

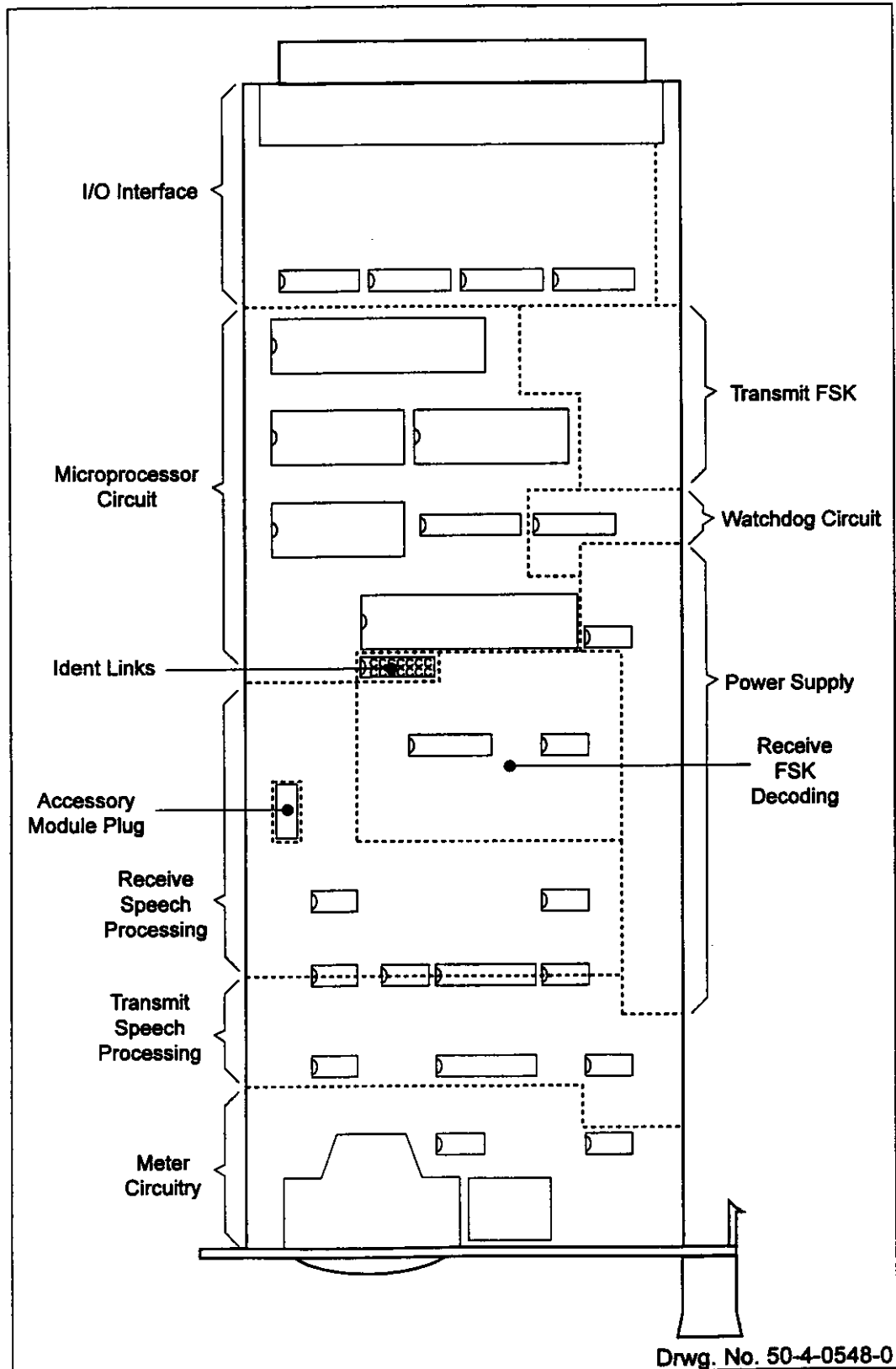


Figure 6.1 Controller Type 2737 Layout

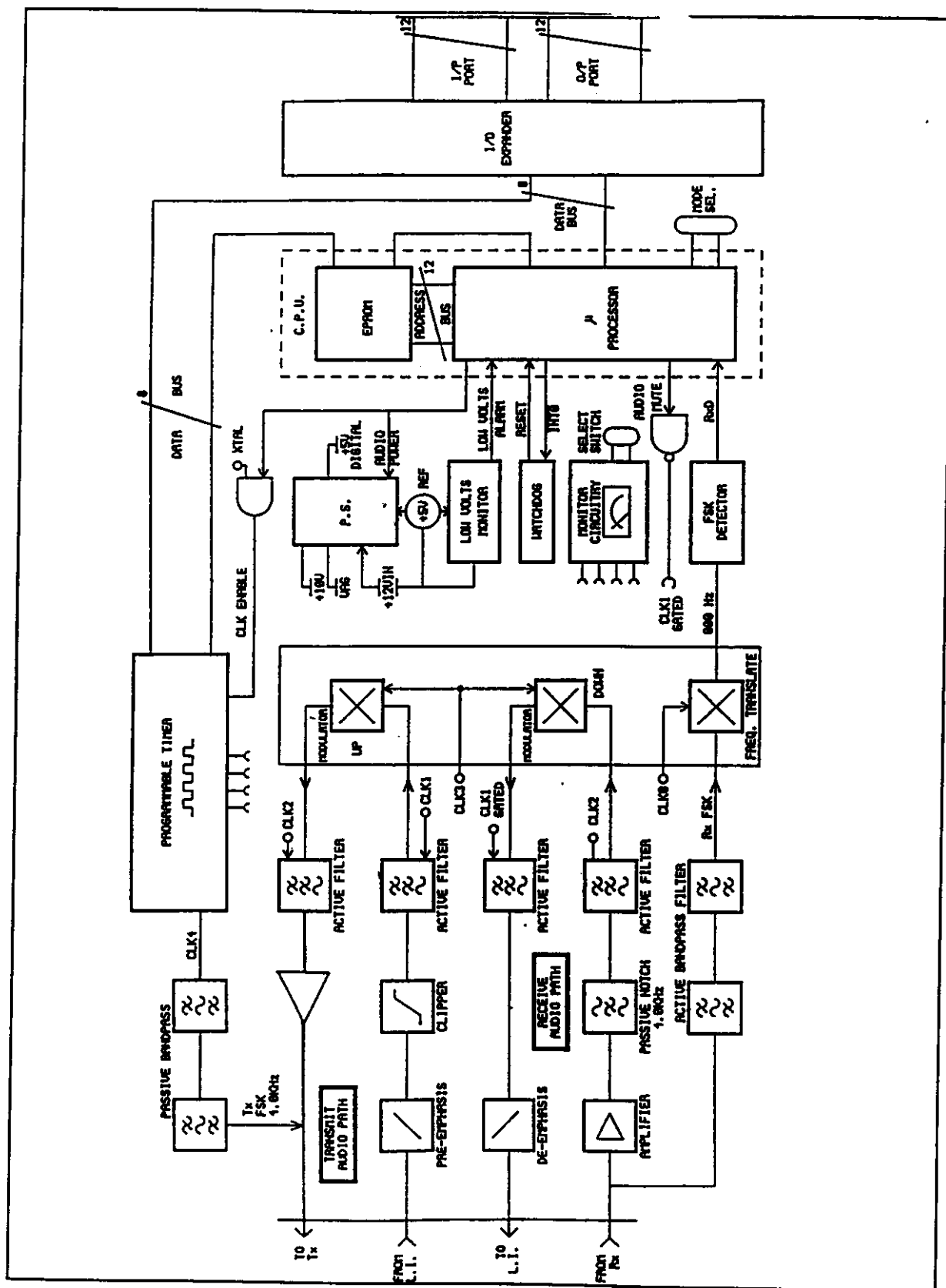


Figure 6.3 Controller 2737 - Block Diagram

Drg. no. 26-3-1220-0

Figure 6.2 Controller 2737 - Levels on 2504 Test Unit or Single Channel System Drg.no. 26-3-12190

