

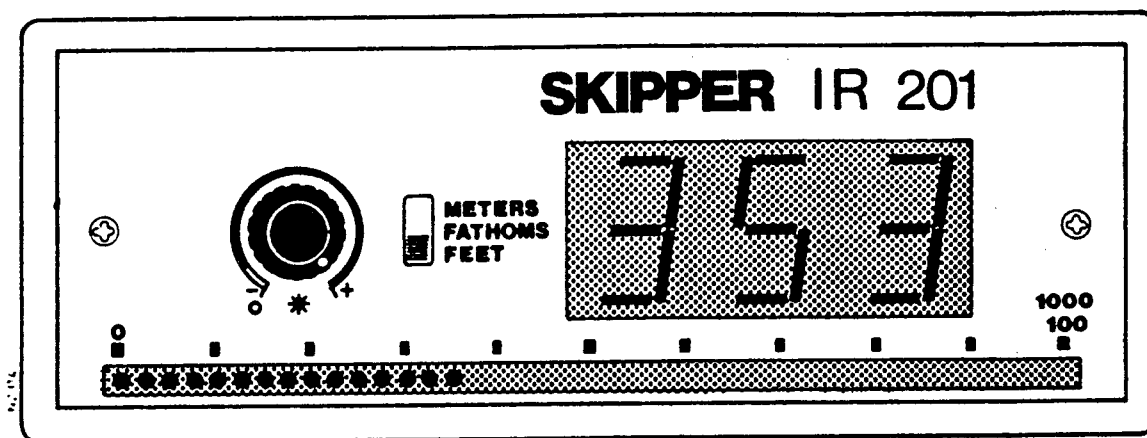
SKIPPER IR 201

Depth Indicator

INSTRUCTION MANUAL

MARCH 1989

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THE ECHO SOUNDER

To ensure reliable operation of the Depth Indicator, it is essential that the receiver gain control is set correctly: Turn the gain control knob clockwise until a stable depth indication is obtained. If the setting is too low the display will start blinking. Too high setting may result in false depth indication from air bubbles, plancton layers, side lobes etc.

TECHNICAL SPECIFICATION IR 201

Power supply		220V AC 50/60 Hz
		11—40V DC
		110V AC available
Power consumption		Max. 5 Watts
Depth range		0.1—999 meters/fathoms/feet
Accuracy		+ 0—0.1 digit
Weight		2 kg
Outline dimensions		Width 190 mm
		Depth 70 mm
		Hight 190 mm

INSTALLATION

SKIPPER IR 201 Depth indicator is designed for connection to ED 161 and ED 162 Echo Sounders.

Cabinet mounting

The location of the cabinet should be selected to provide the most convenient reading of the display. The cabinet may be mounted on the bulkhead, in the ceiling, on the table top or recessed in a panel. Mounting hardware is supplied for all mounting alternatives.

Bracket mounting

Fasten the brackets to the ceiling, bulkhead or table top with wood screws or feed-through bolts. Mount the cabinet in the brackets and tilt to a suitable angle, then tighten the fastening knobs.

Panel mounting

Maximum panel thickness is 50 mm. Cut a hole of 63 x 186 mm in the panel. Insert the cabinet and use the mounting brackets as counter-parts as shown on the outline dimensions drawing.

Electrical connections

Connect the cables to the IR 201 cabinet, Echo Sounder and ship's mains according to the cable plan. Observe that AC and DC voltages have different connections. Before switching on the power make sure that the AC—DC mains selector is in correct position and that the fuses have the correct value.

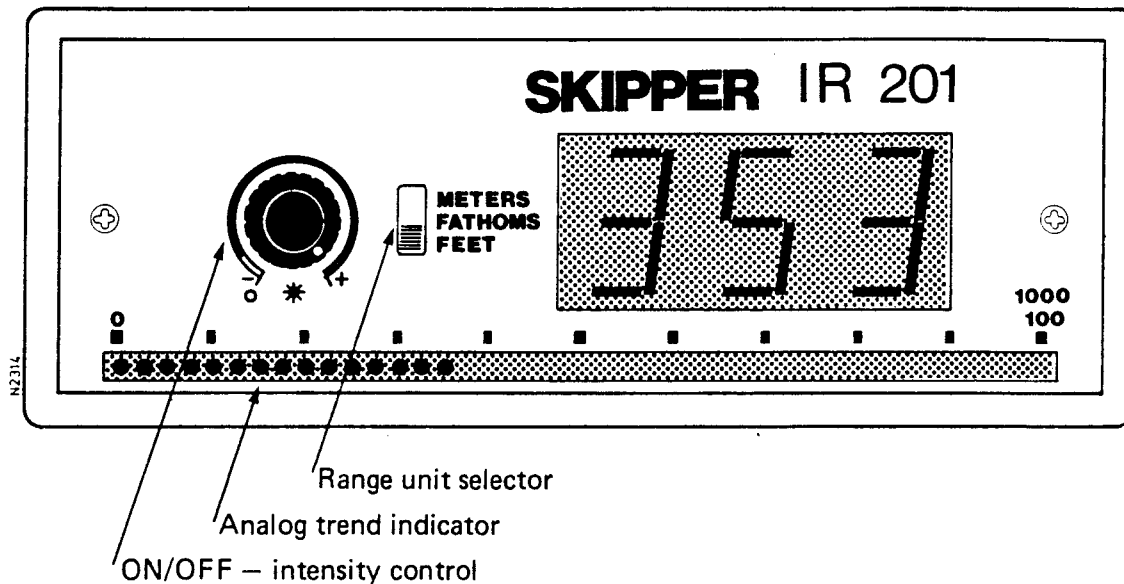
Checking the operation

Switch on the Echo Sounder and the Depth Indicator. Check that the Depth Indicator operates as described in the operating instruction.

INTRODUCTION

SKIPPER IR 201 Depth Indicator is designed for connection to the ED 161 and ED 162 Echo Sounders. IR 201 receives the depth information from the Echo Sounder and displays the depth in meters, fathoms or feet on a three digits 25 mm numeric indicator.

An analog trend indicator provides information of increasing or decreasing depth.



OPERATING CONTROLS

SKIPPER IR 201 is easy to operate, having only two operating controls. Both are located on the front panel.

ON/OFF - intensity control

When the control is turned fully counterclockwise the Depth Indicator is switched off. Clockwise rotation of the control increases the light intensity.

Range unit selector.

