LOG LIST

UNIT RC 2000 MODEL TR 200/20 NO 2956

This LOG LIST contains information on modifications of the basic unit, due to Options, Engineering Change Notes, and Field Change Orders.

Do not forget to list all future modifications on this page.

OPTION ECN or FCO No.	DATE of Installation	SIGN	SHORT DESCRIPTION
ECN 728-731			
Option TR 22			RC 4000

RCSL 44 - RT 23

r2000®

PAPER TAPE READER

TECHNICAL MANUAL

TECHNICAL MANUAL FOR

RC 2000

PAPER TAPE READER

MODEL TR 200/20 NO 2956

PUBLICATION NO. RCSL 44-RT 92

VOLUME 1

A/S REGNECENTRALEN FEBRUARY 1970

CONTENTS

1. LIST OF TERMS

Tracks 1 - 5,7,8	Tracks on 5, 7, and 8 tracks tapes
Tracks A - F	Tracks on Olivetti tapes
A0 - A7	Address counter: output address register
B0 - B7	Address counter: input address register
WA	(Write A) delay before writing (monostable multivibrator).
WD	Write current time
WC	Clearing of input registers and increasing B by one (monostable multivibrator)
WB	Inhibit pulse time (monostable)
RA	(Read A) stores the start signal coming from outside, until instructions can be processed (flip-flop). At the same time ready signal out.
RB	Read current time
RC	Strobe and reset for reading from core store
BUSY	Amplified RA
RESET	Controls clearing of core store and address register (monostable)
PO	Paper Out is not set, when there is paper in the tape guide and the reader has been activated by RESET or READ.
READY	Ready signal to the computer.
IN	Register for one character from the photocells
OUT	Register for a character from the core memory read amplifier.
ZFB	Zero from Buffer
OGP	Out Gate Pulse
UP	Set signal for the PO Flip-flop (high representation).
SKIP	Low signal prevents setting of WB and WC and high signal (OV) to activate the motor.
READ	Low signal to reset PO Flip-flop.
IPC	Input punched card (high signal) disconnects ZFB to gate.

2.1 GENERAL DESCRIPTION OF THE RC 2000

RC 2000 is a photoelectric paper tape reader, which by means of a small ferrite core buffer storing 256 characters carries out the function of a stop on the character reader without actually stopping the paper tape. The reader may be considered as consisting of two parts: The paper feed mechanism and the buffer store with its associated control circuits.

When the paper tape is initially loaded into the reader, the buffer is reset by pressing the RESET-button. The feed mechanism will now feed the tape past the photodiode reading head and as each character is read, it is transferred to the buffer location indicated by the input counter which is augmented by one for each character. When at least one character is in the buffer, an output cycle may be initiated. On a character request signal from the controlling unit, e.g. a computer, the character in the location specified by the output counter is transferred to the output register, and the output counter is augmented by one.

The counters are connected to an adding circuit the output of which is equal to the number of characters stored in the buffer. The output of the adder is fed to a digital to analog converter, which controls the speed of the paper feed motor to keep the buffer filled.

The maximum paper speed is app. 5 meters per sec., corresponding to 2000 characters per sec. for normal paper tape and 1650 characters per sec. for the square hole Olivetti tape. The reader has a set of photodiodes for each type. Switching between tape widths is accomplished by means of two switches operated from the front and takes only a few seconds.

The reader can be used as a buffer for outside information sources. In this case the photodiodes are switched off and the input register is controlled by the outside source. The reader has two connectors, one for input and one for output.

All signals for normal operation and for the control of buffering for outside sources are available on these connectors. As the ferrite core buffer cycle is short, it is possible to read out from the core buffer with a maximum instantaneous speed of app. 50,000 characters per second as long as information is available. The average speed depends upon the input source.

The reader is adaptable for several types of computers. The signals for normal operation are brought out to the connectors via one or two printed circuit boards, which are specific for the adaptation, so that changing from one type of computer to another merely involves a change of the boards.

Specifications will be available on separate data sheets. Till now the following interfaces are available:

Bull Gamma 30
CDC 3000
Honeywell 200 and 400
IBM 360 *) and 1400 *)
ICL 1004, 1500, and 1900
Minsk 22 *)
NCR 315
RCA 301
Regnecentralen GIER and RC 4000
SAAB D21 and D22
Siemens 3003 *) and 4004 *)
Telefunken TR4 and TR440
Univac 1004, 1108 *), and 9000 *)
Zuse Z23, Z23R, Z25, Z26, and Z32

*) implying a special control unit or modifications in the computer.