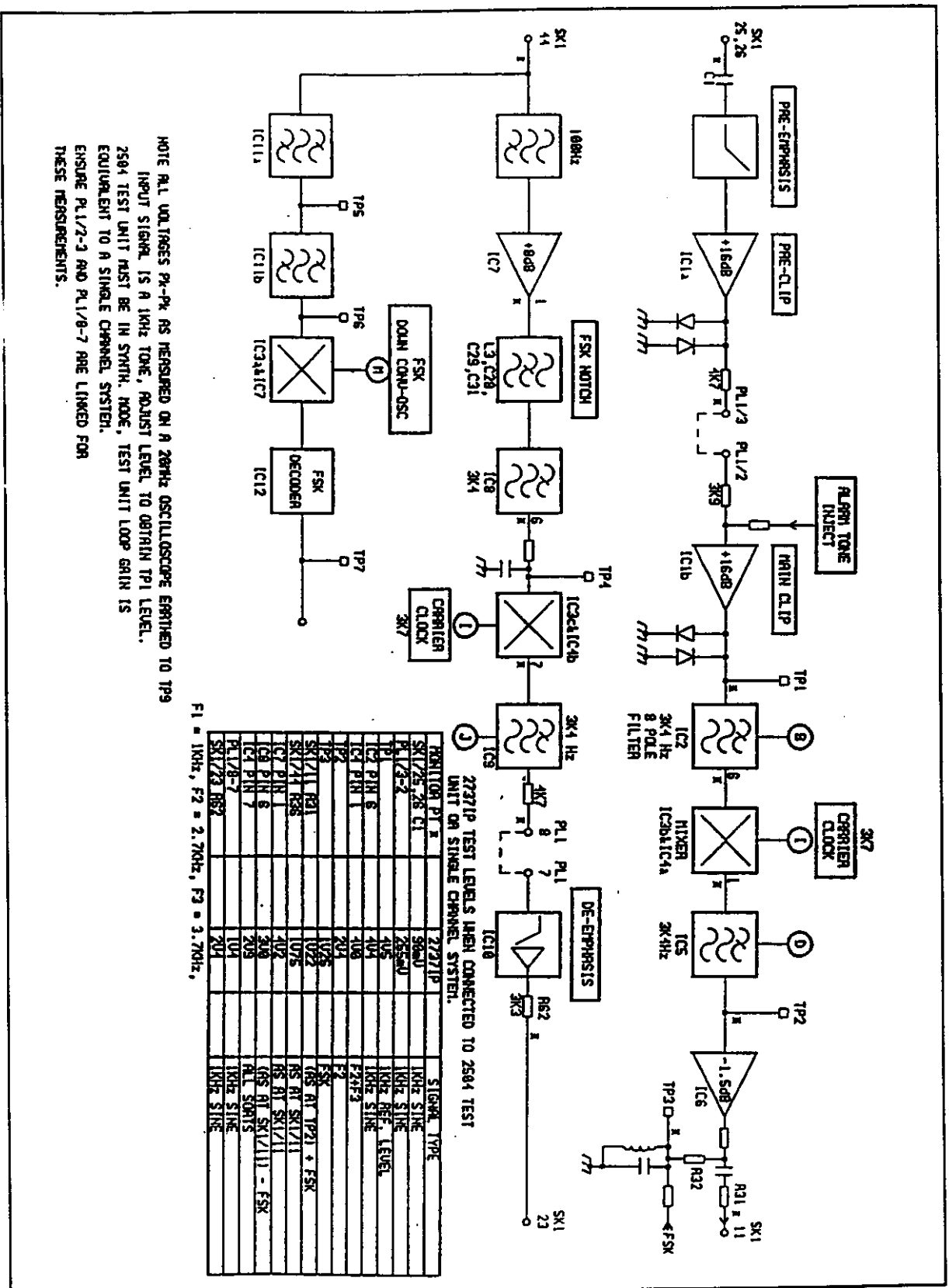


Figure 6.4a Controller Type 2737 Circuit Diagram (Page 1 of 2)

