

AWA RT85 & Midland 70-066 Conversion To 6 Meters

Ver 1.4 – 25 Jan 2009

Part 3

Rod McCosker VK2DOT

AWA RT85 & Midland 70-066 low Band Conversion to 6 Meters:

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Part 1:

Acknowledgment:

Modifications:

Parts Needed:

Test Equipment needed.

Information about AWA RT-85.

Information about Midland 70-066

6 Meter AWA RT85 & Midland 70-066 FM Frequencies – 62 channel EPROM.

6 Meter AWA RT85 FM Frequencies – 10 channel EPROM.

6 Meter AWA RT85 & Midland FM Frequencies – Rx only for F calls & non licensed amateurs.

Using the Club's De-soldering Station.

Midland Models:

EPROM Software:

Part 2:

The RT-85 Transceiver – Theory of operation.

The Synthesizer Board including EPROM board.

The Synthesizer Board.

Synthesizer Alignment.

Receiver RF Front end.

The Receiver Board:

Receiver Alignment.

The Transmitter PA board.

Transmitter Alignment.

AWA RT85 Receiver Board Top Assembly View

AWA RT85 Receiver Board Bottom Capacitor View:

Part 3:

The RT-85 Transceiver – Block Diagram

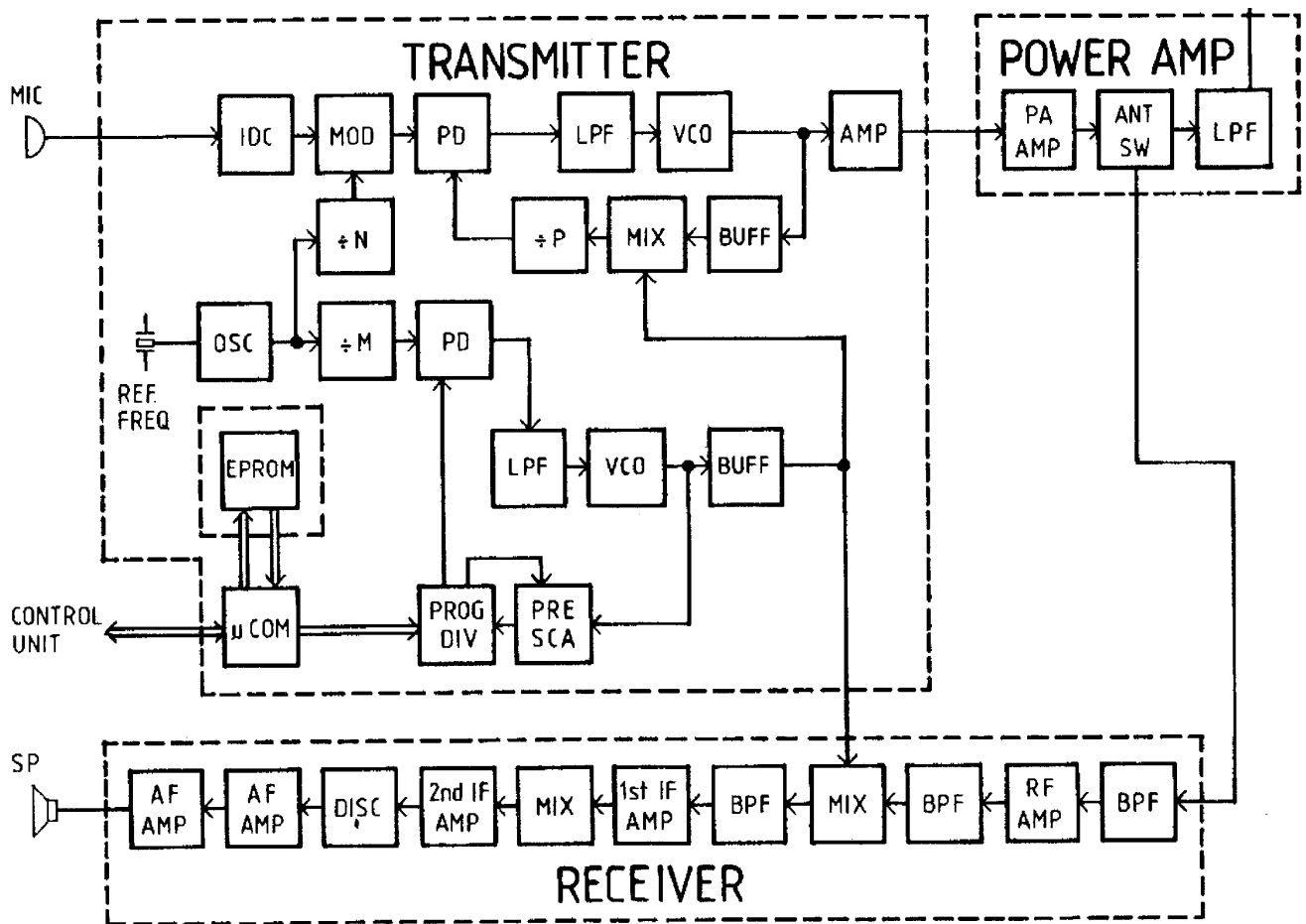
Receiver Circuit.

