5 (-15V), XF 3 (+12V), and XF 2 (+5V). The audio signal path involves U3XA and U3XC chips, with outputs for SOUND B and SOUND A. Various capacitors (C1-C8) and inductors (L1-L3) are used for filtering and impedance matching.
- Eye & BER Detector:** Utilizes U4XA and U4XC chips. It receives DATA and CLK signals from the NICAM decoder and provides I-SIGNAL, Q-SIGNAL, and CIB2 D/M outputs. It also includes a WSBD input and several capacitors (C9-C18) for signal conditioning.
- NICAM Decoder:** Employs U5XA and U5XC chips. It interfaces with external signals (EXT.CLK, EXT.DATA) and provides TXD, RXD, CLOCK, SX, and SCLK outputs. It also handles CLBD, DABD, and WSBD signals. Capacitors C19-C28 are used for decoupling and timing.
- QPSK Demodulator:** Uses U6XA and U6XC chips. It receives IF INPUT and INTERCARRIER INPUT signals and provides I OUT and Q OUT outputs. It also handles a CLOCK signal and provides SDA and SCL outputs. Capacitors C29-C40 are used for signal processing and timing.

The diagram also shows a power supply section with L7, L8, and L9 inductors, and a connector for I-SIGNAL and Q-SIGNAL. A small component list at the bottom right specifies the values for various capacitors and inductors.

ALL CAPASITORS: 4N7

FIRST USED IN: PM5688/U2
PCB REF.: 4008 117 8458

A	.SCM	MAINBOARD	4008 109 7067	.1	88-10-03
70672	.SCM			.1	88-10-07
ABCK	.PCB			.1	88-11-15
84581	.PCB			.2	88-12-19
NAME	BBN/SM	1	SH	SH	- 130 - 1
KF	PTV LAB	PEI BOX1818	DK-2300	COPENHAGEN 5	DAT 88-09-28 A3L