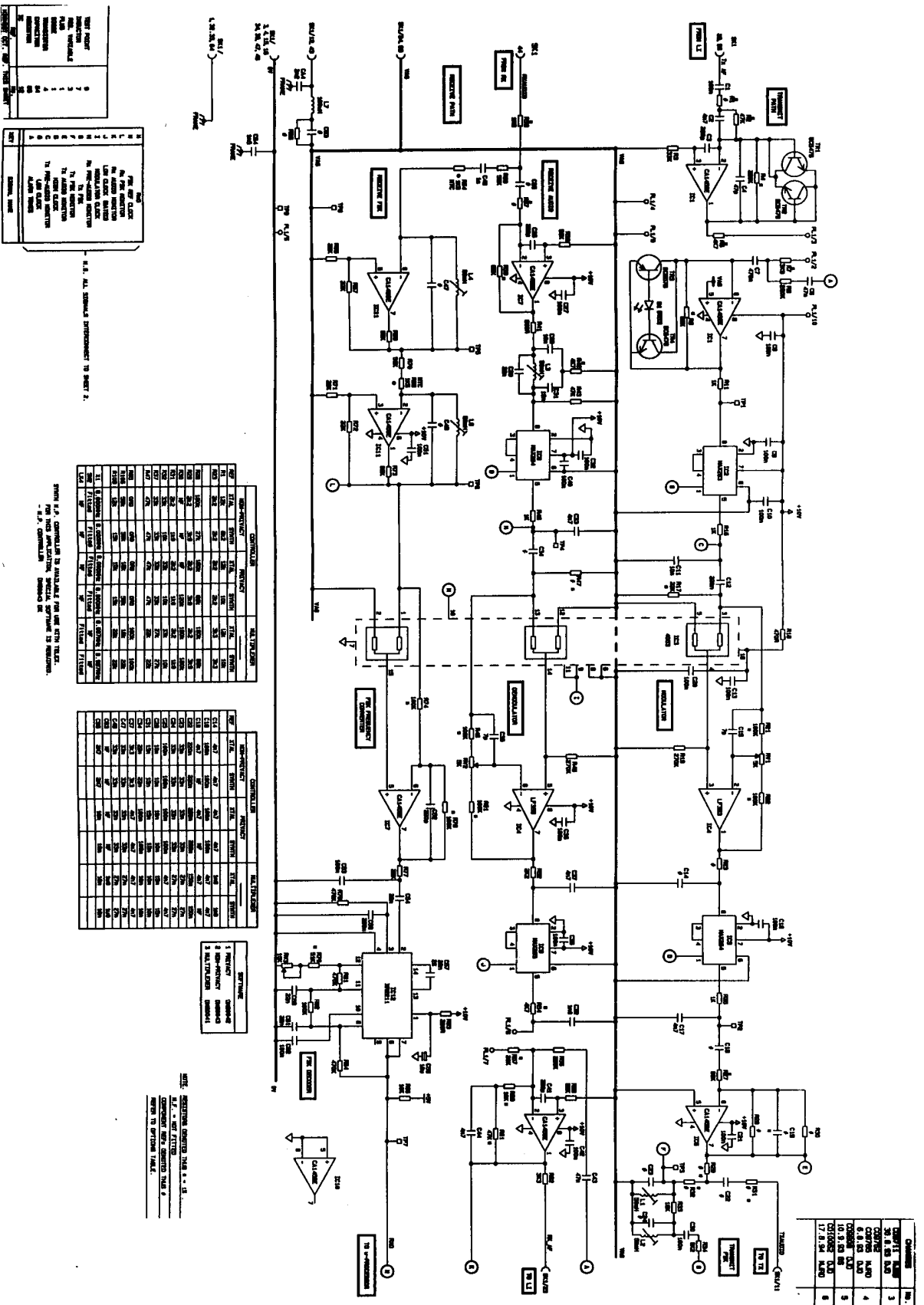


Figure 6.4a Controller Type 2737 Circuit Diagram (Page 2 of 2)