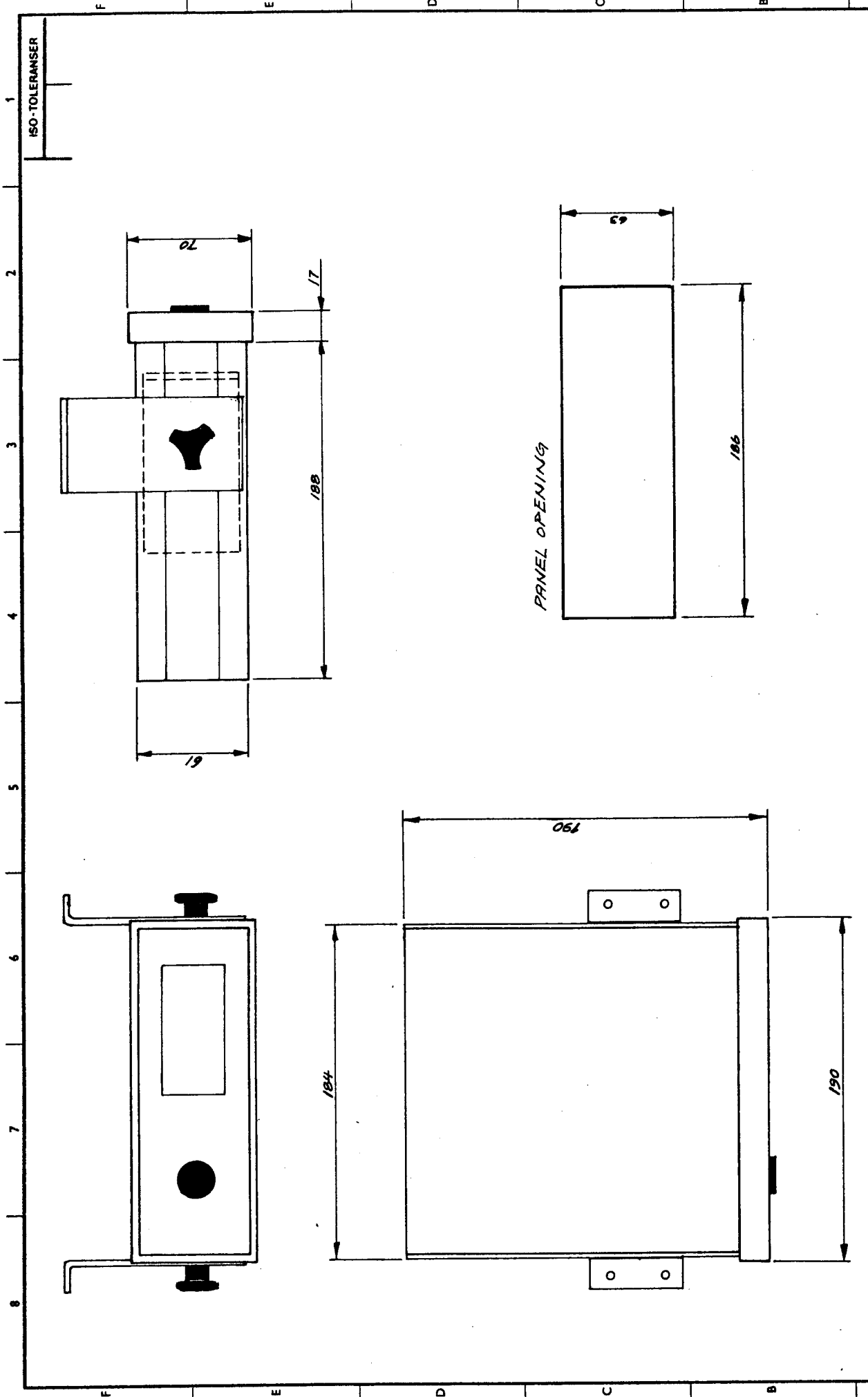
The Depth Indicator displays the depth in meters, fathoms or feet as selected by the range unit selector.

DISPLAY

The three numeric indicators utilize red 25 mm tall digits of light emitting diodes. The Depth Indicator features automatic range selection. At depths less than 100 range units, the decimal point light to indicate the depth to one decimal place. At depths less than 10 range units the leftmost digit extinguishes.

Analog trend indicator.

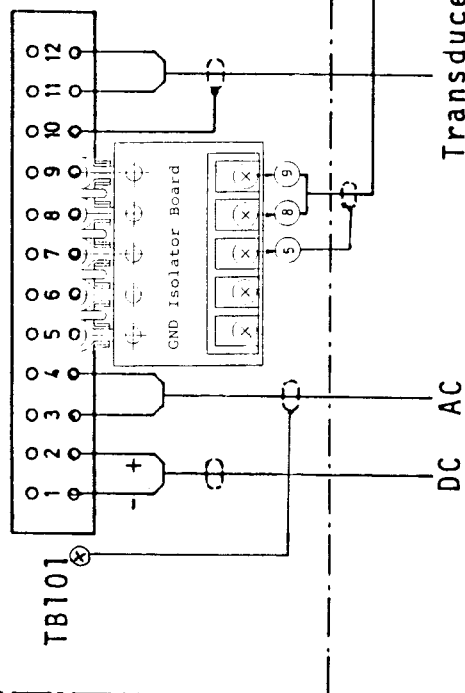
A row of 42 light emitting diodes along the lower cabinet-front indicates whether the depth is increasing or decreasing. The analog trend indicator has two ranges 0—100 and 0—1000 (meters/fathoms/feet) with automatic range selection.



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TEGN.				TEGN.				OUTLINE DIMENSIONS			
KONTR.				KONTR.				SKIPPER IR201			
GODKJ.				GODKJ.				ARKIV NR.			
8005/10				8005/10				T-I-1.0			
- - -				- - -							
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SKIPPER ED161 / ED162

SKIPPER IR201



Transducer

DC AC



Before switching on the power make sure that the AC-DC mains selector is in correct position and that the fuses have the correct value:

11 - 40 V DC: 1.0 A
110/220 V AC: 0.3 A



Transducer cable:
2 x 1.5 mm² with screen.

Mains cables and signal cable for IR201:
5 meters supplied by SKIPPER

Mains:

11 - 40 volts DC or 220 volts AC.
110 volts AC available.