2.2 READING OF TAPE

As tape moves via the photocells, the read amplifiers emit positive pulses. A set of flip-flops read the actual character.

The output from each photocell amplifier is connected in parallel through diodes, representing an AND-gate. On the trailing edge of the signal from this gate (that is, when the actual character has just passed the photocells), WA is triggered, producing a delay of 7.5 μS, before the character will be written into memory, so that any output from the memory in progress can be completed and at the same time WA inhibits the start of new output.

The trailing edge of WA triggers WB (inhibit pulse time control).

Inhibit pulse gate, amplifier, photocell amplifier and associated flip-flops are all mounted on the same printed circuit card.

The leading edge of WB triggers WD, controlling the WRITE CURRENT TIME. The inhibit pulse must have a longer duration than the write current.
The trailing edge of WB triggers WC, clearing the input flip-flop register.

The trailing edge of WC initiates a pulse going to the B address counter, to increase the contents by one.

2.3 OUTPUT FROM THE MEMORY

The leading edge of the Start signal sets the RA flip-flop to one. RA is part of an AND-gate together with decoding of ZFB, WA, WB and RESET signal.

The gates produce an output signal, when RA is one, WA and WB are zero, decoding of adder other than zero, and RESET signal not present.

RA, then is set by the Start signal. No input from the tape is in progress, the store is not empty, and there is no RESET signal.

The output signal is delayed 4 μS, inverted, and triggers RB (monostable), controlling the READ CURRENT TIME in the memory.

The leading edge of RB triggers RC, which gives as well strobe as reset to the output register.

A delay circuit increases the A register by one app. 1.5 μS after the trailing edge of RB. The trailing edge of RB clears RA. The trailing edge of RA is differentiated, and the deriving pulse (50 μS) is amplified and used as a gate pulse for outputs in low representation. Outputs in high representation are not gated.

After 50 μS, READY (15 μS) is generated and the operation is complete.

The BUSY signal follows RA.

RA and BUSY are cleared app. 2 μS after data is ready. Duration of the BUSY signal is app. 9 μS, when data is ready in the memory and it is not necessary to wait to complete writing (or reset).

2.4 RESET

When tape has been placed into the reader, the "RESET" button is pressed. Monostable RESET (app. 17 mS) is triggered. RB is triggered after 3 μS delay, and the trailing edge of RB re-triggers RB after 3 μS delay, and so on, until RESET reverses to zero. RB initiates the count pulse to A as usual.

After app. 17 mS, the entire memory is scanned and cleared off by the read currents. The trailing edge of RESET is differentiated. The pulse thereby derived reset the A and B counters and RB.

If a start signal has come during the process of clearing, RA is set to one, as clearing is inhibited during RESET. After clearing, the store is empty, and the decoding of the adder blocks the gate. The waiting instruction is not processed, until a character is read from the tape to the memory.

The trailing edge of RESET activates the output of the FIRST CHARACTER signal.

2.5 PAPER OUT CONTROL

The PO flip-flop (Paper Out) is normally one, without paper in the reader. It is set to one, on the trailing end of the tape or when the UP button is pressed or the door is open.

At the same time, this signal controls the solenoid that holds down the lid. PO is cleared (with paper in the tape guide and the door closed) at the trailing edge of RESET or when the READ button is pressed. The circuits for writing into the memory can operate only when PO is zero, otherwise the setting of WA is inhibited.

2.6 MOTOR CONTROL

The motor speed is controlled from the outputs of the adder so that the motor speed, up to a certain maximum, is proportional to the difference between the contents of the A and B counters. The outputs from adder positions 2, 3, 4, 5, 6, and 7 are connected to a simple digital converter followed by a linear amplifier. The output voltage from this amplifier is limited by a zener diode, and can be adjusted by a pot. in series to the zener diode to control the maximum motor speed.

Power to the motor is supplied by an emitter follower. This cannot, however, shorten the motor, when input voltage drops to zero, so in order to reduce the braking time, a ground connected emitter circuit supplies approximately zero volts through a germanium power diode.

2.7 LAMP REGULATOR

In order to assure constant light intensity independant of changes in the lamp, the lamp supply is regulated by feed-back from a photocell of the same type as used for reading. The output transistor of the regulator amplifier is situated in the power supply.

2.8 THE READ BUFFER

The core memory has two planes, divided into four sections. It has double wiring, that read and write currents run through separate wires. Currents are set by 30 Ω , 1% resistors and the voltage difference between the - 8 and - 1.6 V power supplies.