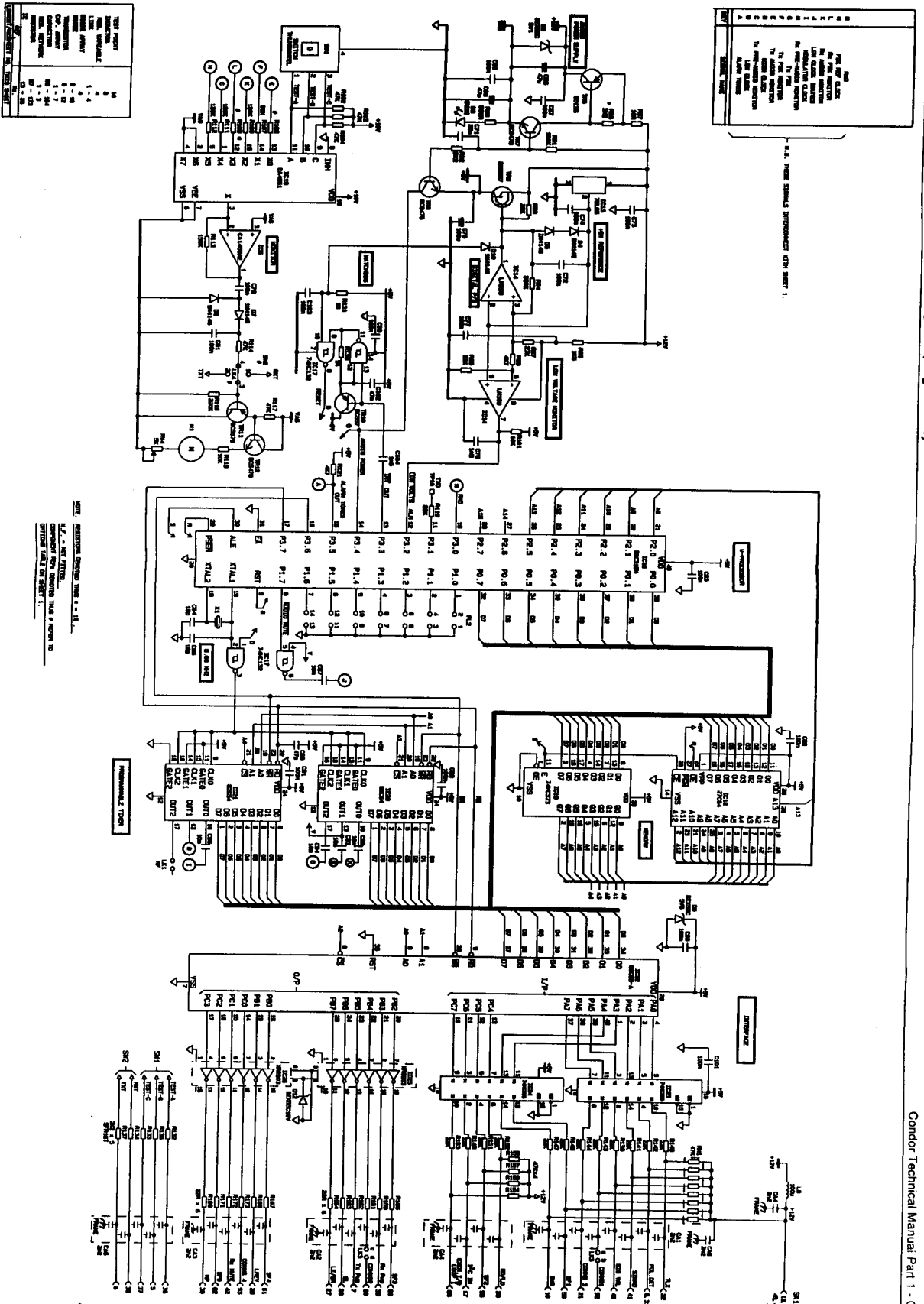


Figure 12.4 Mains Power Supply Type 2828 Circuit Diagram