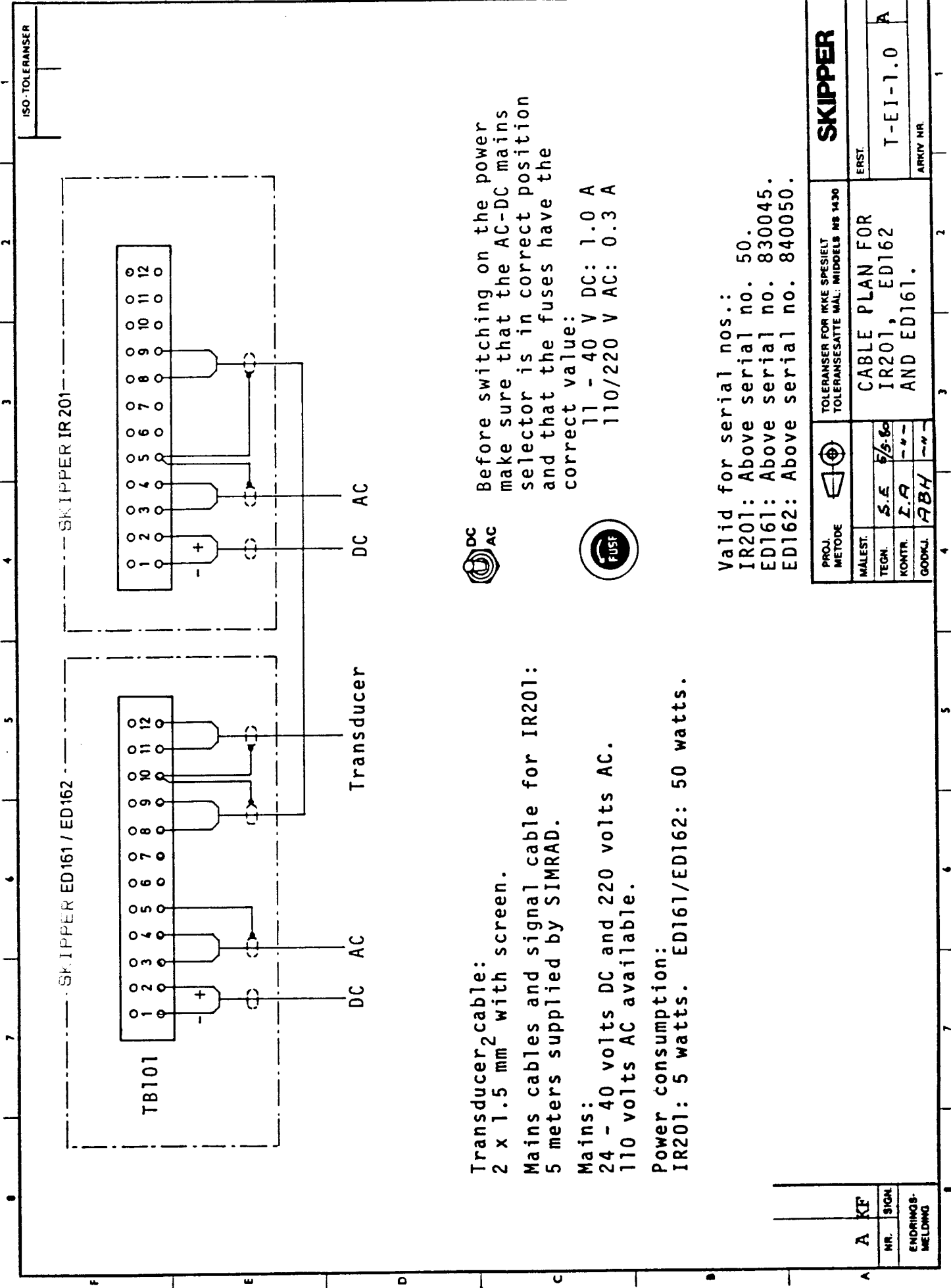
Power consumption:
IR201: 5 watts. ED161/ED162: 50 watts.

Valid for serial nos.:
IR201: Above serial no. 50.
ED161: Above serial no. 830045.
ED162: Above serial no. 840050.

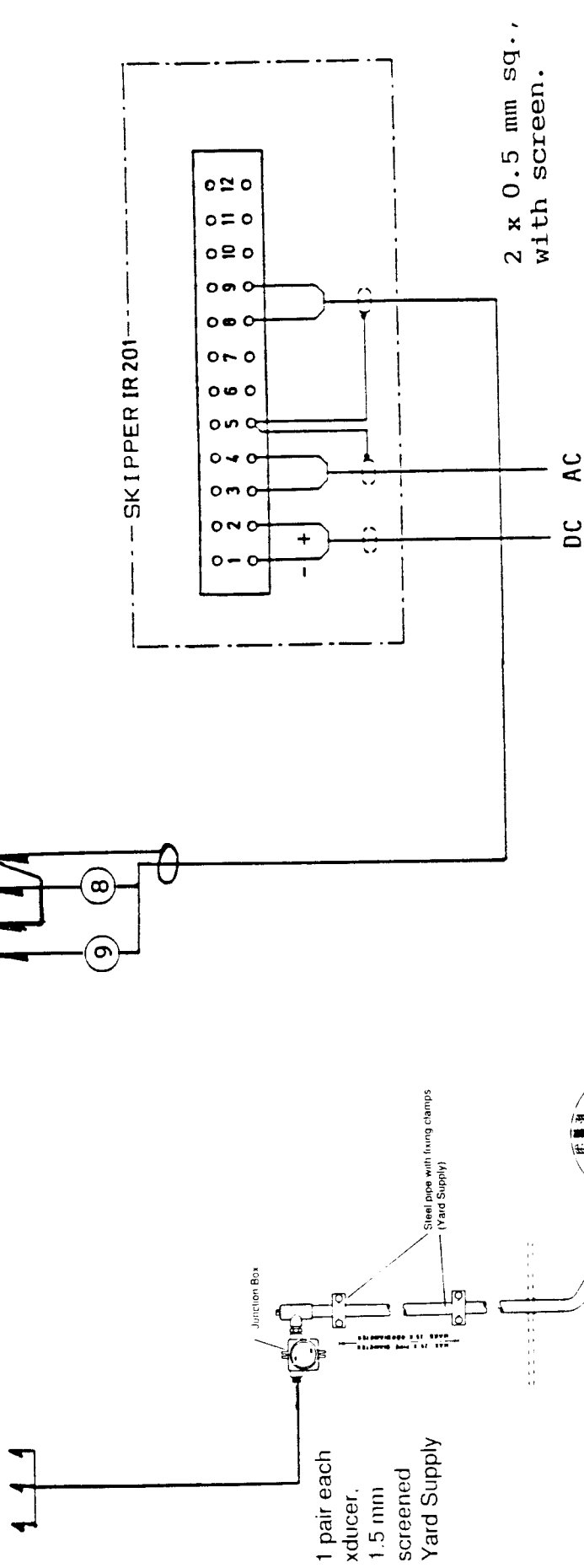
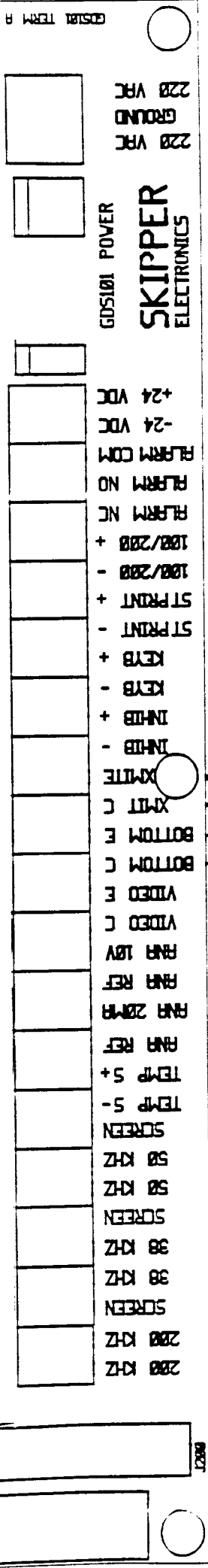
A		KF	
NR.		SIGN.	
ENDINGS- MELDING			