Receiver RF Front End Circuit:

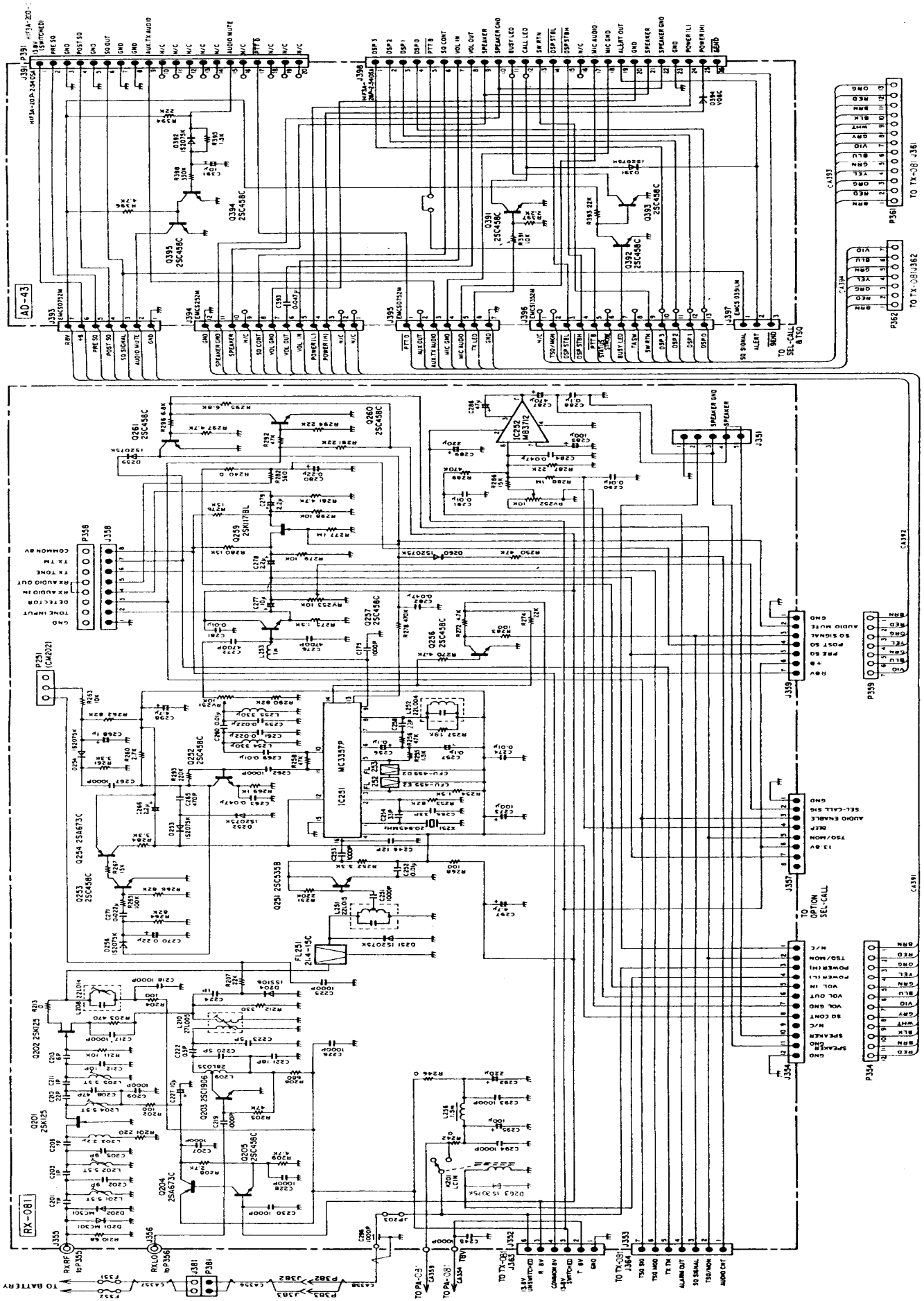
Transmitter Circuit.