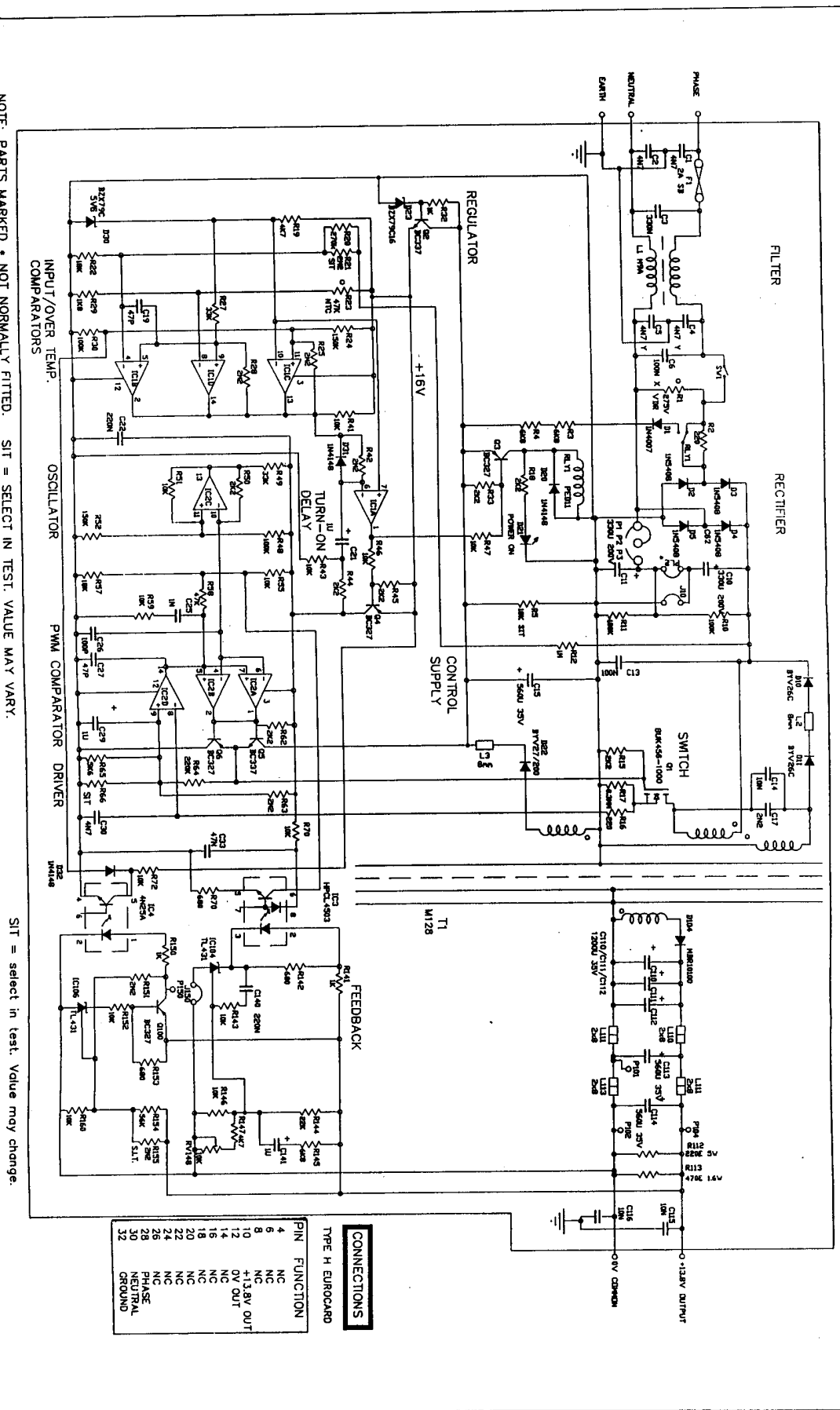
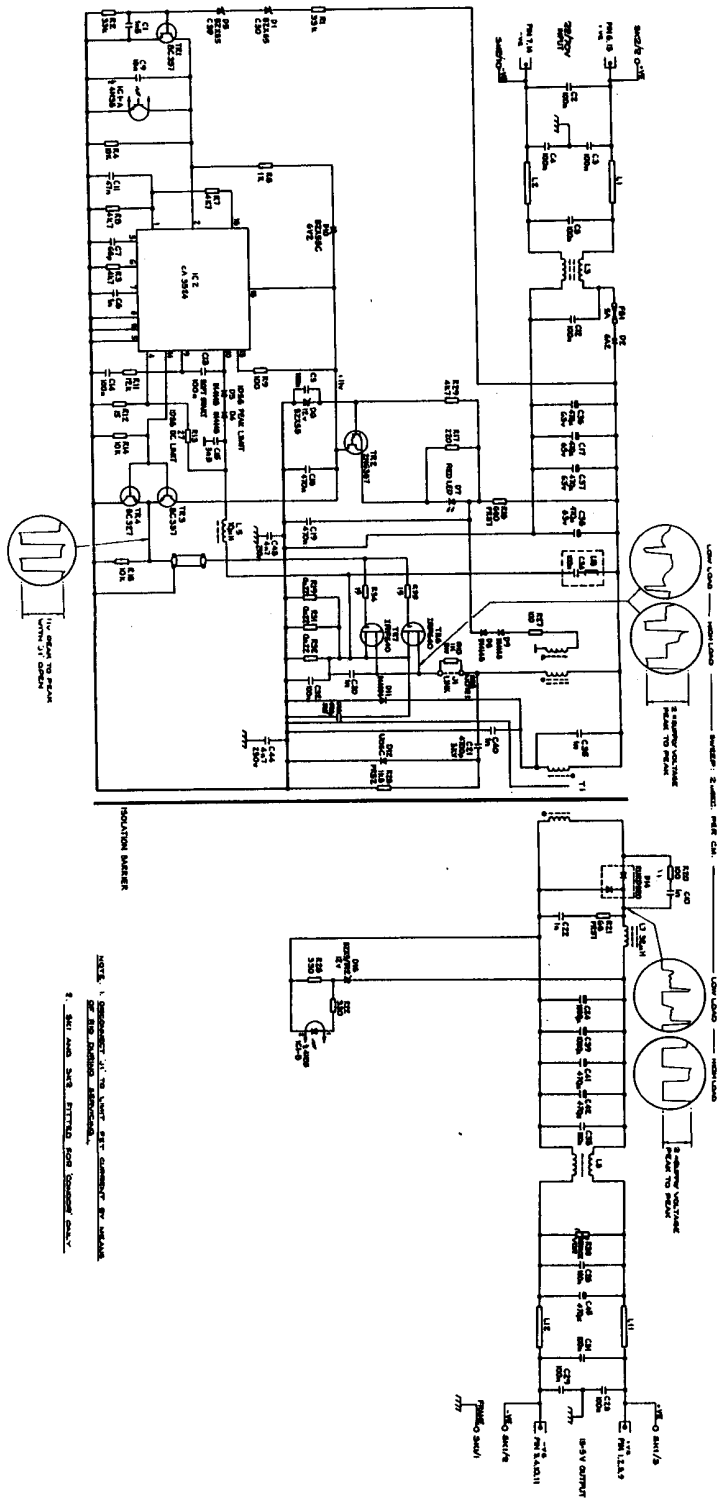