IR201: 3 WATTS.		ED161/ED162: 30 WATTS.	
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MALEST.				CABLE PLAN FOR IR201, ED162 AND ED161.		ERST.	
TEGN.		S.E 5/5-85					
MONTR.		L.A --					
GODKJL		B.H --					
						ARKIV NR.	



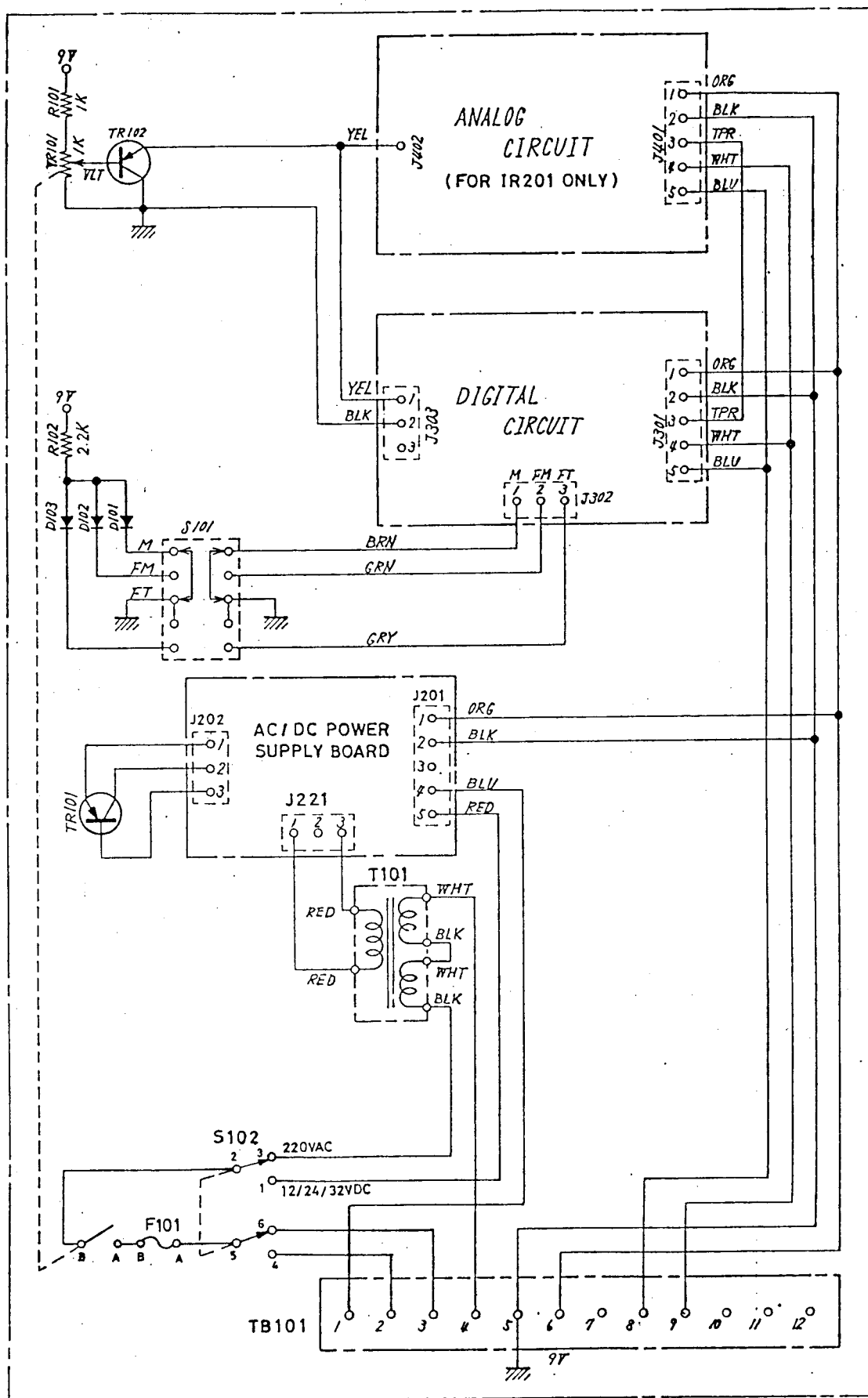
SKIPPER GDS 101 CONNECTION TERMINALS



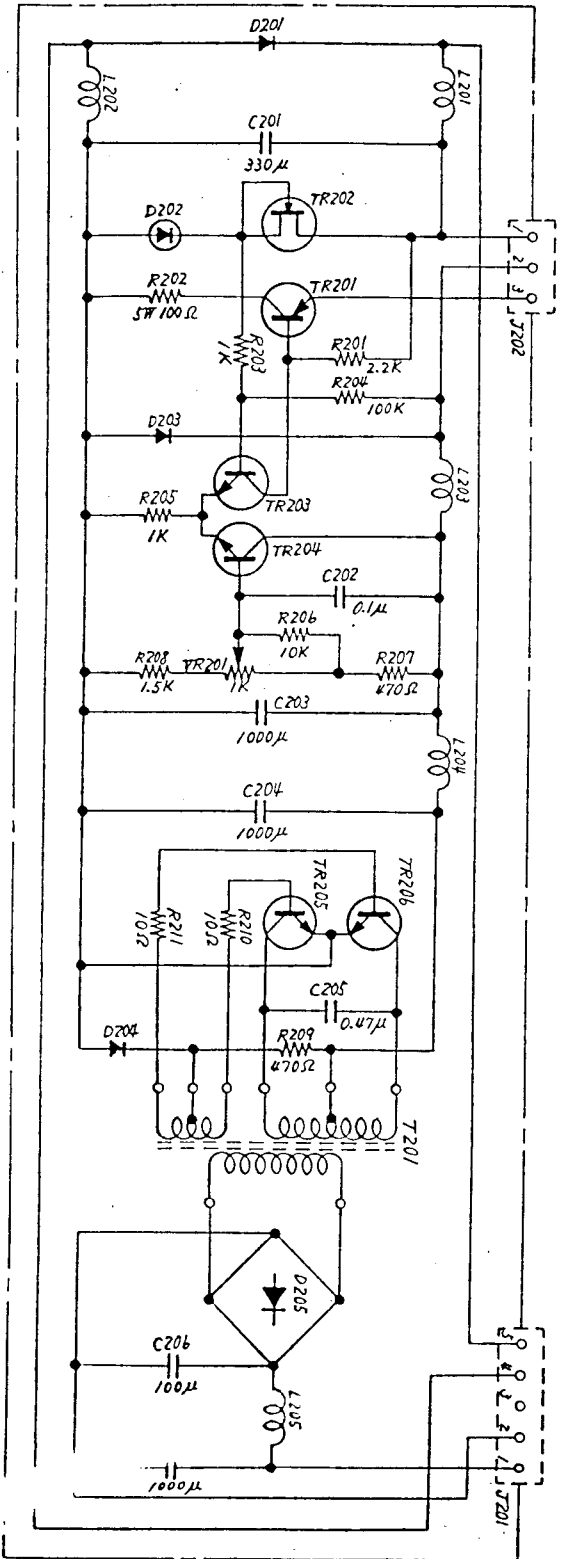
SKIPPER GDS 101

Connection of IR 201.

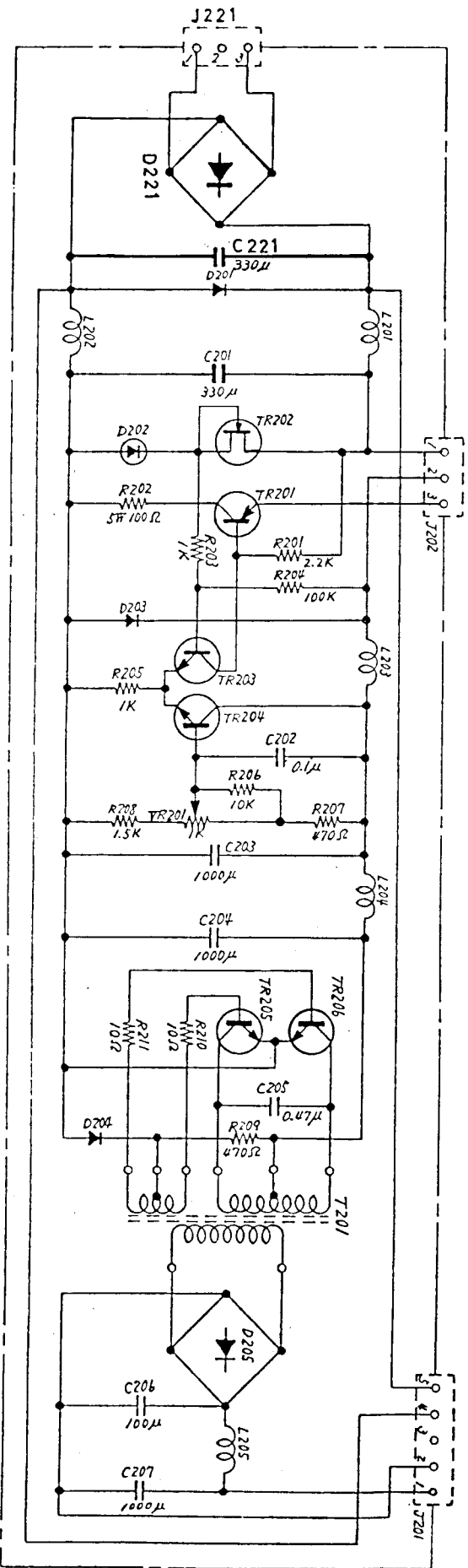
Overall Wiring of IR201&DI202 with AC/DC Power Supply Installed