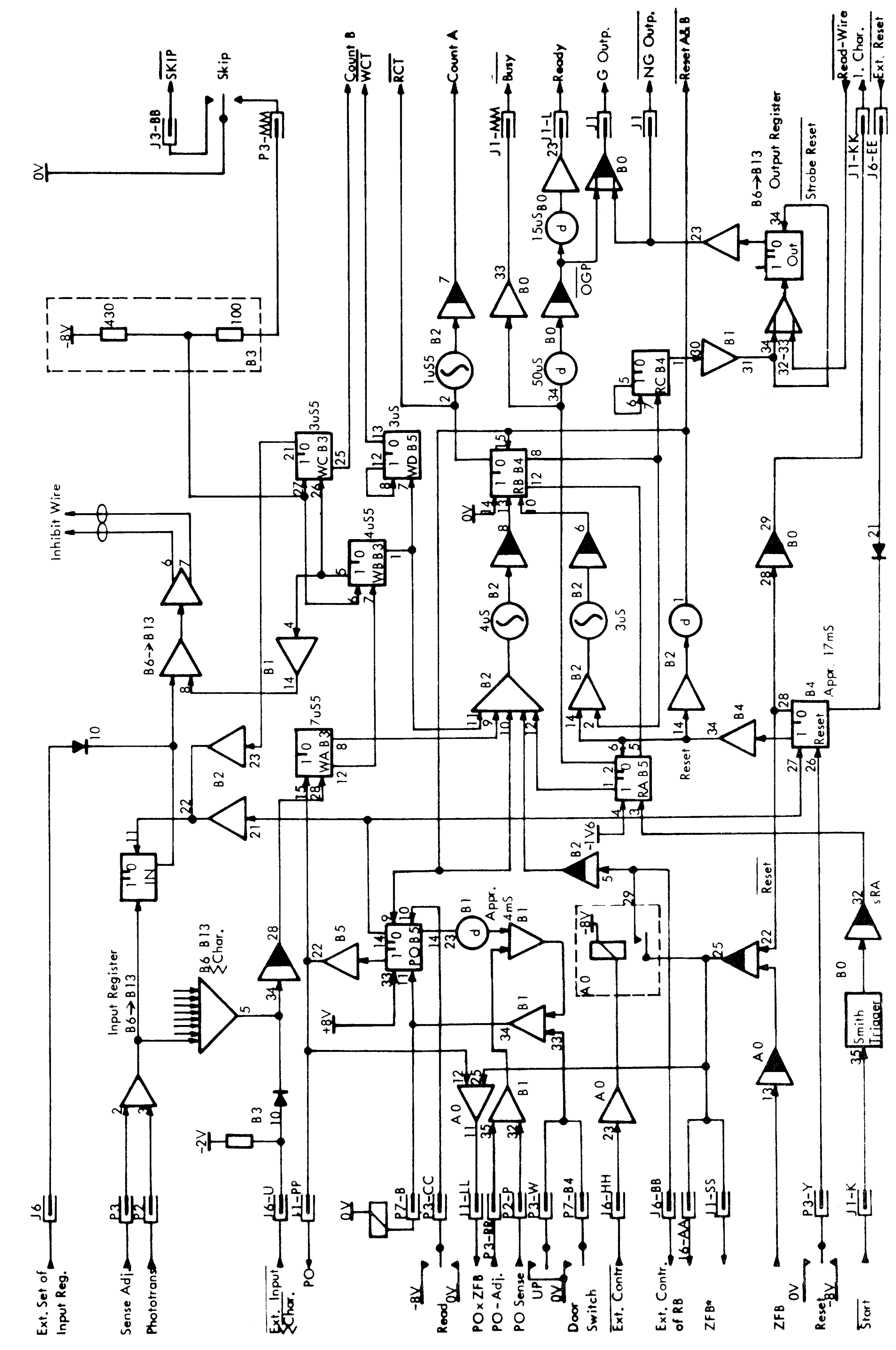
2.9 PHOTOTRANSISTORS

The phototransistors are NPN transistors without base connections. Forward biased they work as photodiodes. If reversed biased they are cut off. There is one set for 5, 7, and 8 track tapes and another set for Olivetti tape, as well as 3 transistors to check paper out control.