Figure 13.3 DC-DC Converter Type 2461 Circuit Diagram



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EXICOM TECHNOLOGIES (1996) LTD.

TRANSMITTERS: MODELS 2950-3, -4, -5

LIST OF DOCUMENTATION SUBMITTED WITH APPLICATIONS

1. NOTICE FOR INTERMEDIATE MANUAL:

(old 2802) New 2950

2. LIST OF ACTIVE DEVICES : 2950

3. CIRCUIT DIAGRAMS: 3 of 3

TECHNICAL MANUAL
CONDOR 2737

1. PART ONE: CONDOR STANDARD CONFIGURATION
2. PART 2 : SPECIFICATIONS NOT APPLICABLE
3. PART 3: SYSTEM OPERATION
4. PART 4: SYSTEM SETUP
5. PART 6: CONTROLLER TYPE 2737 (includes Circuit Descriptions, Schematics and, Block Diagram etc.)
6. PART 9: INTRODUCTION UHF Type 2950
(Includes Alignment & Block Diagram)
7. PART 10: VHF Duplexer descriptions
8. PART 12: MAIN POWER SUPPLY (includes Schematic)
9. PART 13: DC-DC Converter Type 2461 (includes Schematics)
10. PART 17: SYSTEM SETUP

Important Note

Exicom Technologies has recently designed new transmitter and receiver modules for its Condor radio link product. Specifically, the new 2950 transmitter module replaces the old 2802 module and the new 2940 receiver module replaces the old 2801 module.

The Condor Technical Manual is currently in the process of being updated by Exicom Technologies to include references to these new modules.

This version of the manual is an 'intermediate step' – it contains sections on the new 2950 and 2940 modules (appended to the front of the manual), but the main body still contains many references to the old 2802 and 2801 module. Therefore, wherever you read 2802 or 2801 in this manual, please make the following replacements:

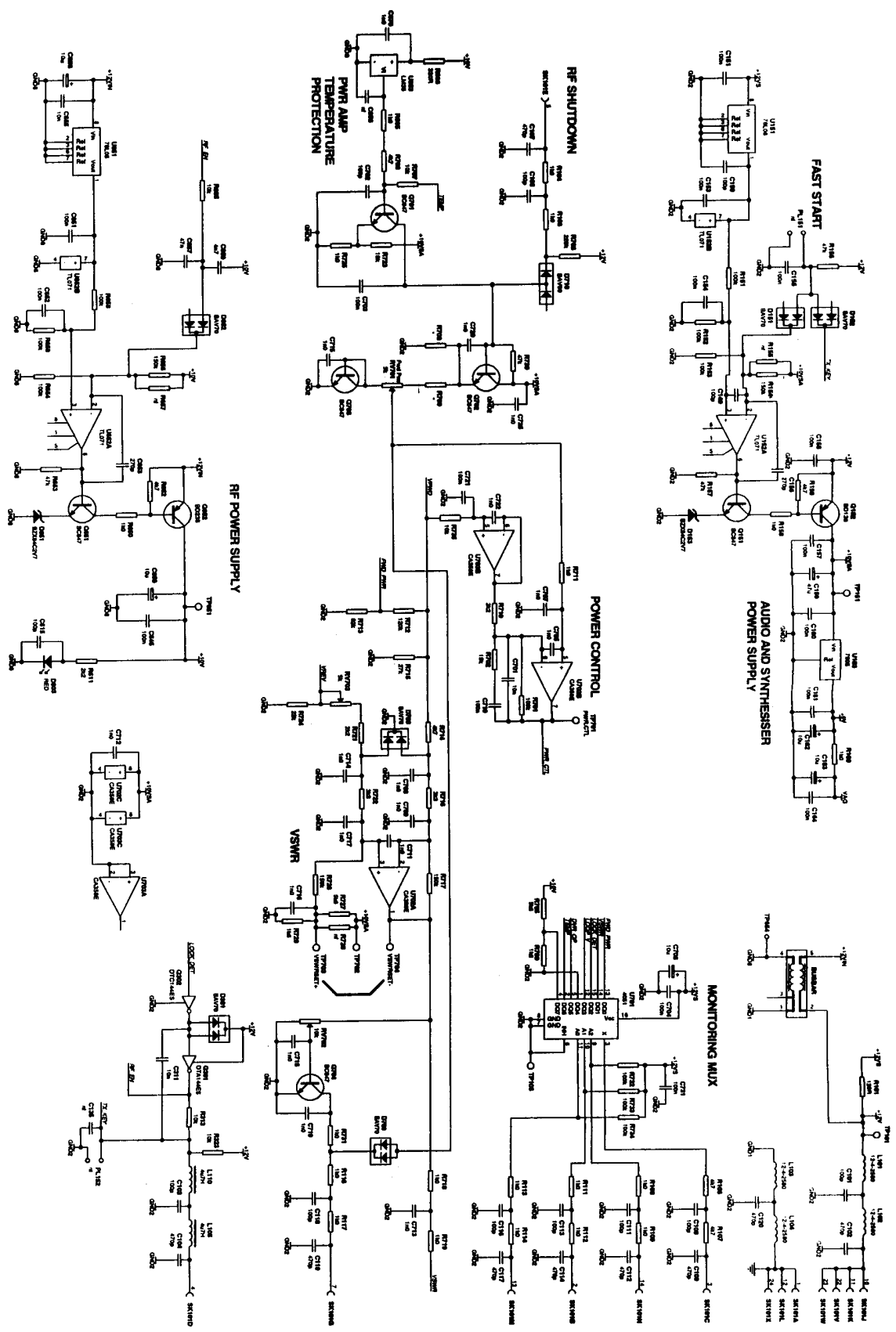
	<i>Old</i>	<i>New</i>
Transmitter	2802	2950
Receiver	2801	2940

Thank you,

Exicom Technologies (1996) Ltd

Active Devices for UHF Transmitter Type 2950

Identifier	Manufacturer's Part Number	Description
D151, D152, D301, D401, D402	BAV70	General purpose diodes
D153, D651	BZX84C2V7	Voltage offset in 10V power supply shift regulators
D200	BB515	UHF varicap for VCO tuning
D201	BB515	UHF varicap audio modulation in VCO
D300, D505, D710	BAV99	General purpose diodes
D501, D502, D503, D652, D700, D703	BAV70	General purpose diodes
D602, D603	LED Red	Front panel indicators
D604, D606	5082-2800	SWR bridge RF detectors
Q151, Q402, Q601, Q602	BC847B	General purpose transistors
Q200	BFR93A	UHF oscillator in VCO tuning
Q301	DTA 144	Digital transistor
Q302	DTC144EC-A	Digital transistor
Q401	BC857B	General purpose transistors
Q501	BF994S	Gain control device in power block driver
Q502	2SK2973	Output stage of powerblock driver
Q651, Q701, Q702, Q703, Q704	BC847B	General purpose transistors
Q652, Q152	BD136	Series pass transistors for +10ps regulators
TCXO	TCXO	Temperature stable crystal oscillator reference
U101	TL074CD	Audio stage amplifiers
U151, U651	MC78L08ACD	8V regulators used as reference voltages
U152, U652	CA3140M	10V power supply regulator amplifier
U153	HA17805	5v regulator for uprocessor end phase lock loop IC
U302	AT89C2051-24SI	Microprocessor
U303, U304, U305	MM74HC165M	Shift registers for loading user settable parameters
U307	UMA1014T	Phase lock loop synthesizer
U308	TL071CD	Phase lock loop amplifier
U401	LT1054CS8	Voltage inverter for VCO negative supply
U601	M57704H	Output power block
U653	LM35DZ	Temperature monitor for power block protection
U701	MC14051BD	Analog Multiplexer for monitoring circuit
U702, U703	LM358M	Power control and SWR protection circuit amplifiers



NOTES:
1. Values given in "B" refer to 100%
2. Values given in "B" refer to 100%
3. Values given in "B" refer to 100%
4. Values given in "B" refer to 100%

NAME	VALUE	UNIT
NAME	VALUE	UNIT
NAME	VALUE	UNIT
NAME	VALUE	UNIT