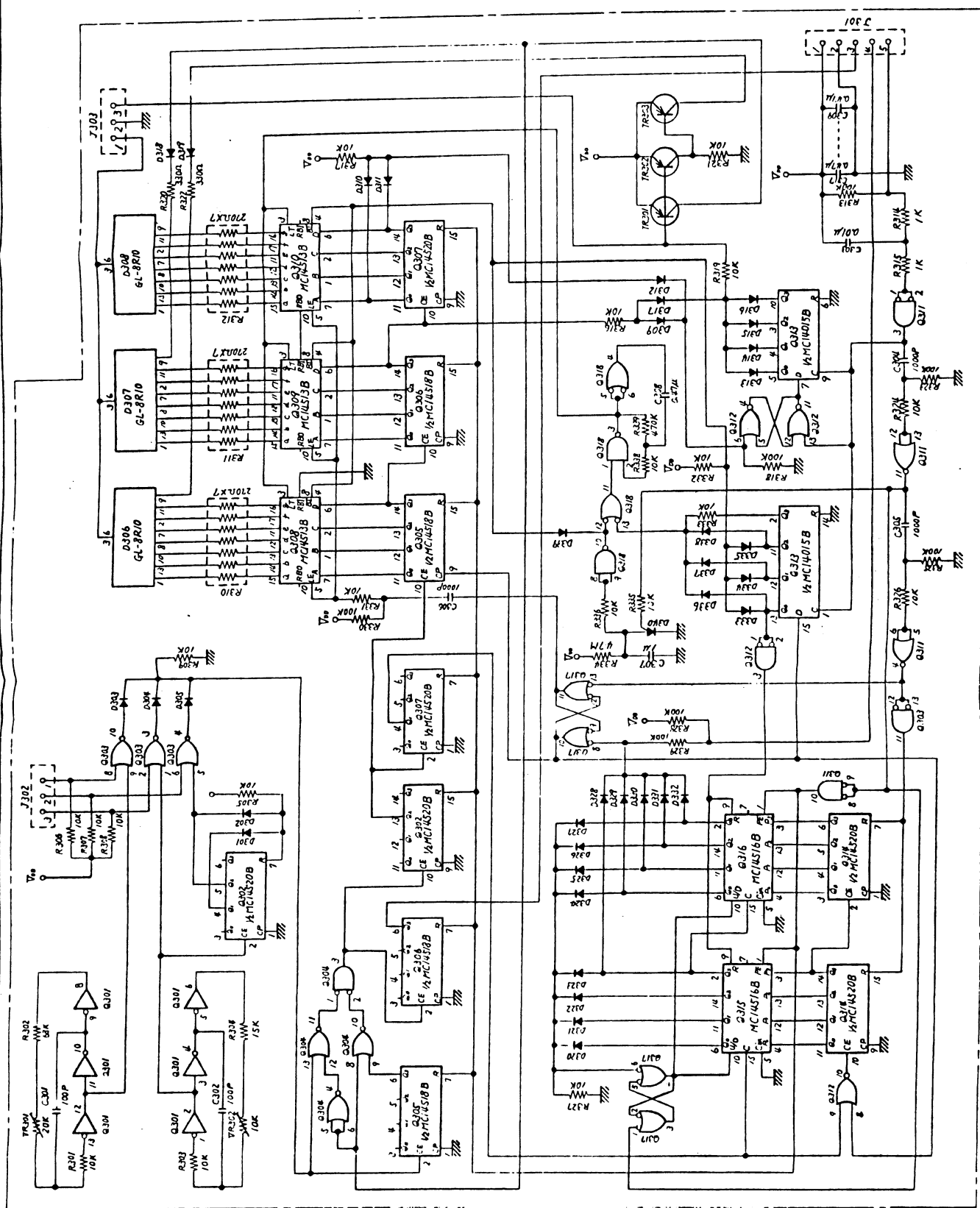


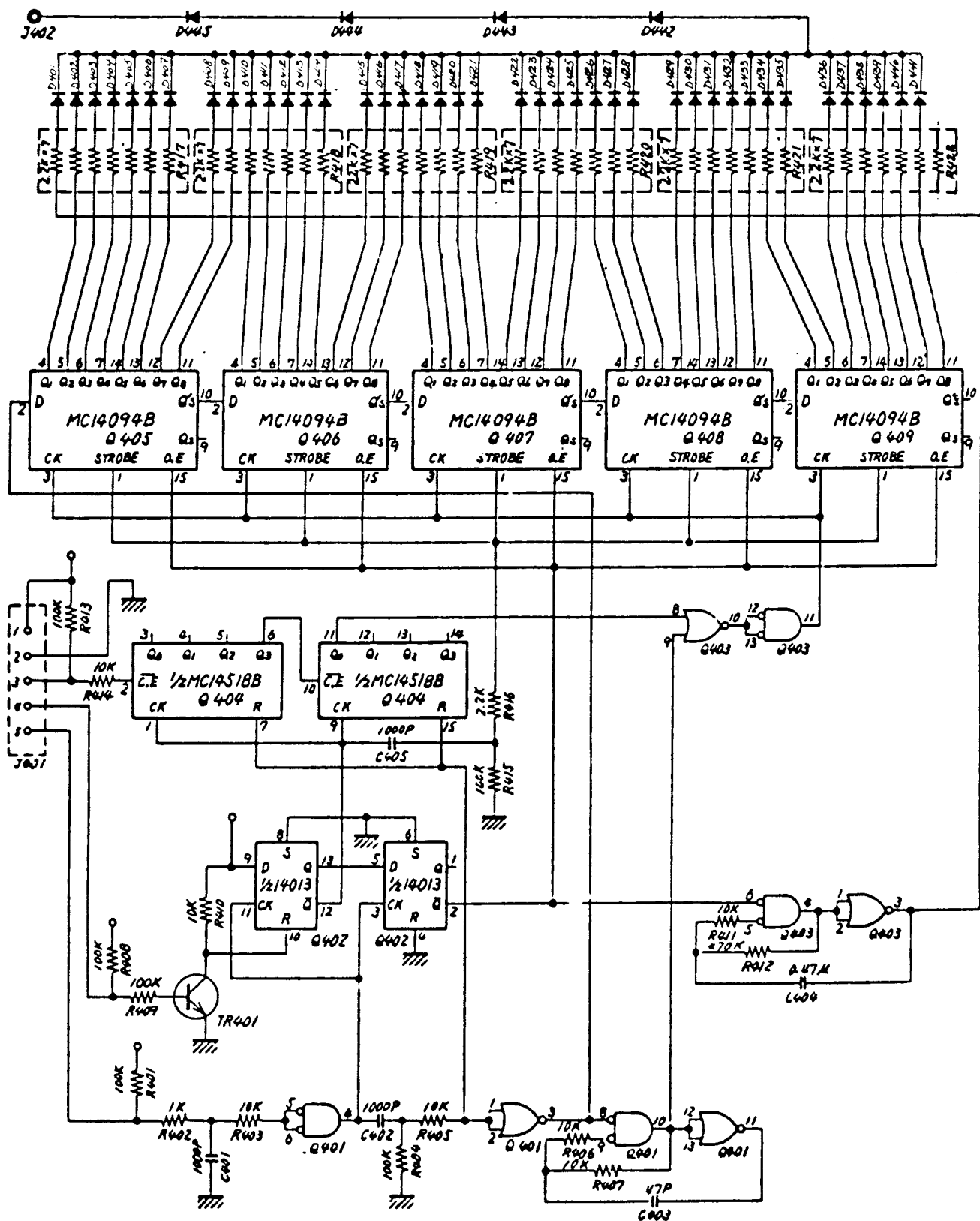
DC Power Supply Circuit of IR201 & DI202



AC/DC Power Supply Circuit of IR201 & DI202

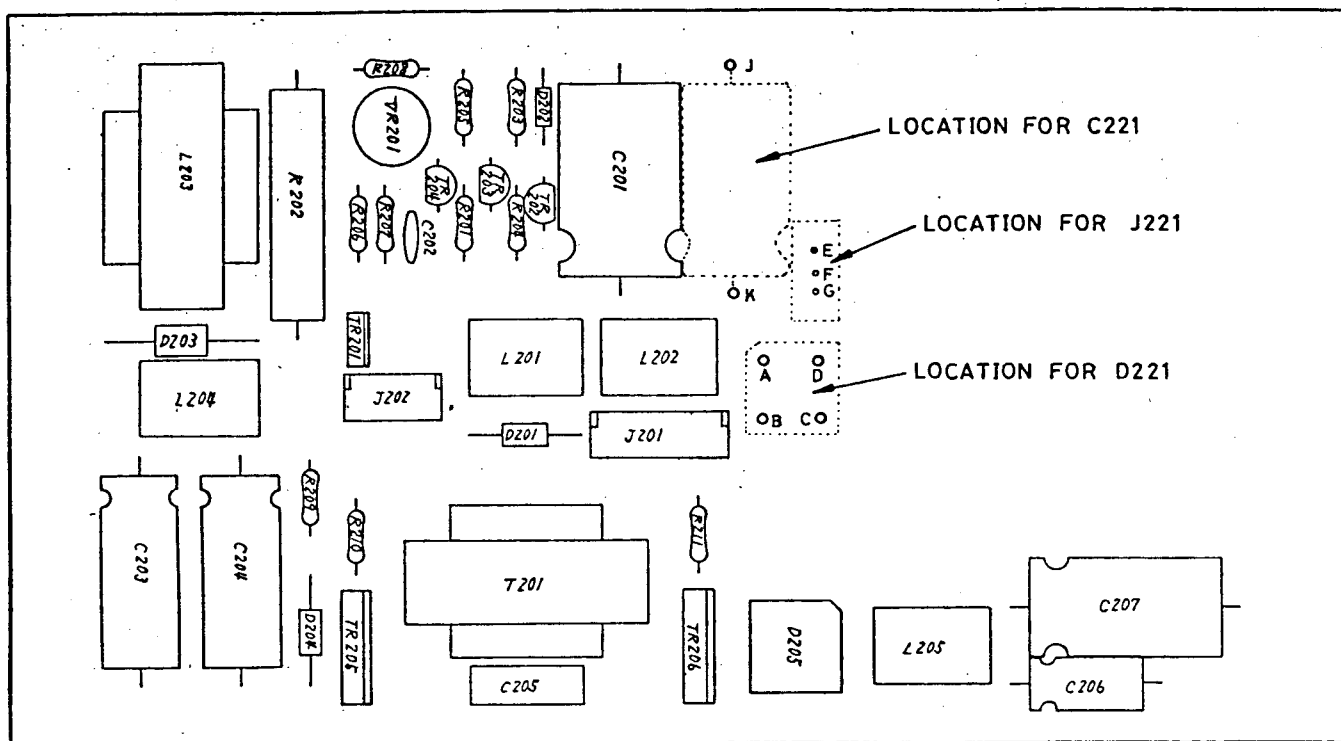




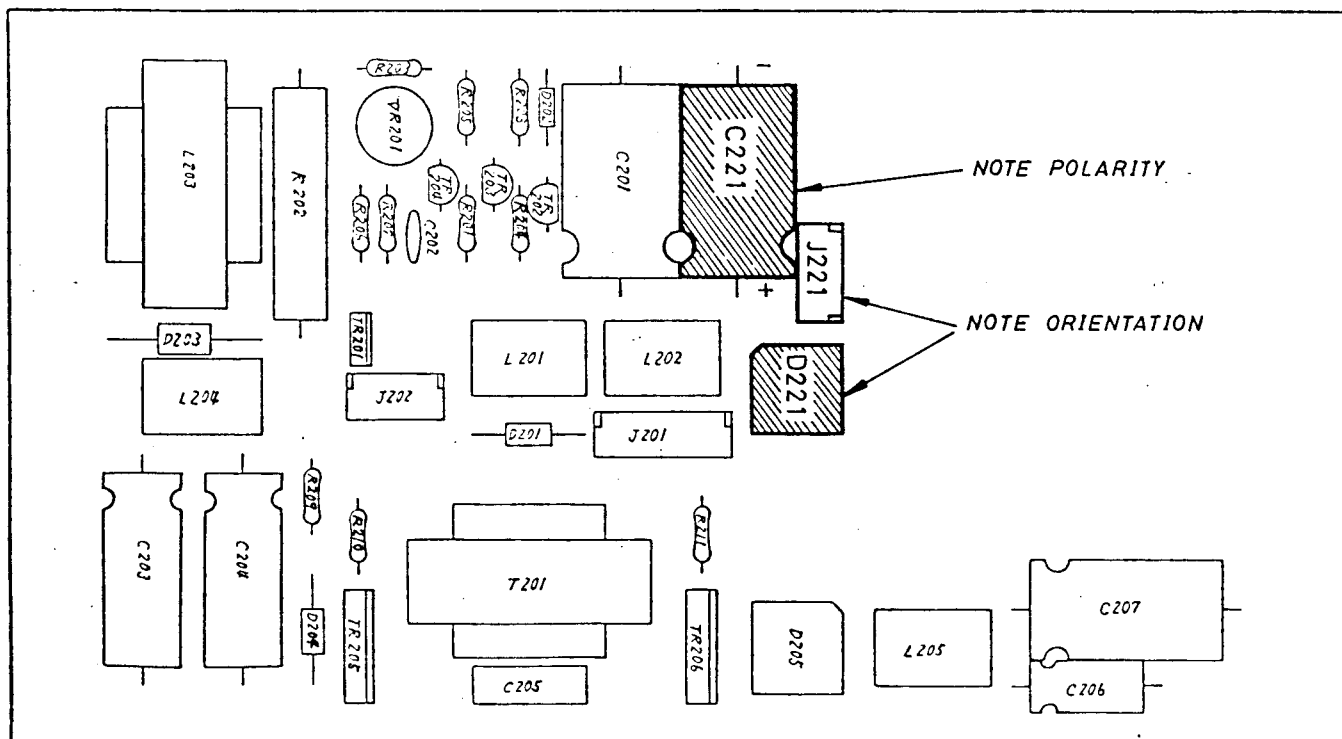


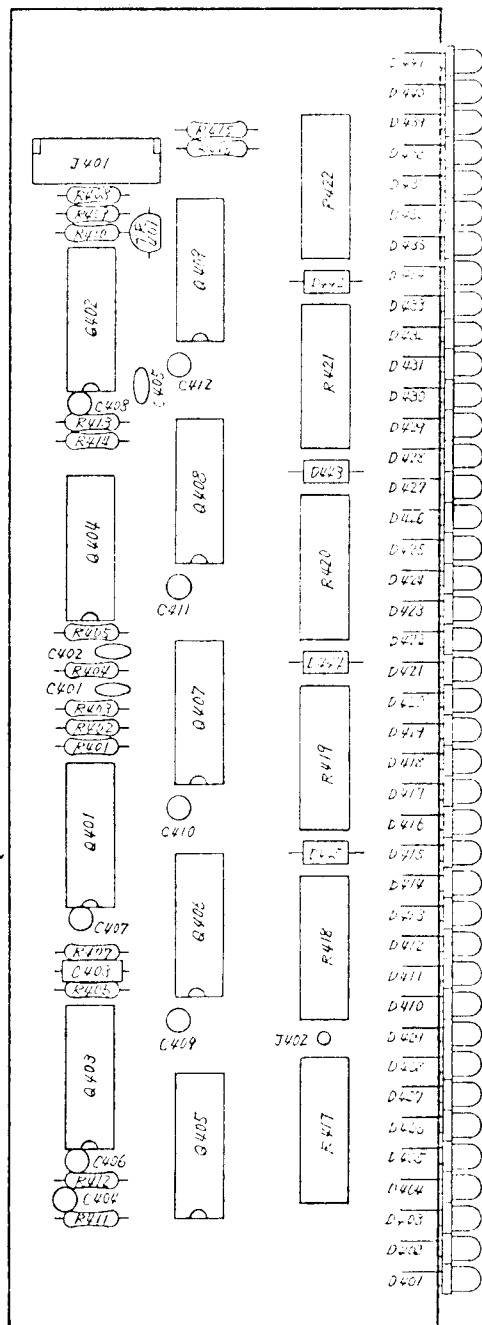
SKIPPER IR201/SKIPPER DI202

Parts Placement for DC Power Supply Board