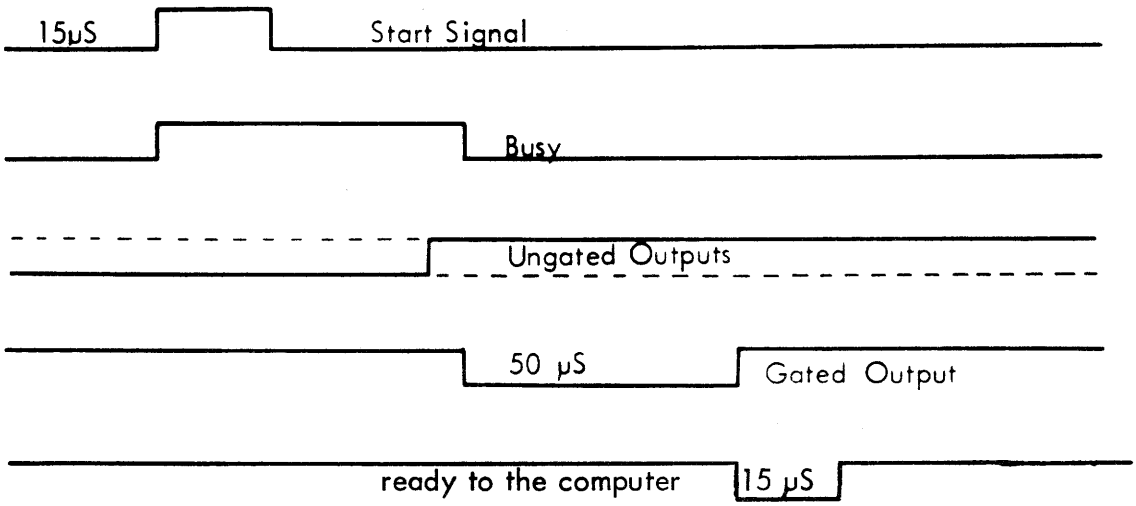
2.10 READ AMPLIFIERS

The output from the phototransistors are amplified in a two stage amplifier with positive feedback.

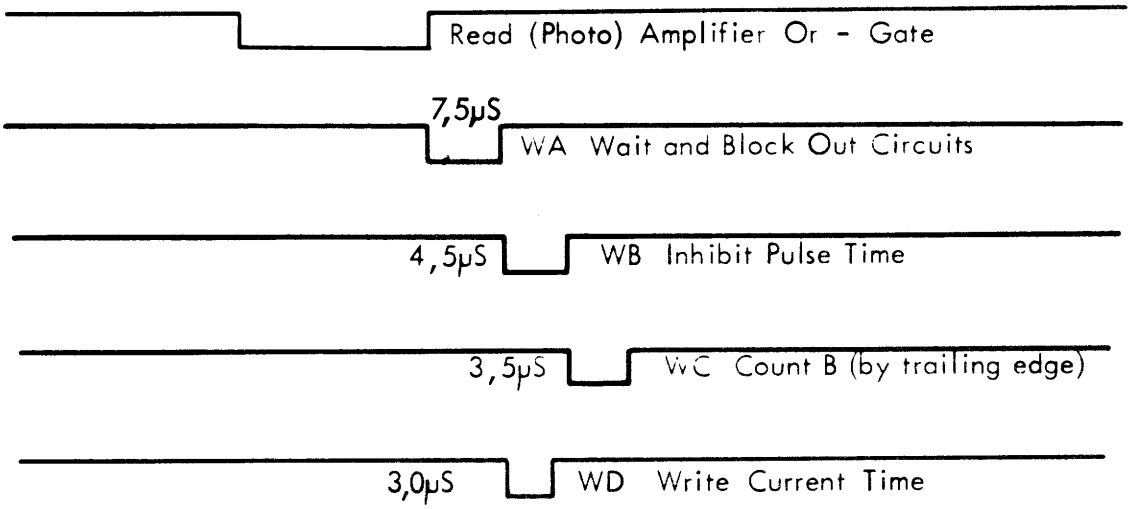
Biasing of the amplifiers is accomplished by means of two potentiometers in the push button unit (Adjustment of the current flowing through photo-transistors).


SKIP
Skip
0V
Count B
WCT
RCT
Count A
Busy
Ready
G Outp.
NG Outp.
Reset A& B
Read-Wire
1. Char.
Ext. Reset
Output Register
Strobe Reset
Inhibit Wire
Input Register
B6→B13
Smith Trigger
Ext. Set of Input Reg.
Sense Adj.
Phototrans.
Ext. Input Char.
PO
Read
PO x ZFB
PO - Adj.
PO Sense
Door Switch
Ext. Contr.
Ext. Contr. of RB
ZFB*
ZFB
Reset
Start

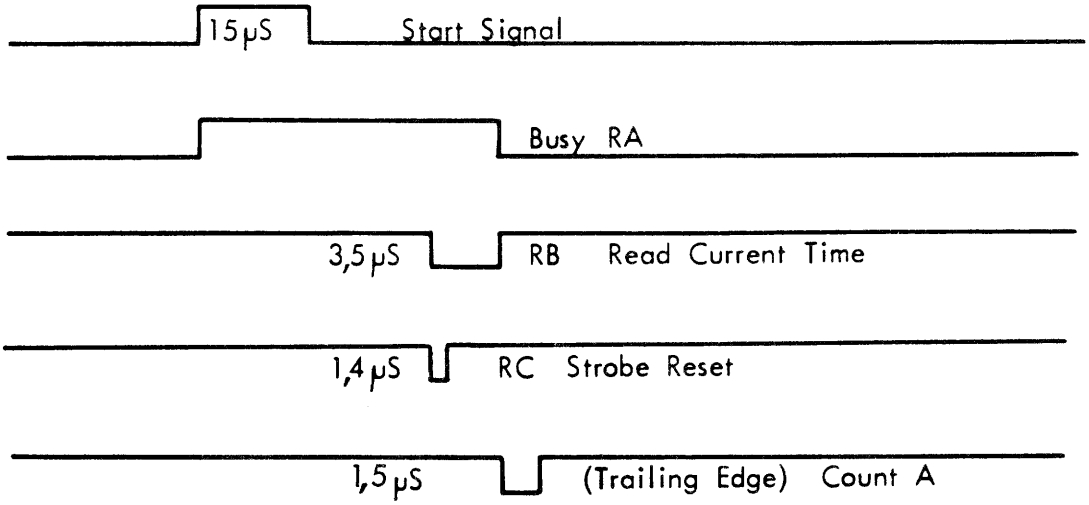
IN-OUT SIGNALS



INTERNAL IN TIMING



INTERNAL OUT TIMING



RC2000 Timing Scheme

3. POWER SUPPLY

3.1 GENERAL DESCRIPTION

The power supply provides: - 24 V, - 8 V, - 1.6 V and + 8 V stabilized as well as - 7 V for the lamp and - 17.2 V for the motor, both regulated. A description of these circuits and the operation of the power supply is as follows.

3.2 PRIMARY SIDE

INPUT VOLTAGE

The input transformer has taps for 115 V, 127 V, and 220 V (± 10%), 50 - 60 Hz mains voltage. The input transformer is normally connected for 220 V, the input terminals have to be resoldered for any other voltage. Important: Disconnect mains plug when soldering.

GENERAL CIRCUIT

The primary side is fused with 2 A after the dual pole mains switch. Two 0.1 uF capacitors and two 3.8 mH Coils (L-C filter) suppress mains noise.

BLOWER UNIT

The blower unit works on 220 V and must always be connected across the 220 V primary winding.

3.3 SECONDARY SIDE

GENERAL

The secondary side of the transformer has 3 windings supplying appr. 7.5 V, 27.5 V, 2 x 14.5 V.

FUSES

Each of the output windings is fused with 6A, (27.5 V with 3A)

LAMP SUPPLY

BRIDGE RECTIFIER

The lamp supply consists of a bridge rectifier in conjunction with a smoothing capacitor C1 providing - 7 V on the negative side of the bridge. The positive side has ground potential.

REGULATOR CIRCUIT

The regulator circuit employs Q3 in parallel with two 4 Ohm resistors. It provides constant light intensity. (see also chapter 2.7)

MOTOR SUPPLY

BRIDGE RECTIFIER

The motor supply consists of a bridge rectifier in conjunction with a capacitor C2 providing - 17.2 V on the negative side and appr. the same positive voltage on the other side.

REGULATOR CIRCUIT

The regulator circuit employs the transistors Q1 and Q2 and diode CR 1.
The output voltage is regulated according the contents of the adder.
(see also chapter 2.6)

CARD SUPPLY

BRIDGE RECTIFIER

The card supply consists of a bridge rectifier providing - 33 V on the negative side with C3 as smoothing capacitor. The positive side of the bridge has ground potential.

- 24 V line

Transistor Q5 provides a stabilized voltage of - 24 V by means of 3 zener diodes (8 V each) connected to the base of Q5.

- 8 V line

Transistor Q5 maintains a constant voltage of - 8 V by means of a 8 V zener diode connected to its base.

- 1.6 V line

Two silicone diodes (CR 2 and CR 3) with a defined voltage drop of 0.8 V each connected between ground and negative potential supplying - 1.6 V.