PA Transmitter Circuit:

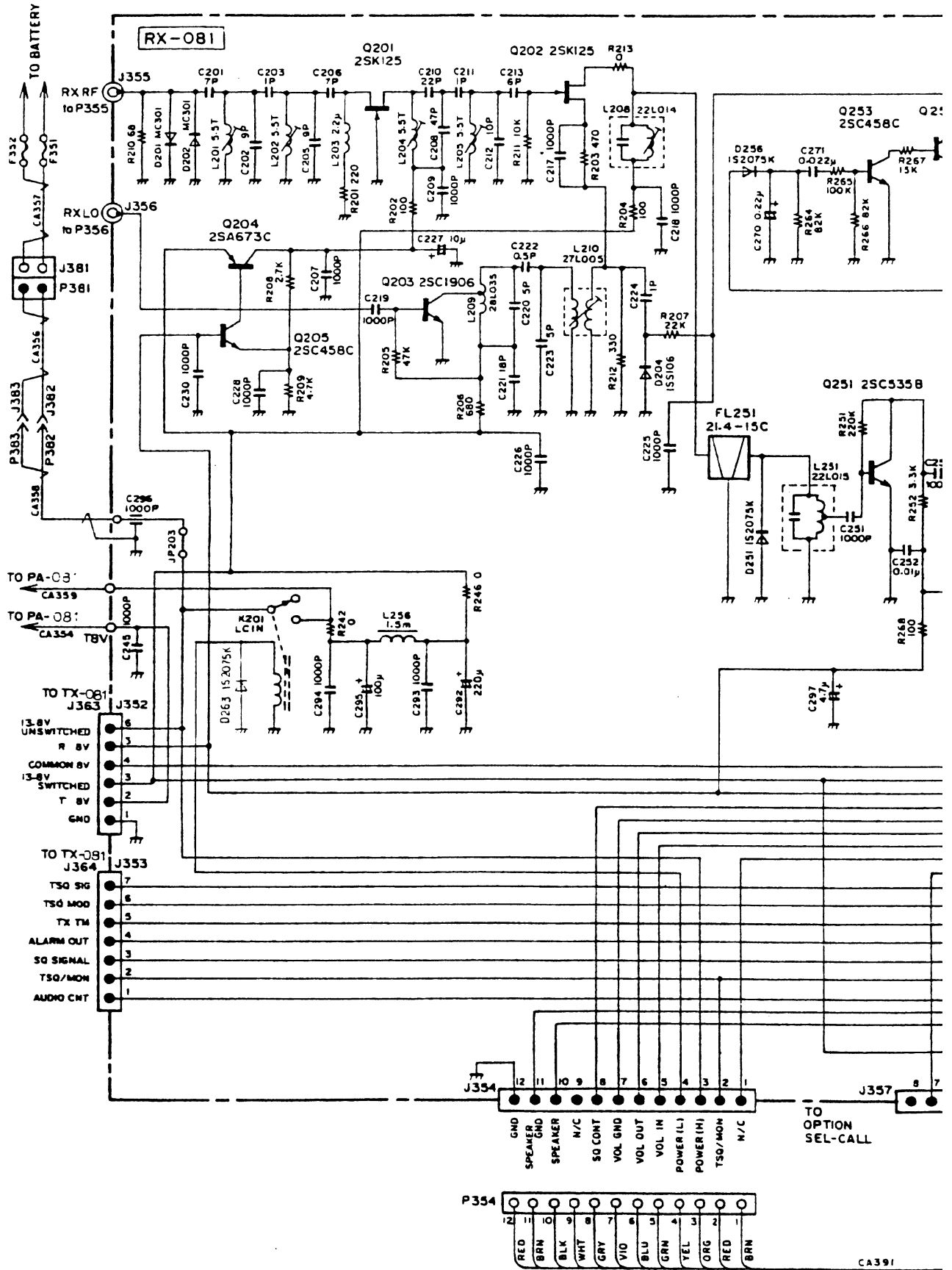
The AWA RT-85 Transceiver: - Theory of Operation.