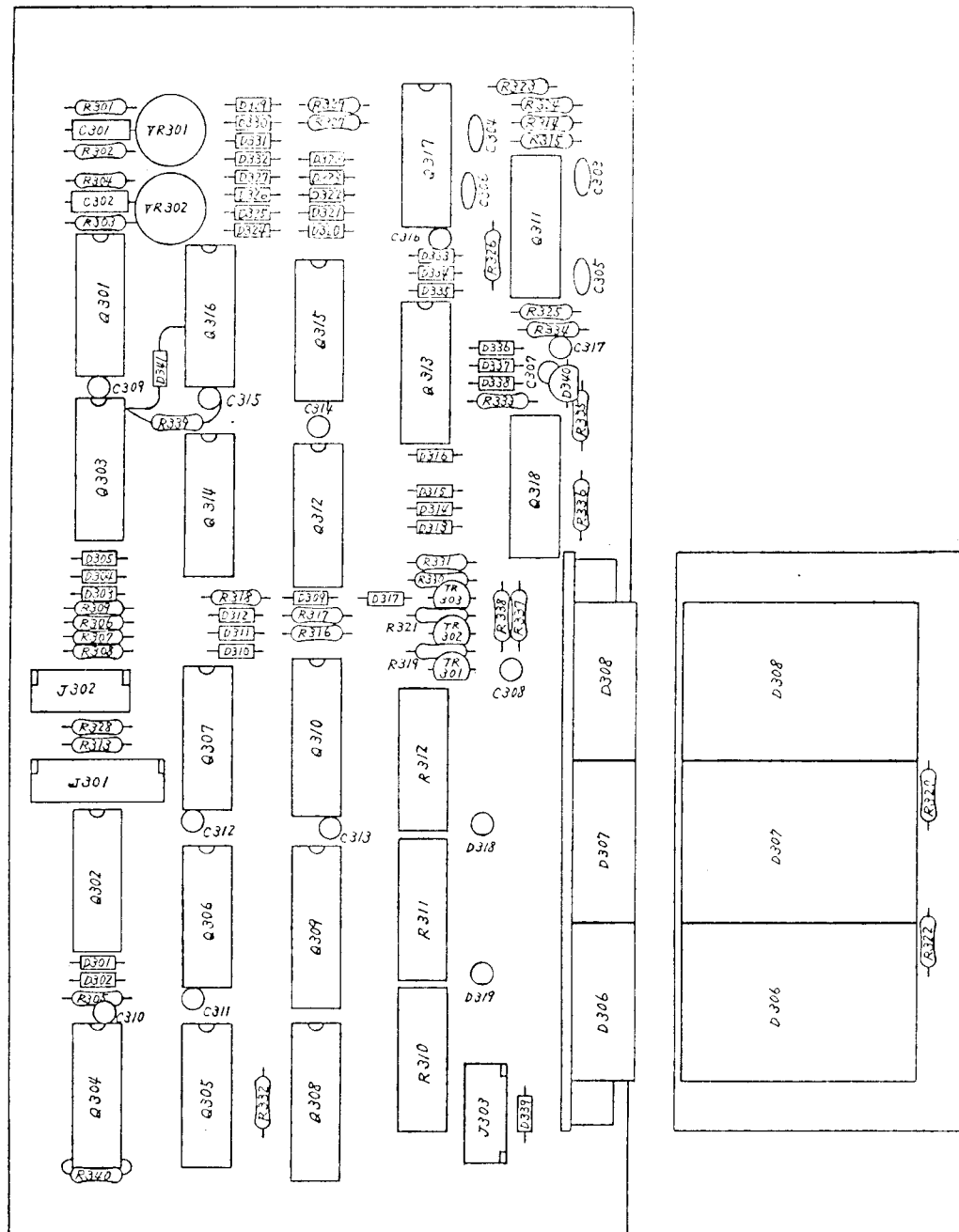


Parts Placement for AC/DC Power Supply Board





Parts Placement/Analog Readout Board
for Simrad IR-201



Parts Placement/Digital Readout Board
for IR-201 & DI-202