+ 8 V line

+ 8 V are taken directly from the positive side of the motor supply bridge rectifier via a 25 Ohm resistor and stabilized by a 8 V zener diode connected to ground potential on the other side.

4.0 BASIC SIGNAL SPECIFICATIONS

4.1 BUFFER EMPTY (ZFB) (CON. 1 - SS and CON. 6 - AA)

This signal is low to indicate the "buffer empty" situation, transients of short duration occur when counting in input and output counters takes place.

Signal levels at no load: true - 8V nominal
false - 0,3V nominal

Rise and fall time at no load: max. 1 µS
Circuit: Grounded emitter, pnp, 1 k ohm to - 8V.

4.2 PAPER OUT AND BUFFER EMPTY (CON. 1 - LL)

This signal is low if the buffer is empty, and the paper out FF is set, transients of short duration occur when counting in input and output counters takes place.

The paper out FF is set on the trailing edge of the paper tape. It is reset when depressing READ or RESET if paper tape has been properly placed in the tape path.

Signal levels at no load: true - 8V nominal
false - 0,3V nominal

Rise and fall time at no load: max. 1 µS
Circuit: Grounded emitter, pnp, 1 k ohm to - 8V.

4.3 DATA OUTPUT (CON. 1 - A - B - C - D - E - F - H - J)

This is a non-gated output sending the information in high representation.

Signal levels at no load: hole punched: - 0,5V nominal
no punching: - 7V nominal

Rise and fall time at no load: max. 1 μS

Circuit: Emitter follower, npn, 1 k ohm to - 8V.

4.4 8 TRACK TAPE SELECTED (CON. 1 EE)
7 TRACK TAPE SELECTED (CON. 1 FF)
5 TRACK TAPE SELECTED (CON. 1 HH)
OLIVETTI TAPE SELECTED (CON. 1 JJ)

These lines are grounded when the signal is true, and are left floating on false. However, in some special applications one or more of these signals are used in the interface circuits. This will change the false condition as defined in the special interface description.

4.5 SIGNAL GROUND (CON. 1 - N - R - T - V - X - Z - BB - DD - TT)

4.6 PROTECTIVE GROUND

An internal connection in the power supply connects the signal ground to the frame. This connection should be removed if protective ground from the power supply is required to be connected to the frame via the power plug.

4.7 SPECIFICATIONS FOR INPUT TO THE RC 2000 BUFFER

The RC 2000 ferrite core buffer may be used to buffer input signals from other devices. When used in this mode the photocell read head and the motor are electrically disconnected by a relay, controlled via the input connector. Also controlled via this are the following signals:

Clear.	
Input Data 1 .... 8:	sets the corresponding input register flip-flop when high.
Data Strobe:	the character set in the input register is transferred to the core buffer on the trailing edge of this signal.

Output Disable: disables output from buffer.

The RC 2000 returns a signal going high when more than 128 characters are stored in the buffer, and a signal going low when the buffer is empty. Also + 8V and - 8V are available at the interface to drive small loads.

4.8 CONTROL SIGNAL (CON. 6 - HH)

This wire is normally left floating. In order to switch the reader to external control the wire must be shortened to ground.

4.9 CLEAR TRIGGER (CON. 6 - EE)

A positive pulse will trigger reset of the buffer in the same way as the RESET button. It takes app. 17 mS to clear the buffer store.

Signal levels: true: 0V nominal
false: - 8V nominal

Duration: min. 10 μS, max. 5 mS.

4.10 INPUT DATA 1 to 8 (CON. 6 - A - C - E - H - K - M - P - S)

A positive pulse or level will set the input register flip-flop. Must be false during normal operation.

Signal levels: true: 0V nominal
false: - 8V nominal

Duration and rise time not specified.

4.11 DATA STROBE (CON. 6 - U)

This signal may e.g. be the logical sum of the data signals. Buffering will take place on the trailing edge of this signal. Must be false during normal

operation.

Signal levels: true: 0V nominal
false: - 8V nominal

Duration and rise time not specified.

4.12 OUTPUT DISABLE (CON. 6 - BB)

When low this signal disables output of information from the buffer.

Signal levels: true: more neg, than - 2V or left floating
false: 0V nominal

In normal operation Output Disable is connected to ZFB by a relay contact inside the RC 2000. Circuits attached must not disturb this function.

4.13 128 CHARACTERS STORED (CON. 6 - CC)

This signal indicates that more than 128 characters are stored in the buffer.

Signal levels at no load: true: - 0,3V nominal
false: - 8V nominal

Rise and fall time: max. 1 µS
Circuit: Grounded emitter, pnp, 2 k ohm to - 8V.
Load: max. 1 mA.

4.14 BUFFER EMPTY (CON. 6 - AA and CON. 1 - SS)

This signal indicates that the buffer is empty.

Signal levels at no load: true: - 8V nominal
false: - 0,3V nominal

Rise and fall time at no load: max. 1 µS

Circuit: Grounded emitter, pnp, 1 k ohm to - 8V.

4.15 SIGNAL GROUND (CON. 6 - B - D - F - J - L - N - R - T - V - NN - SS - TT)

4.16 + 8V (CON. 6 - PP) and - 8V (6 - MM)

from the internal power supply, may be loaded with max. 50 mA.

5 MECHANICAL ADJUSTMENTS AND CHECKS

5.1 ADJUSTMENT OF THE PRESSURE LID

Switch power on and close the reader door,
untighten the armature on the pressure lid,
place three layers of paper tape in the tape guide,
now press the lid down against the layers
and tighten the armature in that position.

5.2 CHECK OF THE PINCH - ROLLER - PRESSURE SPRING

This check ensures sufficient friction between the paper tape and tape drive capstan to prevent unneccessary wearing of the capstan.

Switch power on and close the reader door,
remove tension spring
cover the photocells with tape,
press now the armature down with a spring balance until the armature is activated by the magnet.
Now the spring balance should indicate between 800 g and 1100 g.
If the pressure is outside these margins,
replace the spring.
Ensure that the motor stops completely when blocking the tape.
Insert the tension spring.

5.3 CHECK OF THE PRESSURE LID TENSION SPRING:

Remove spring from the armature,
press the spring down with a spring balance to the released armature.
Now the spring balance should indicate max. 800 g.

5.4 CHECK OF THE MAGNET

This check ensures that the pressure lid is not released too easily, e.g. when reading spliced tapes.

Switch power on and close the reader door.
Place tape covering the photocells
press the lid down.
Press the armature up with a spring balance until the magnet releases.
Now the spring balance should indicate a min. of 1500 g.

If not, check whether,

the tension of the pressure lid spring is more than 800 g.
there is dirt on the surface of the armature or on the magnet,
the drive circuits of the magnet are faulty,
the tension of the pinch roller spring is within the margins
800 g and 1100 g.

5.5 PHOTOTRANSISTORS ADJUSTMENTS

5.51 SIDE ALIGMENT

Switch power on and close the reader door,
place a properly punched all hole tape loop in the reader,
insure that all phototransistors appear in the center of tape holes.
Use the supplied prism and adjust the photosense assy by means of the adjustment screw.

5.52 AMPLIFIER

The output of the amplifiers should have a mark to space ratio of 70/30, as shown in Fig. next page.

5.53 MINOR ADJUSTMENTS

If no more than one of the amplifiers shows incorrect output, it should be adjusted.

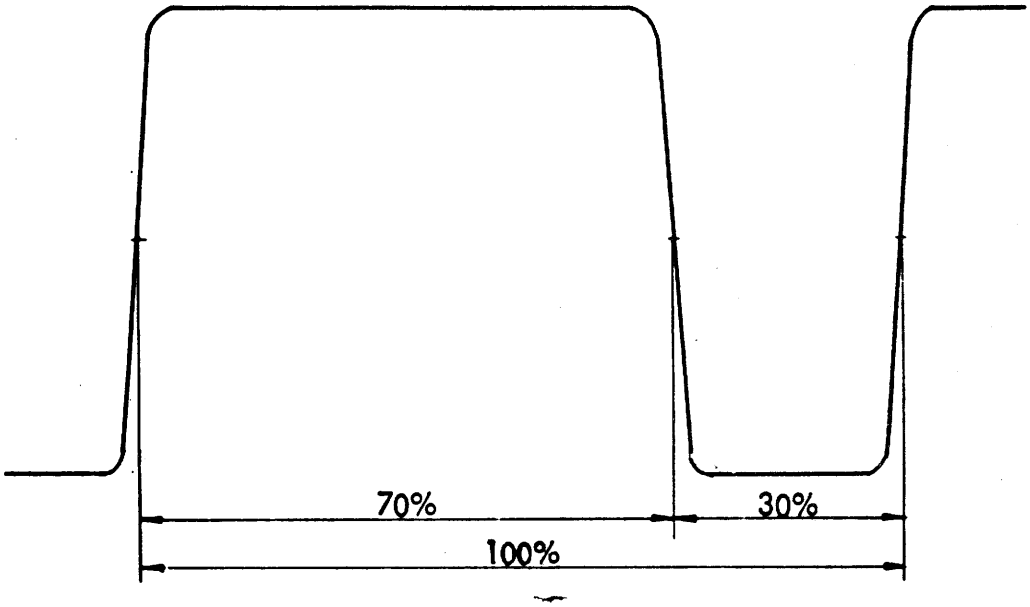
If all the amplifiers give uniformly incorrect output, the light intensity should be adjusted.