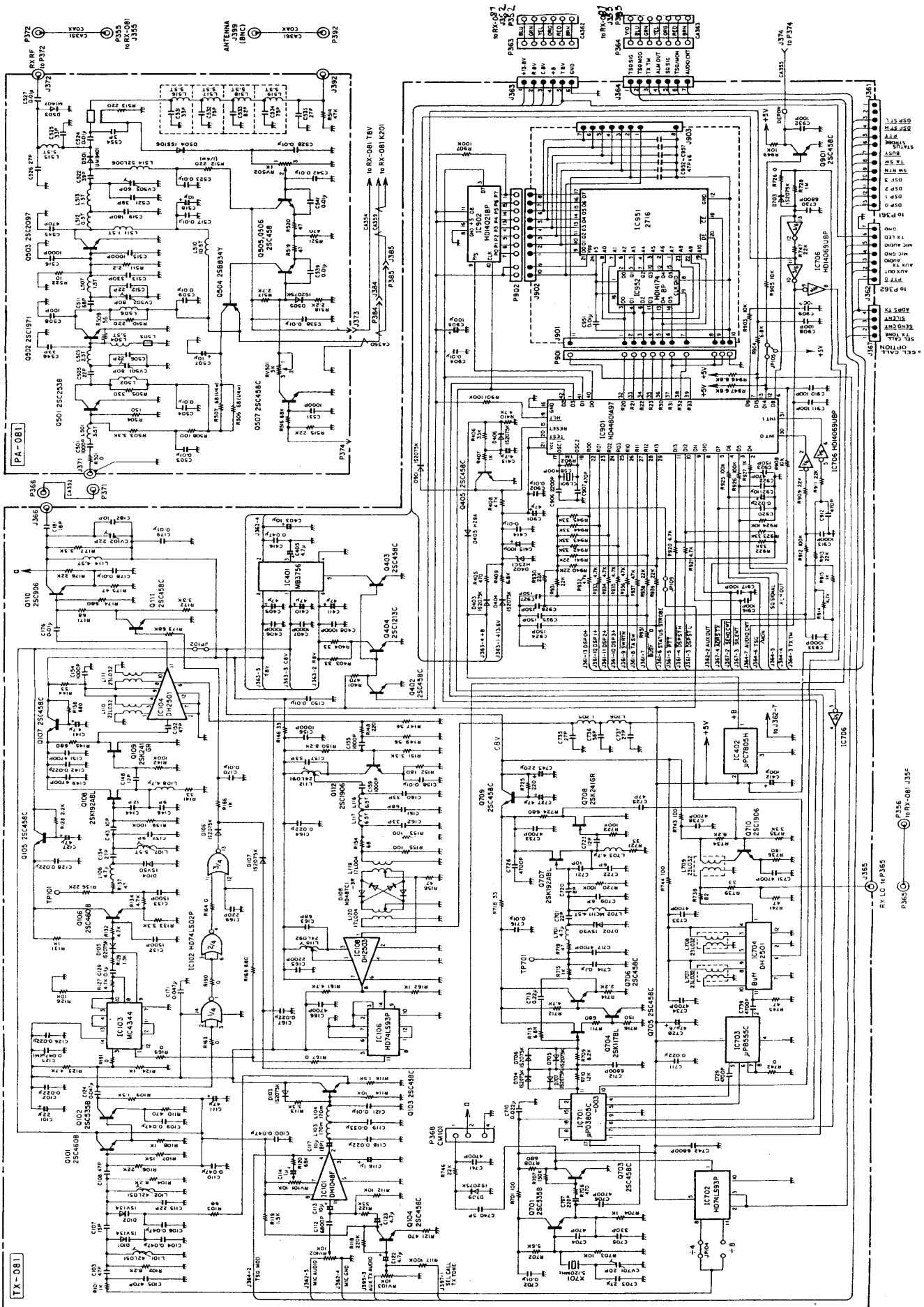
The Receiver Circuit:



Receiver RF Front End Circuit:



Transmitter Circuit:



PA Transmitter Circuit:

