

7654 TR-6182-7m
0102

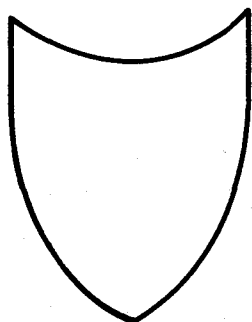
SOUTH AFRICAN DEFENCE FORCE

SUID - AFRIKAANSE WEERMAG

RS - B25 - SA

TECHNICAL MANUAL

TEGNIJSE HANDBOEK



THOMSON-CSF

SHEET INDEX

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1-1 to 1-9	original				
2-1 to 2-8	original				
3-1 to 3-6	original				
4-1 to 4-96	original				
5-1 to 5-24	original				
6-1 to 6-145	original				
7-1 to 7-33b	plates original				
8-1 to 8-175	original				

SECTION SEVEN

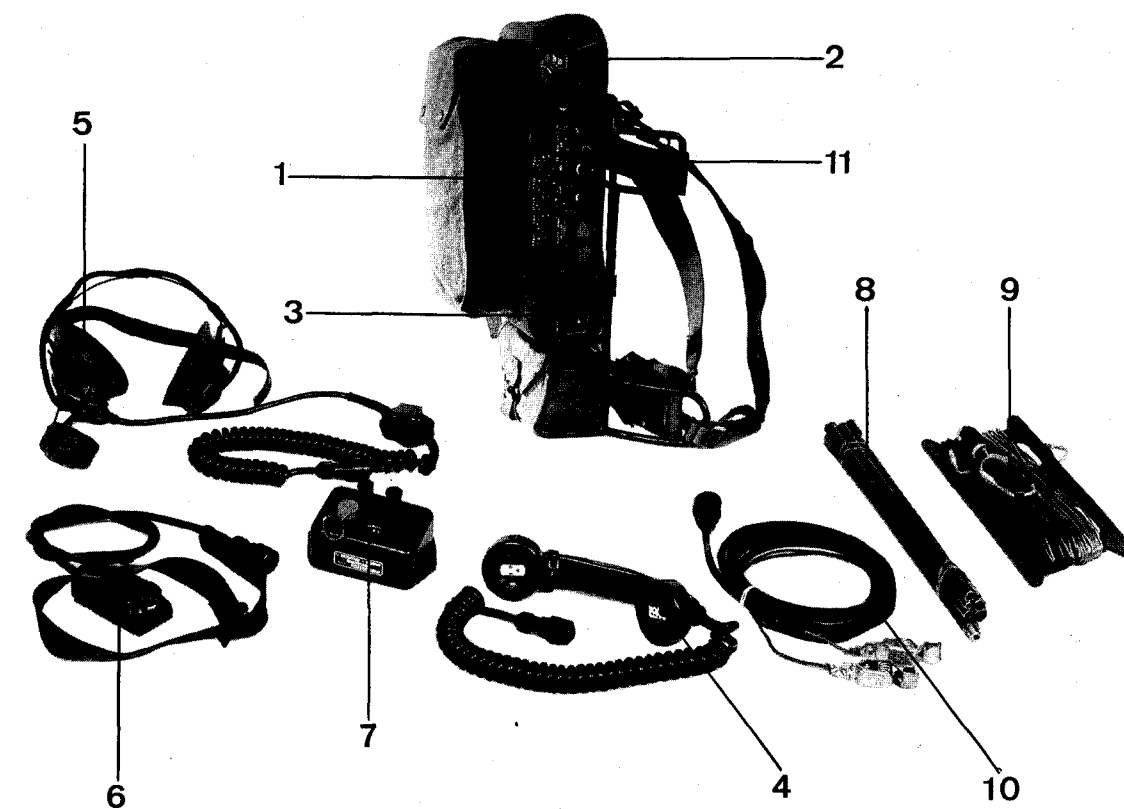
CIRCUITS AND BLOCK DIAGRAMS

MAN-PACK TRANSCEIVER

RS - B25 - SA

VIEW OF COMPLETE INSTALLATION

(A and B VERSION)



MAN-PACK TRANSCEIVER

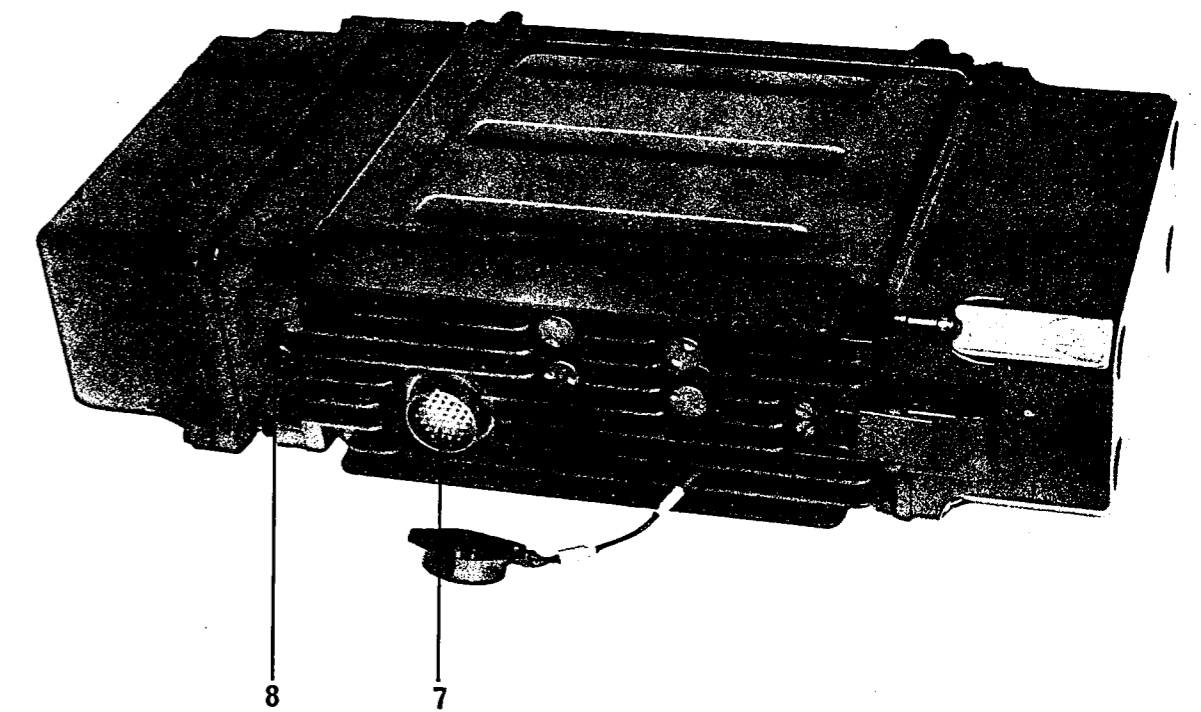
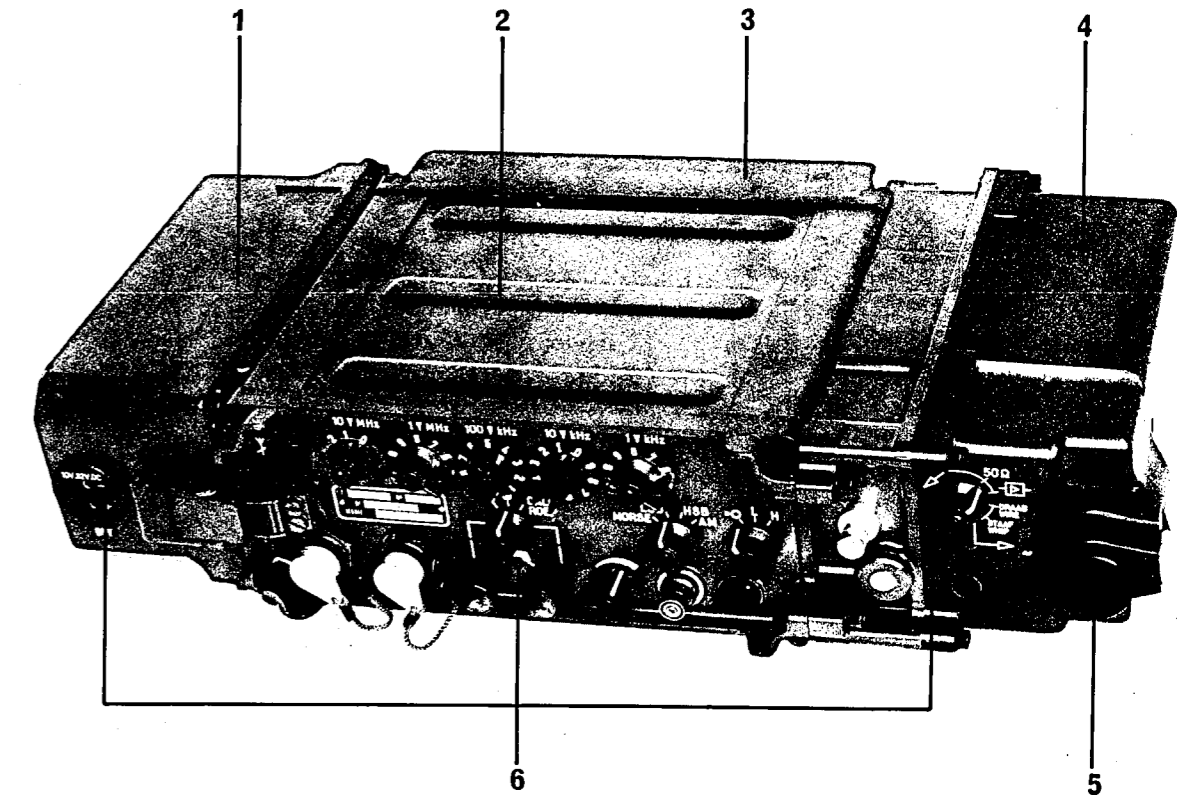
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COMPOSITION OF TRANSCEIVER SYSTEM

(A and B VERSION)

KEY

- 1 Battery Unit
- 2 Basic unit.
- 3 20 W Amplifier
- 4 Antenna Tuning Unit
- 5 Device Connecting the Antenna to the Antenna Tuning Unit
- 6 Front Panels (Engraved)
- 7 Vehicle Version Adapter Connector
- 8 Valve Connector (Dessicant cell)

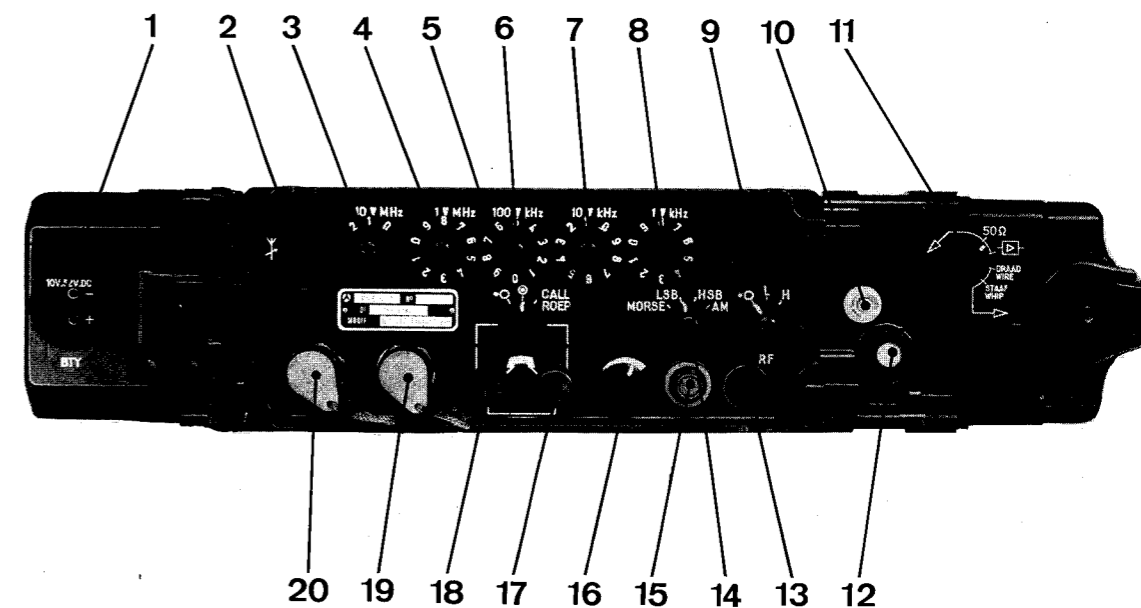


MAN-PACK TRANSCEIVER

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VIEW OF FRONT PANEL DESCRIPTION

(A and B VERSION)



MAN-PACK TRANSCEIVER

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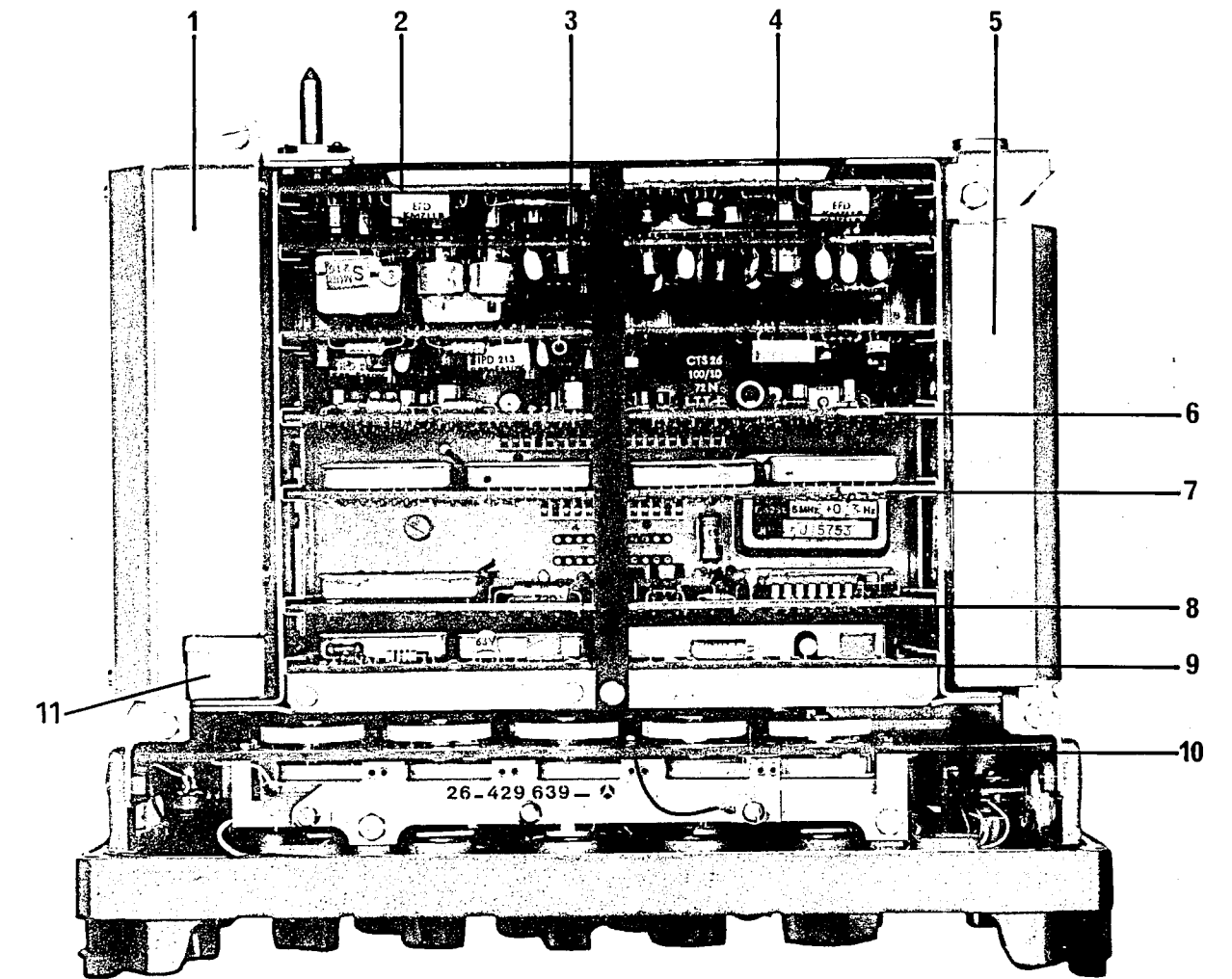
BREAKDOWN OF THE TRANSCEIVER

BASIC UNIT

(A and B VERSION)

KEY

- 1 HF Head Unit
- 2 Peripheral Circuits Board
- 3 Filter and 2.5 MHz Filter Circuit Board
- 4 Exciter Board
- 5 Converter Unit
- 6 AF Board
- 7 Synthesizer Board No. 3
- 8 Synthesizer Board No. 2
- 9 Synthesizer Board No. 1
- 10 Setting Board.
- 11 102,5 MHz Cristal filter

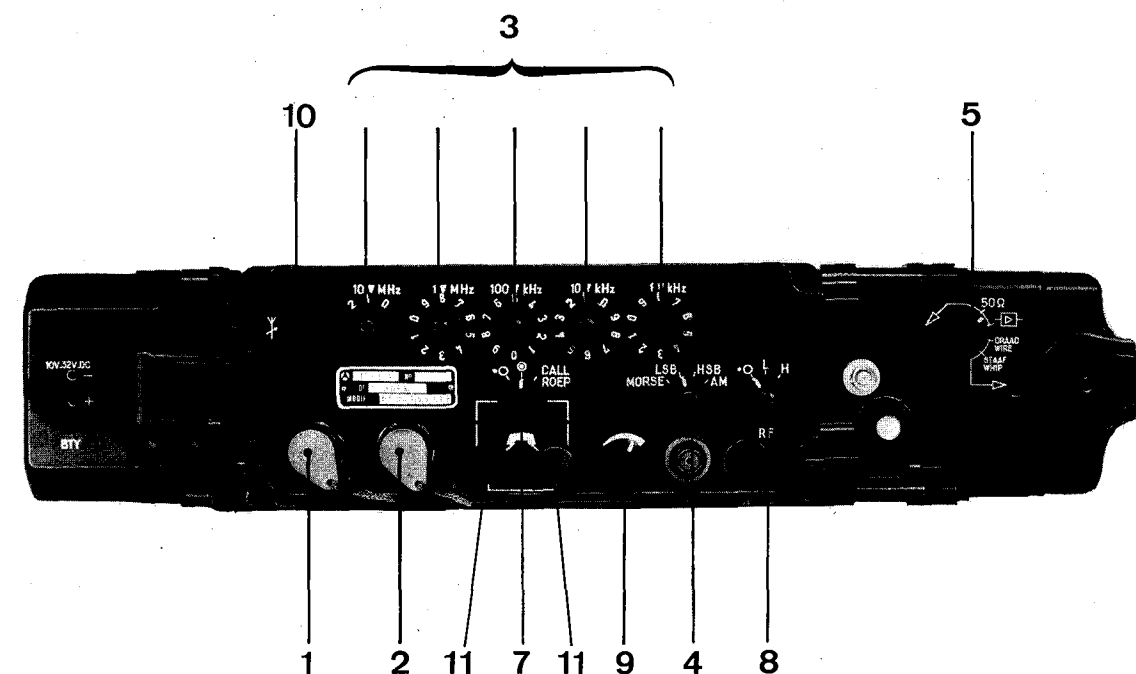


MAN-PACK TRANSCEIVER

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VIEW OF FRONT PANEL (OPERATION)

(A and B VERSION)

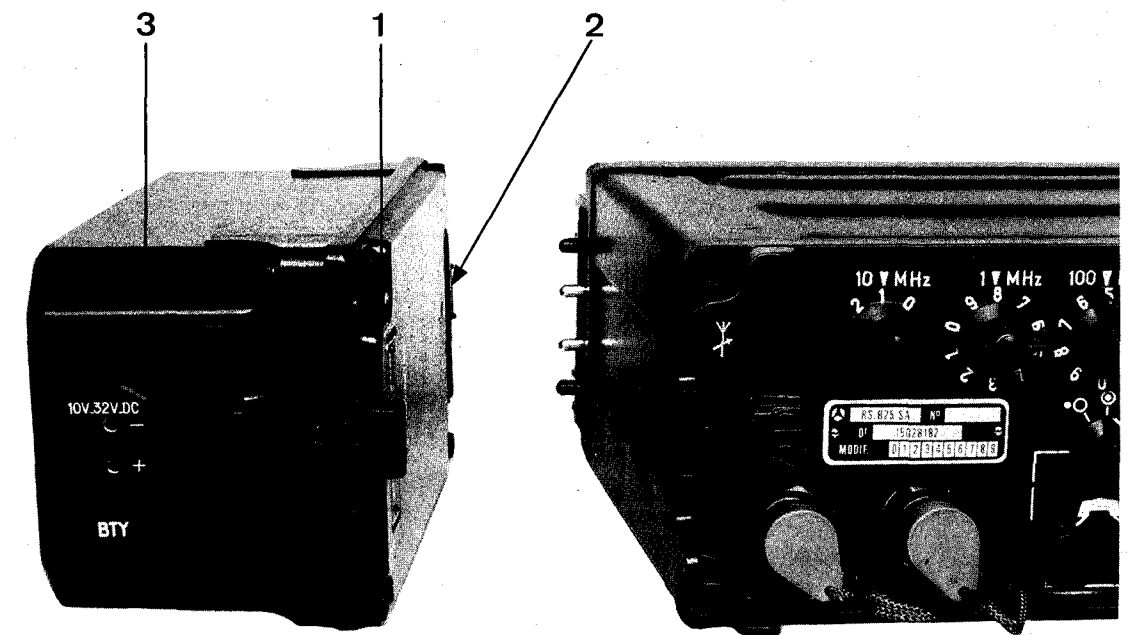


MAN-PACK TRANSCEIVER

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STANDARD EXCHANGE OF BATTERY UNIT

(A and B VERSION)



TRANSCEIVER

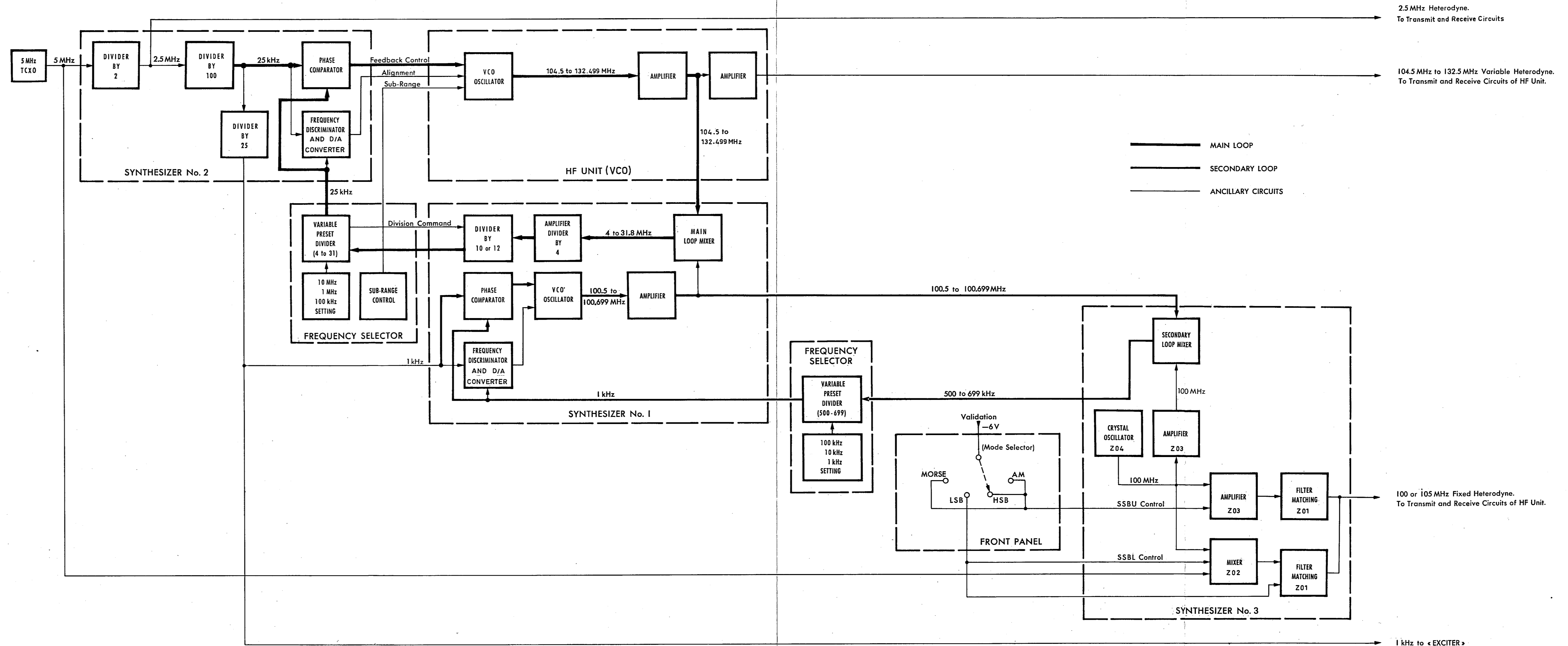
MAN-PACK

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Synthesizer

Block Diagram

(A and B VERSION)



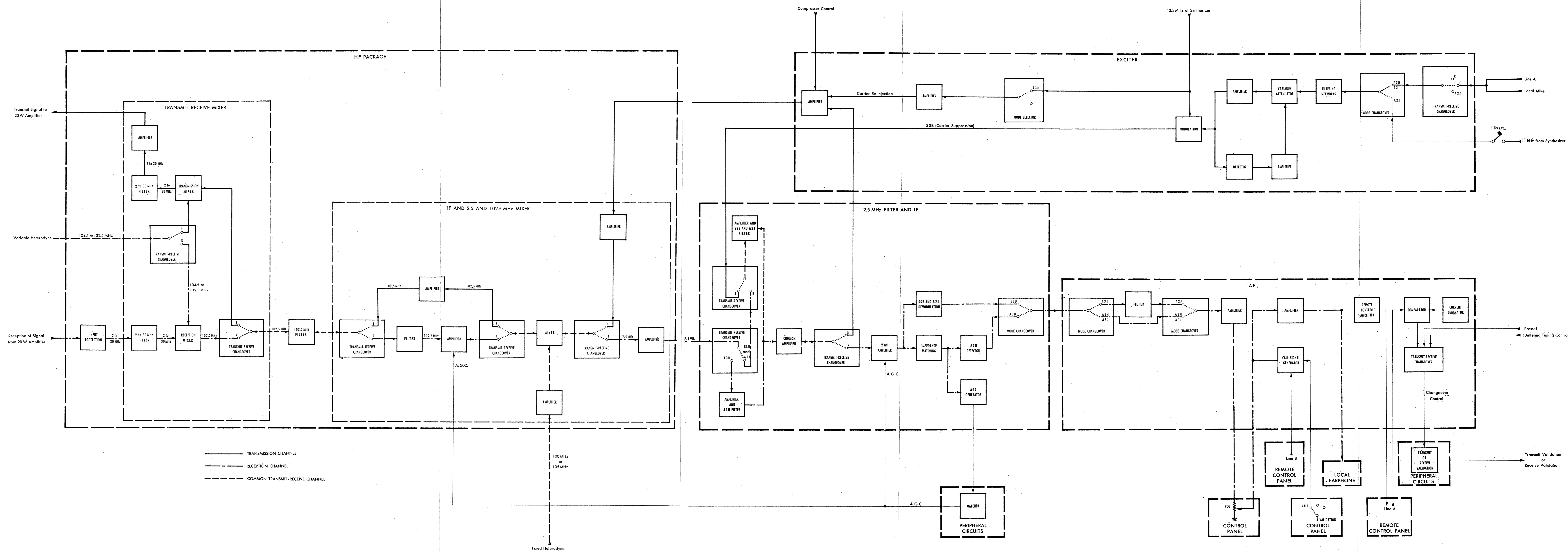
TRANSCEIVER MAN-PACK

RS-B25-SA

Transmission - Reception Channels

Block Diagram

(A and B VERSION)



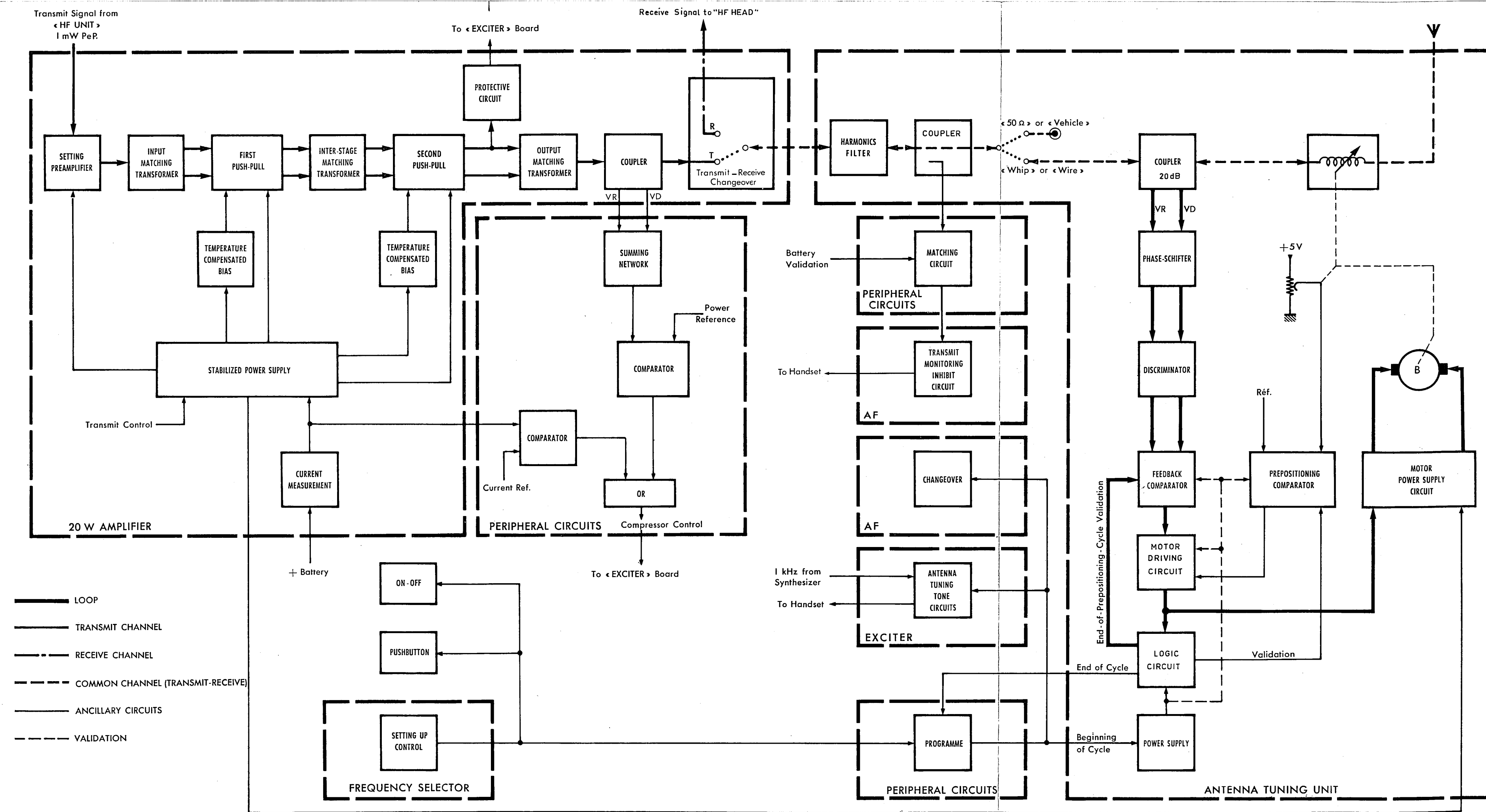
TRANSCEIVER MAN-PACK

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20 W Amplifier - Antenna Tuning Unit

Block Diagram

(A and B VERSION)

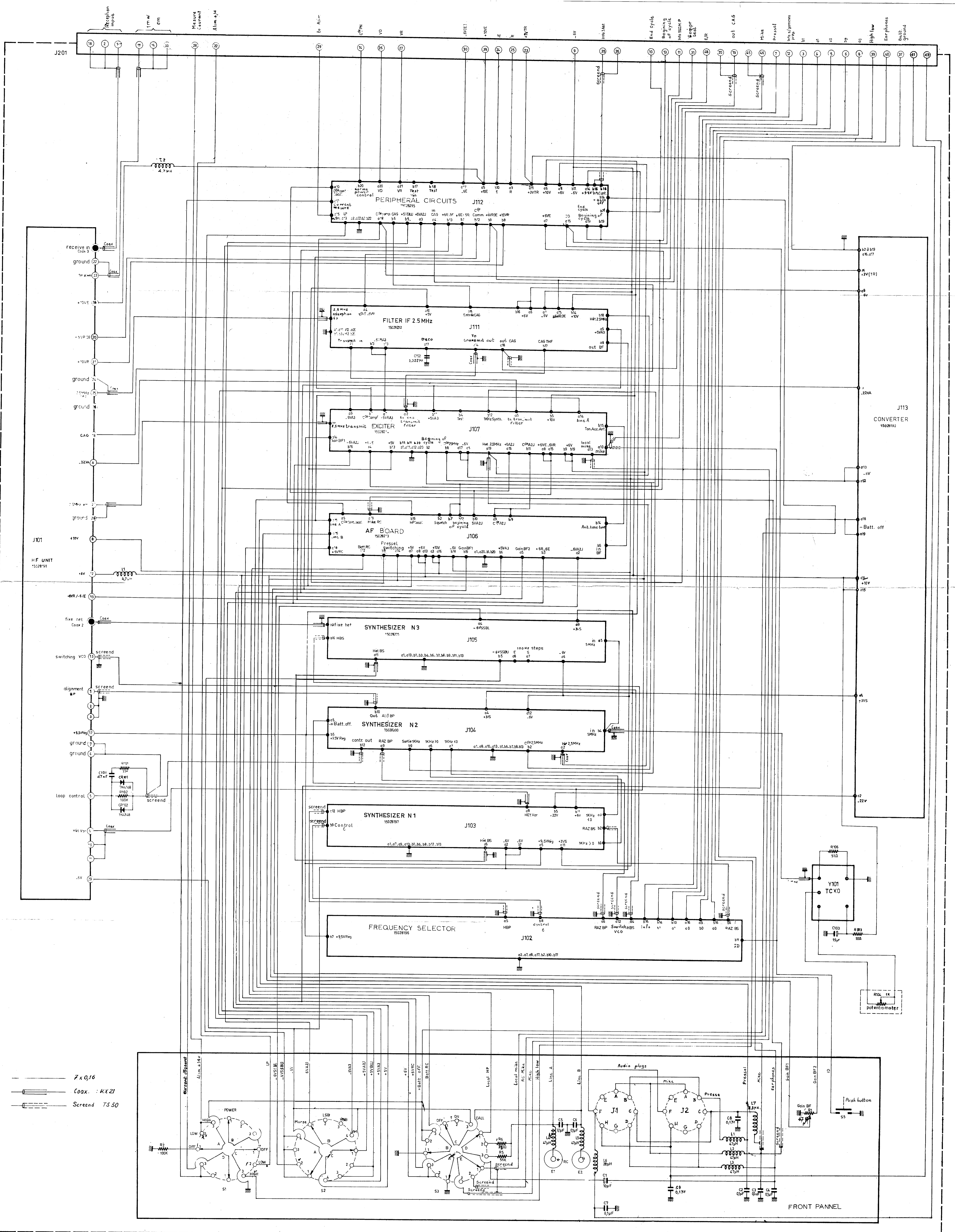


MAN-PACK TRANSCEIVER

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GENERAL INTERCONNECTION DIAGRAM

(A and B VERSION)



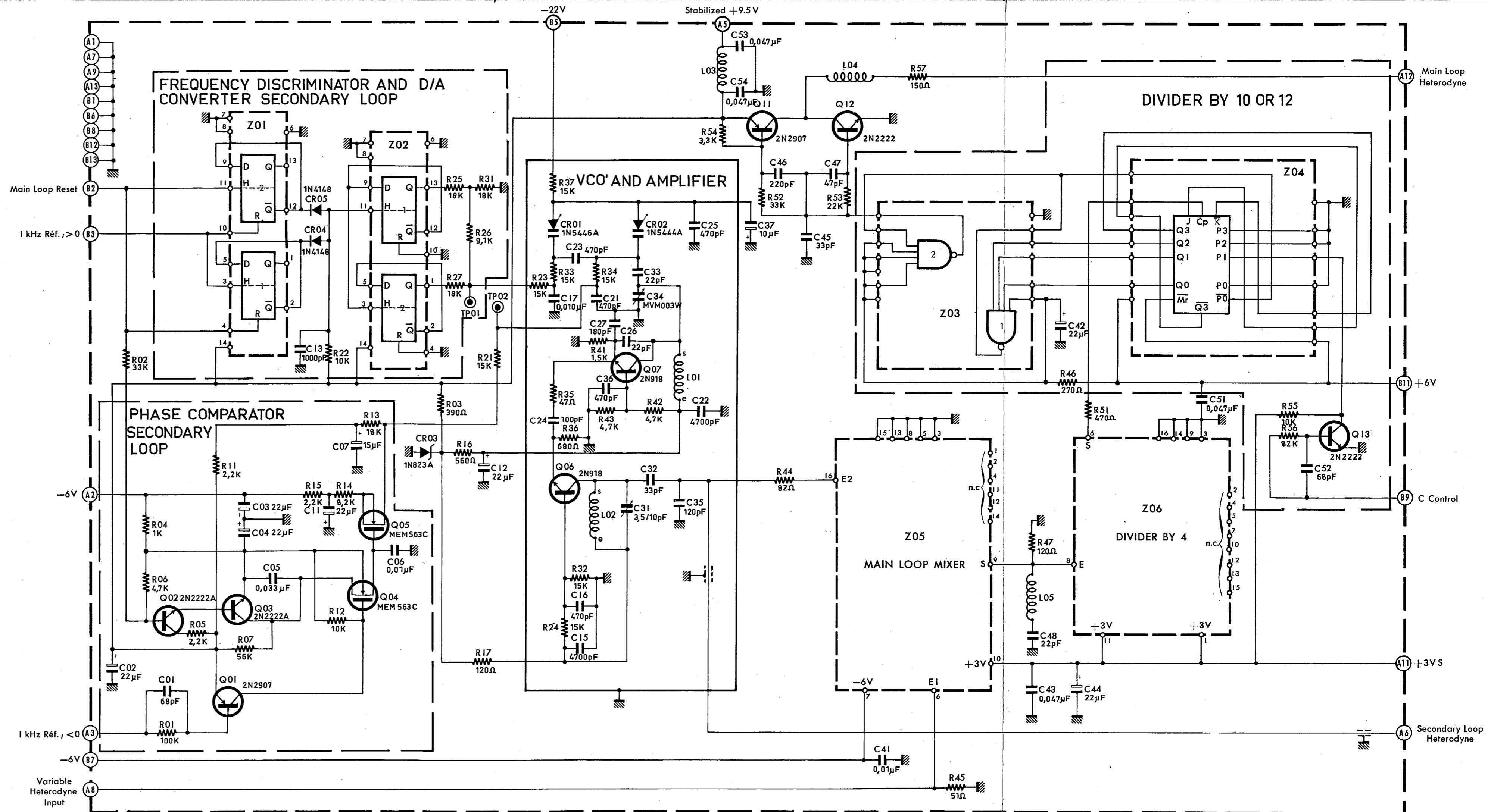
TRANSCEIVER MAN-PACK

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Synthesizer No. 1 Board

Interconnections

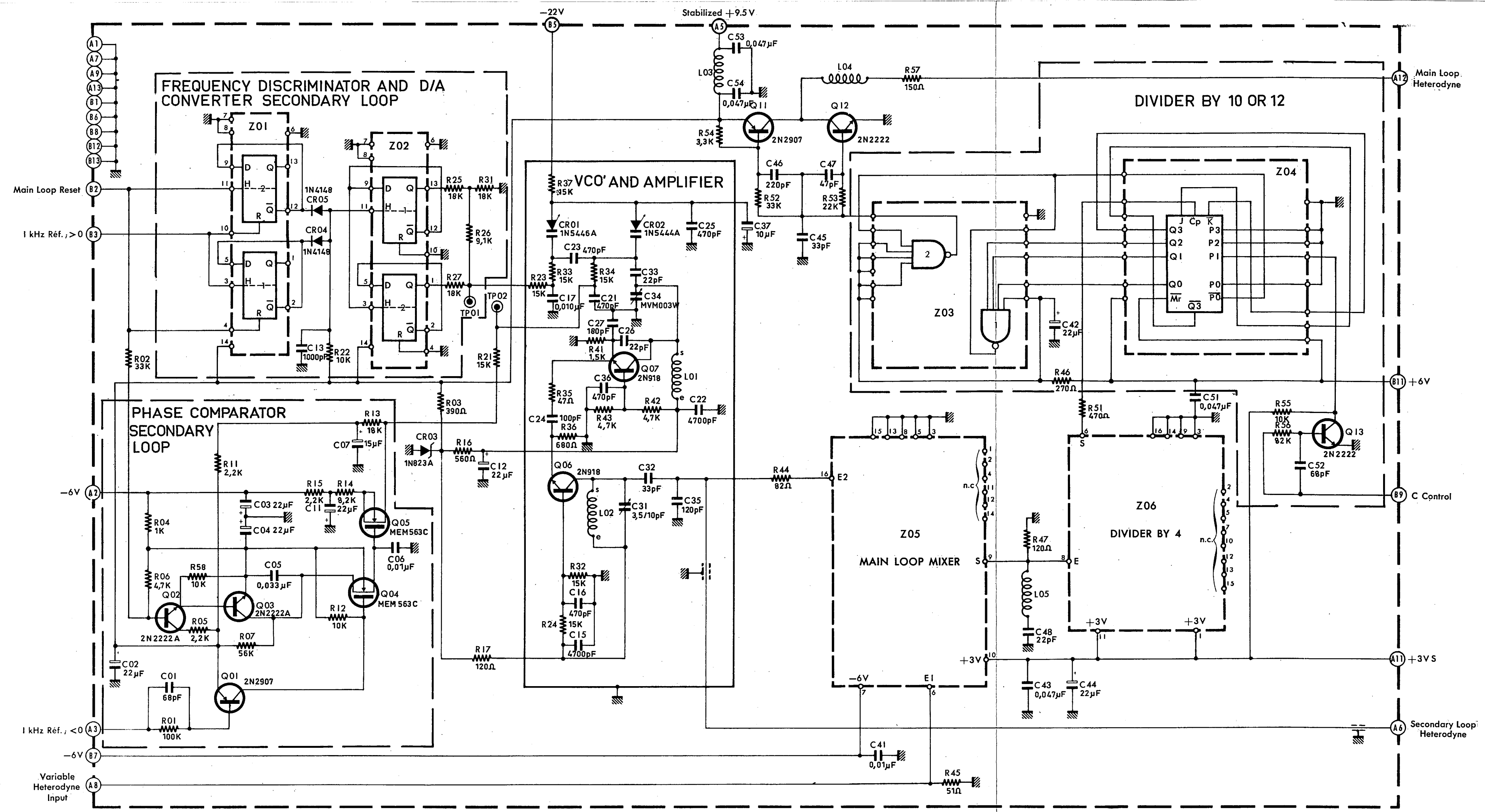
(A VERSION)



TRANSCEIVER MAN-PACK RS-B25-SA

Synthesizer No. 1 Board

Interconnections (B VERSION)



TRANSCEIVER MAN-PACK

RS-B25-SA

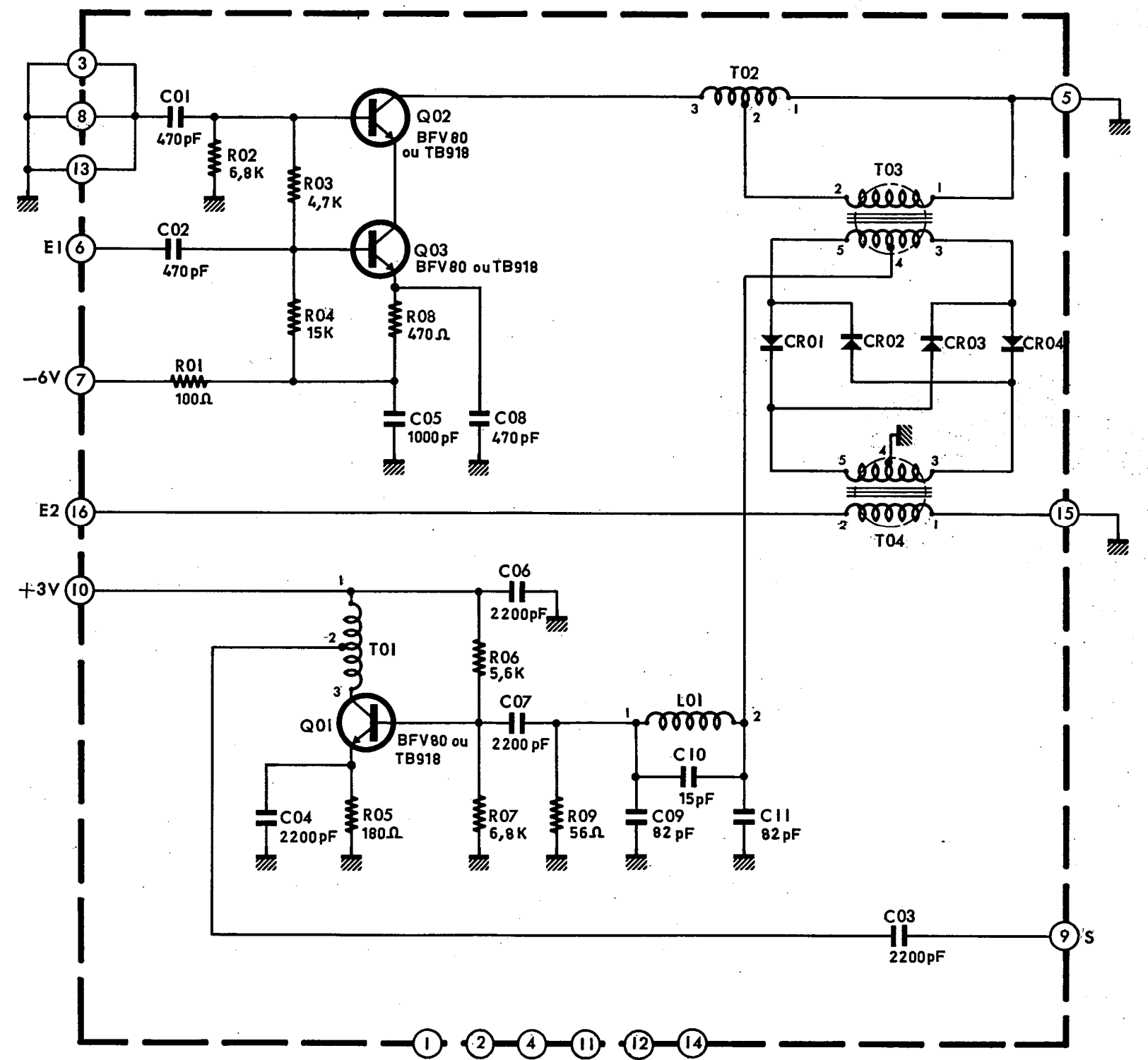
Synthesizer No. 1 Board

Diagram of Main Loop

Mixer Module

Z05

(A and B VERSION)



TRANSCEIVER MAN-PACK

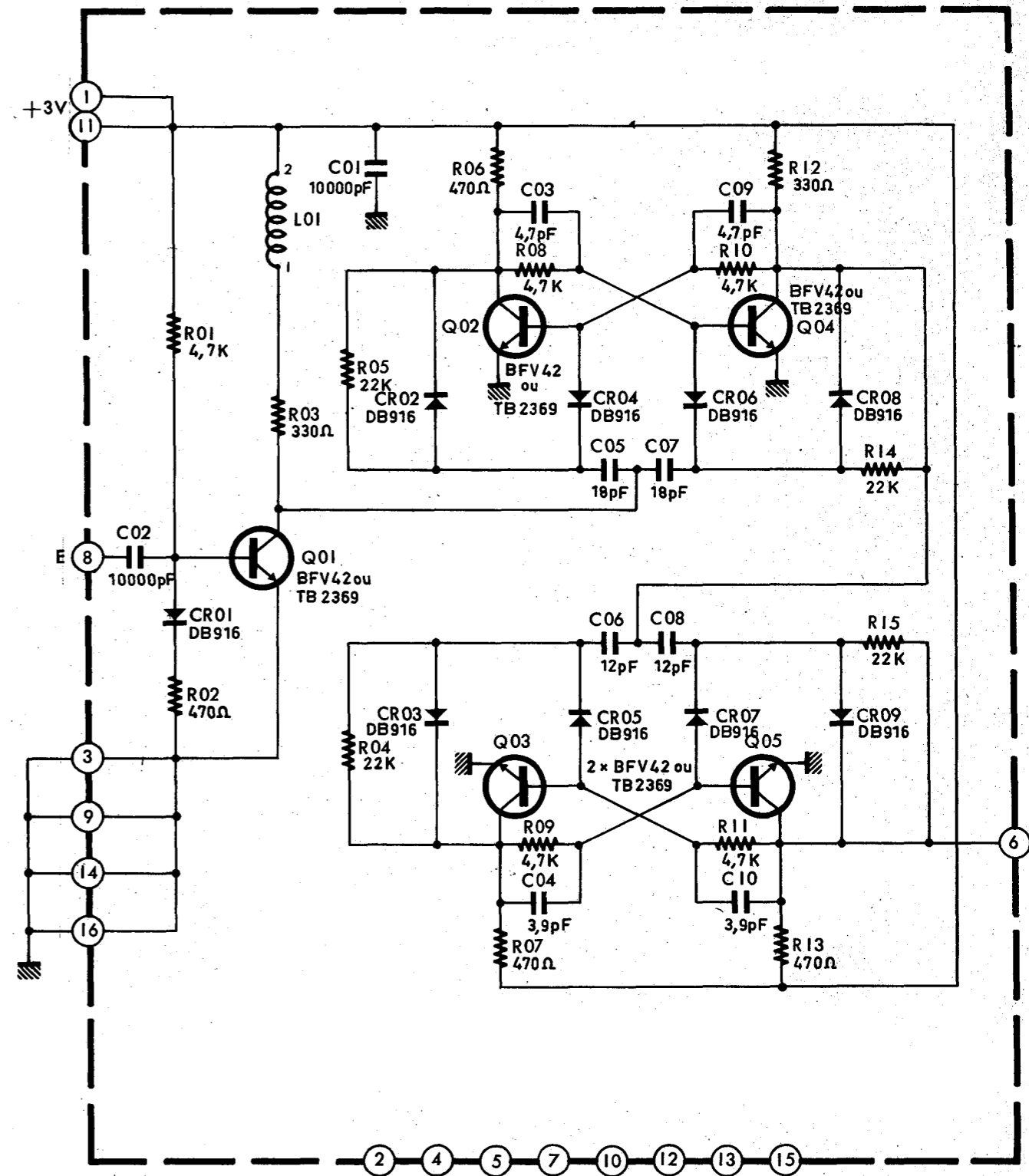
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Synthesizer No. 1 Board

Diagram of Divider by Four Module

Z06

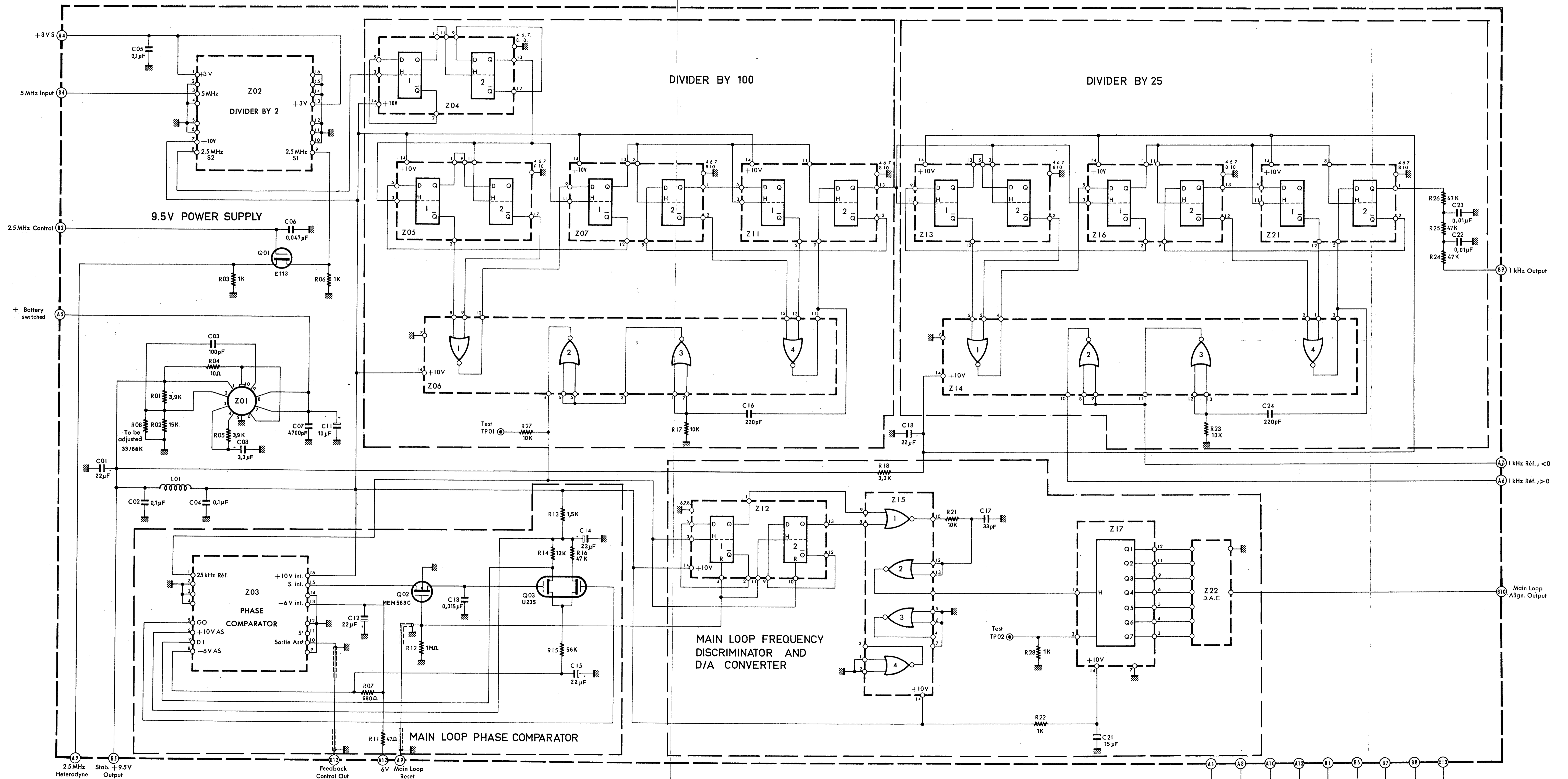
(A and B VERSION)



TRANSCEIVER MAN-PACK RS-B25-SA

Synthesizer No. 2 Board

Circuit Diagram (A and B VERSION)



TRANSCEIVER

MAN-PACK

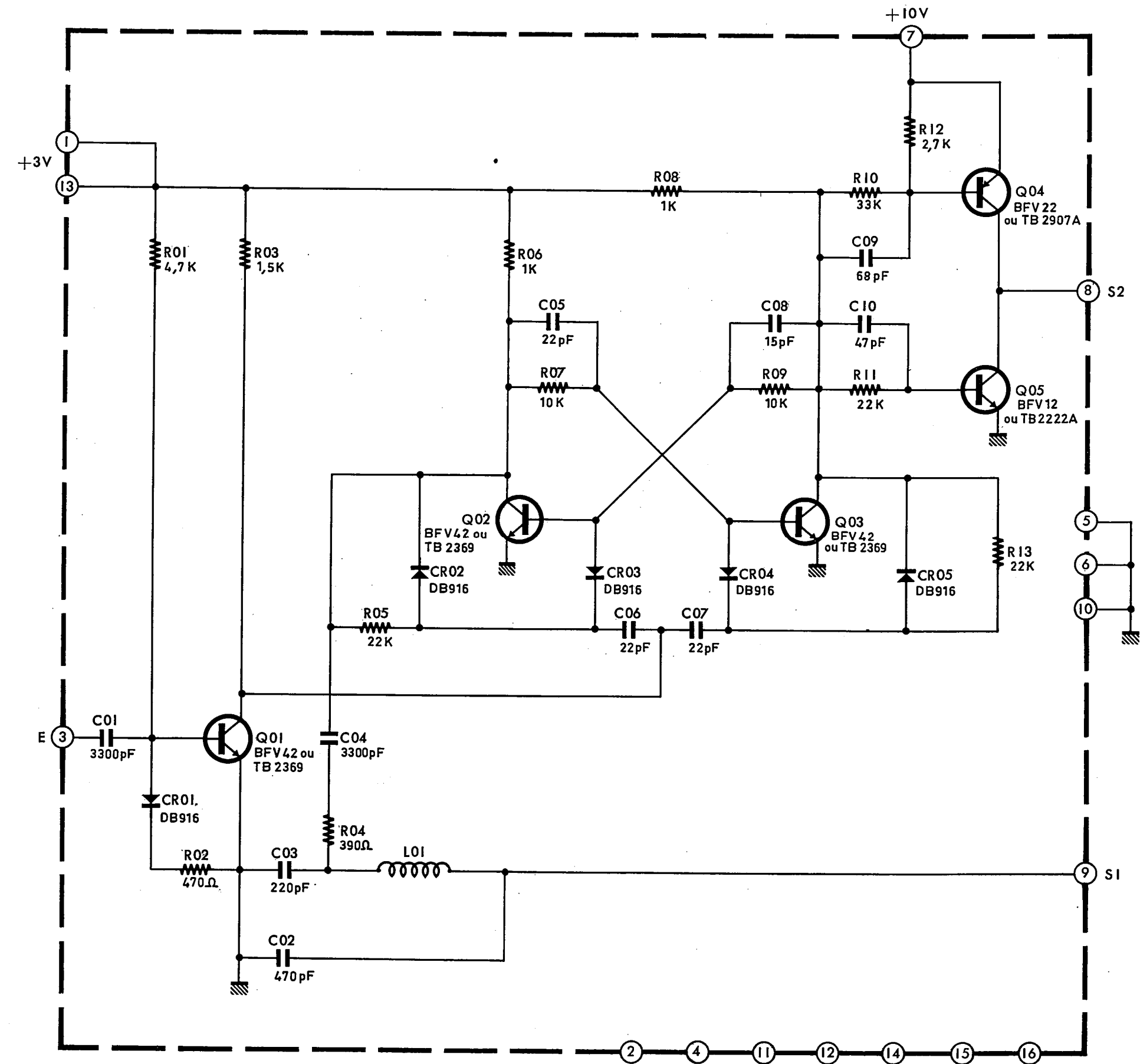
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Synthesizer No. 2 Board

Diagram of Divider by Two Module

Z02

(A and B VERSION)



TRANSCEIVER MAN-PACK

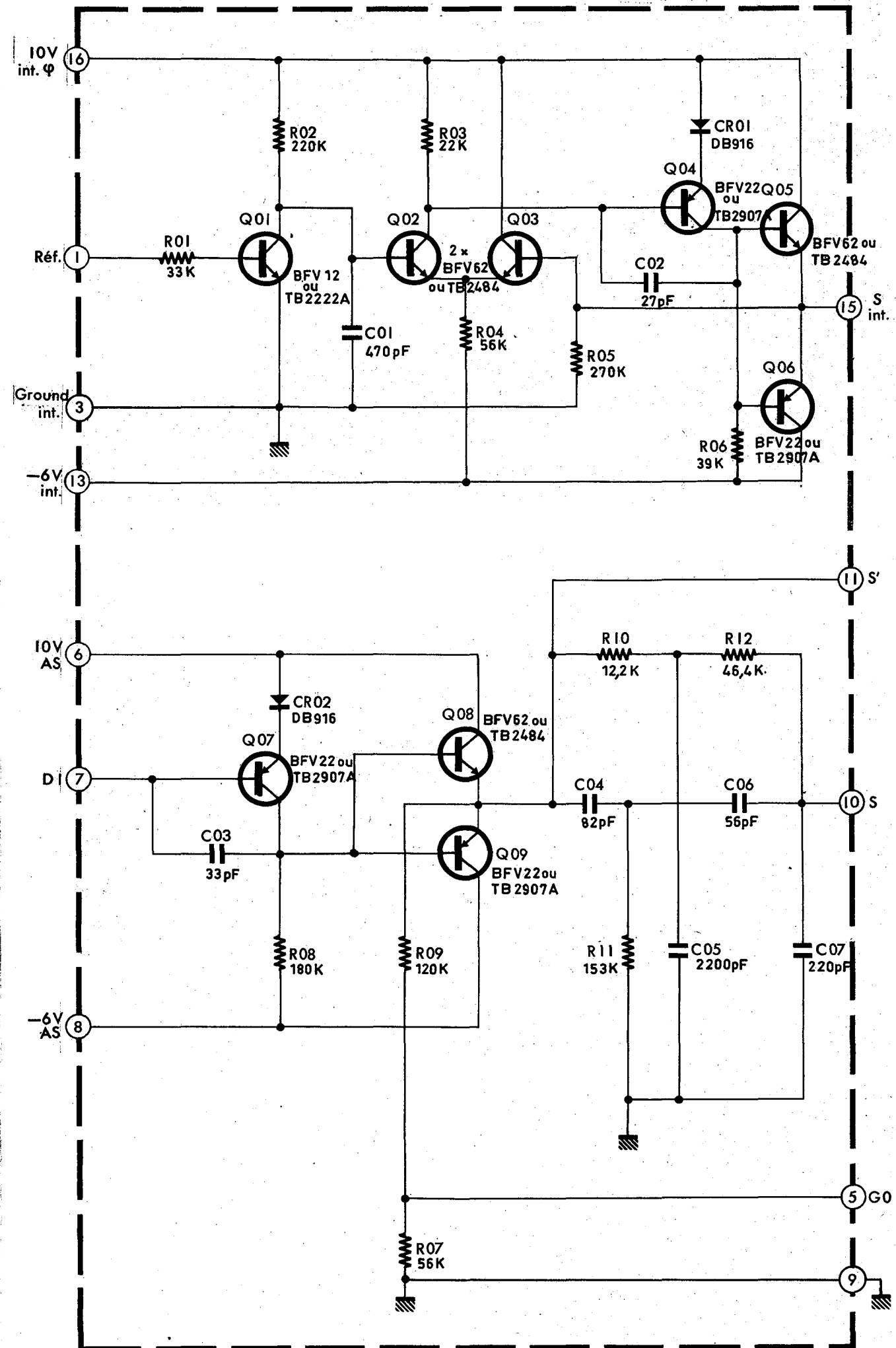
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Synthesizer No. 2 Board

Diagram of Phase Comparator Module

Z03

(A and B VERSION)



TRANSCEIVER MAN-PACK

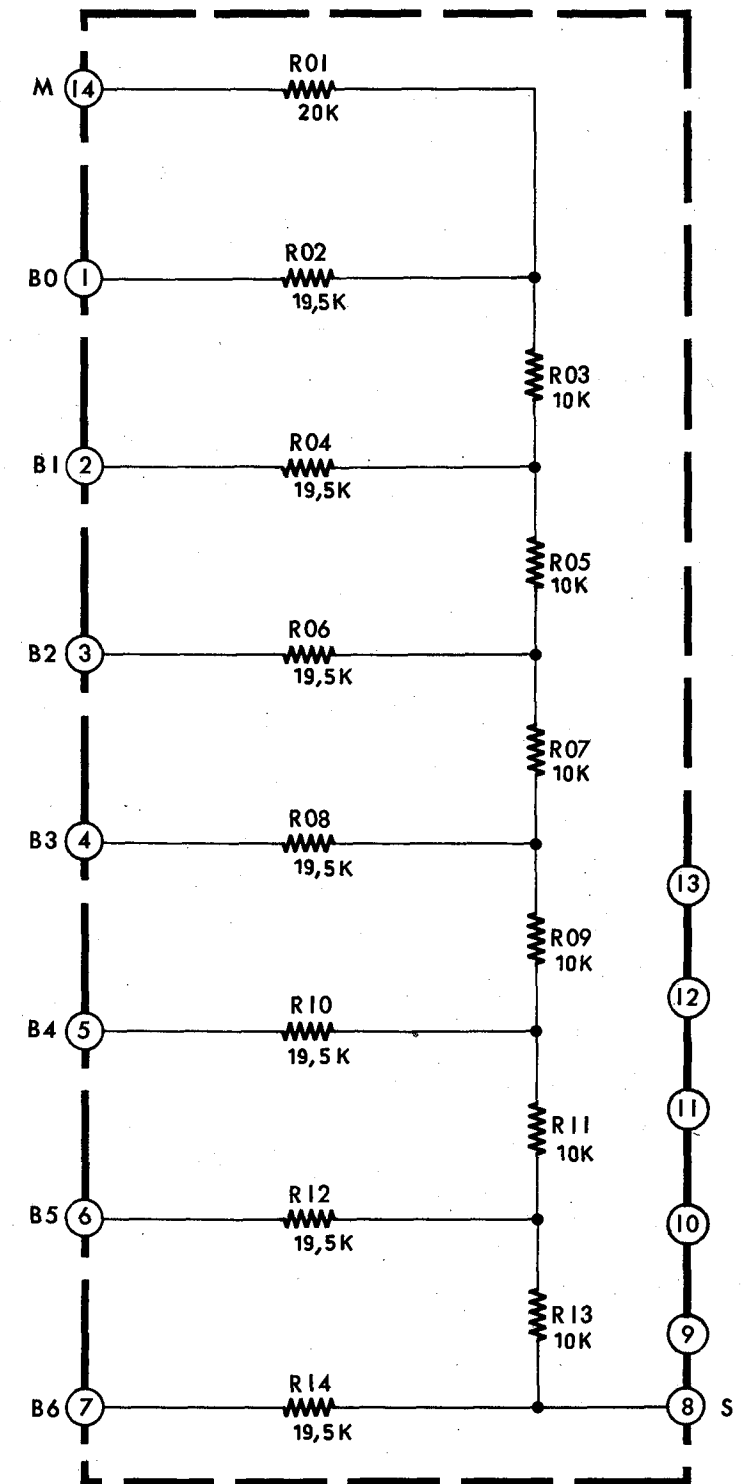
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Synthesizer No . 2 Board

Diagram of Digital / Analog
Converter Module

Z 22

(A and B VERSION)



TRANSCEIVER

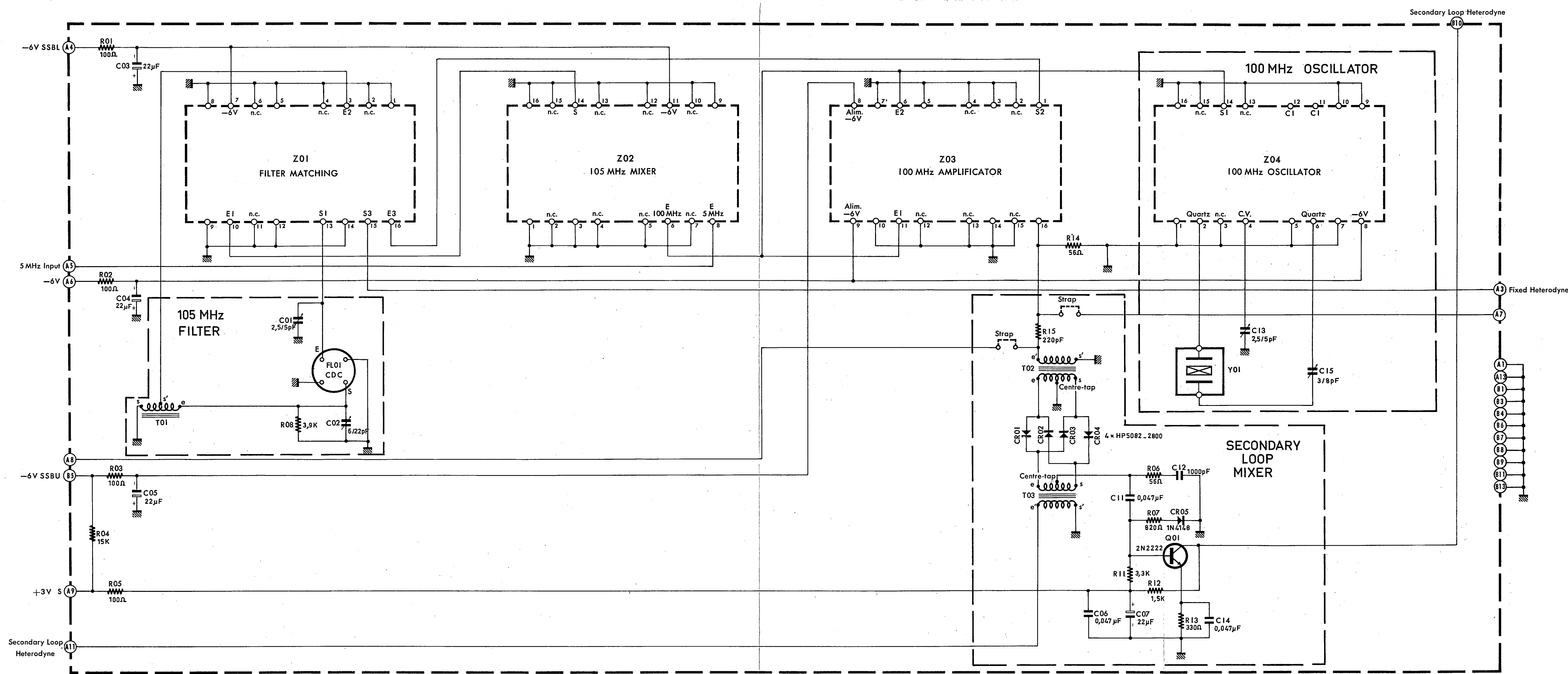
MAN-PACK

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Synthesizer N° 3 Board

Circuit Diagram

(A and B VERSION)



TRANSCEIVER MAN-PACK

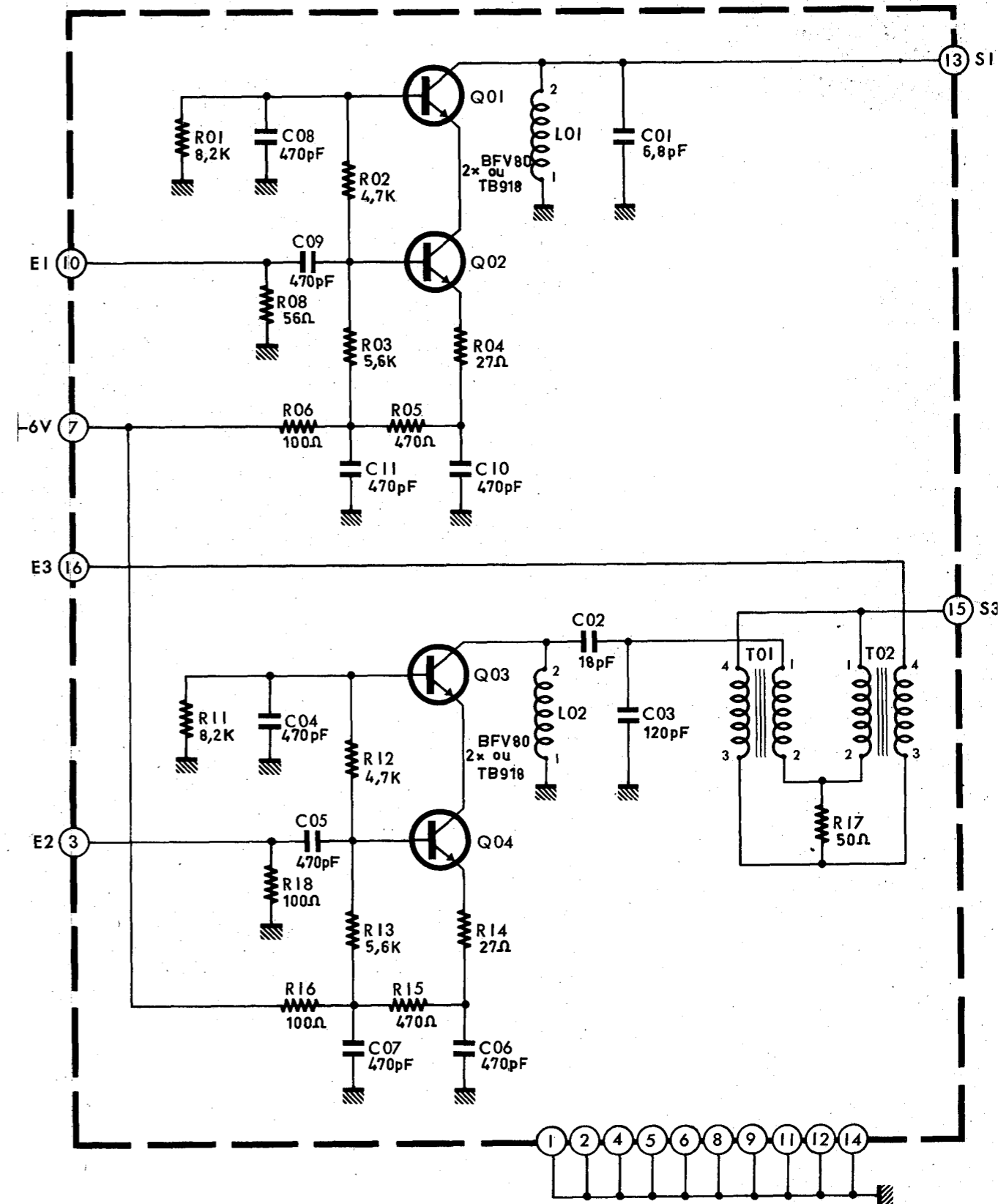
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Synthesizer No. 3 Board

Diagram of Filter Matching Module

Z01

(A and B VERSION)



TRANSCEIVER MAN-PACK

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Synthesizer No. 3 Board

Diagram of 105 MHz Mixer

Z02

(A and B VERSION)