5.54 OVERALL ADJUSTMENTS

After a photocell or a lamp circuit has been replaced, an overall adjustment should be done as follows:

Adjust the light to minimum intensity.
Turn the two Paper Out Potentiometers to minimum sensitivity (fully CW).
Adjust all photocell potentiometers, while measuring on testpoints 1 - 8 with an oscilloscope, and adjust the appropriate channel to appr. - 15 V.
Select 8-track tape and place a tape-loop in the tape reader.
Press RESET, increase light intensity, until the tape stops running.
Press SKIP, and find with oscilloscope the track, causing the stop.
Adjust light intensity until this track shows a mark to space ratio 70/30.
Adjust the other tracks to the same ratio by means of the potentiometers.
Select Olivetti tape, place loop in the reader and adjust all tracks to a ratio 70/30.

Note: If a ratio of 70/30 cannot be achieved, light intensity has to be adjusted.
In this case all 8 track channels have to be readjusted.



5.5.5. ADJUSTING THE PAPER OUT CONTROL

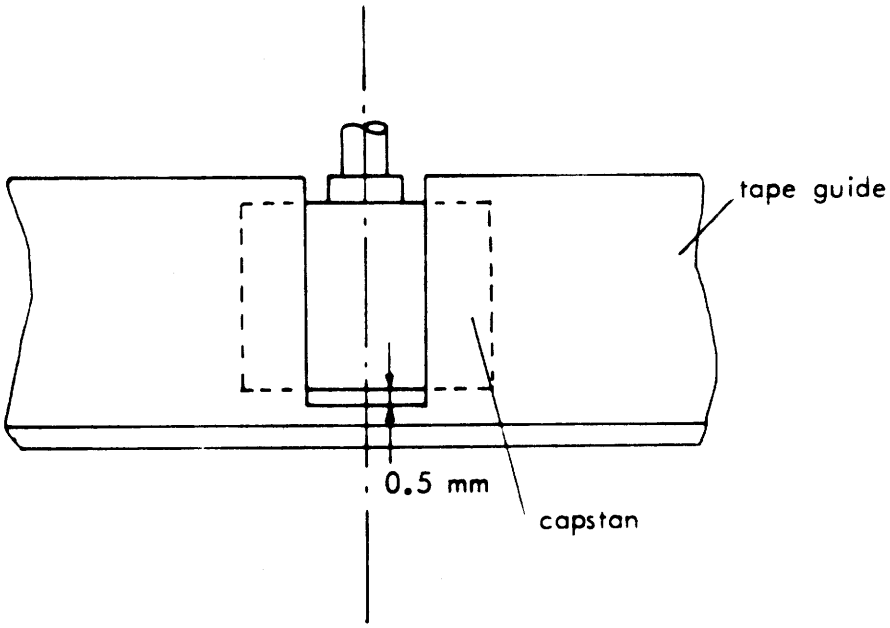
1. Adjustment is made separately for 8-track and for 6-track tapes. Place a tape in the tape guide. Pull the tape through or advance it with SKIP, adjusting the potentiometer CCW, until the lid opens.

2. With no tapes in the reader, turn the potentiometer CW, counting the number of turns, until the lid is held down by the solenoid. Turn the potentiometer CCW halfway back to the point of transition located in step 1.

Note: Use the most translucent tape employed in the reader.

5.6 Replacement of capstan

When replacing the capstan care must be taken to have about 0.5 mm between the end of the capstan and the tape guide opening opposite (seen from above).



6. CLEANING INSTRUCTION FOR VILEDON FILTERS

ABSTRACT: Instruction for cleaning of air-filter.

6.1 FILTER TYPES

At present P 15/500 filters are used in all units.
In ALEC blower units A 3/300 filters are used; they cannot be cleaned.

6.2 CLEANING FREQUENCY

Clean the filters as often as the instruction for the unit indicates.
If not otherwise mentioned, clean every third month.
If the premises are particularly dusty, clean more often.

6.3 CLEANING METHODS

Any one of these three methods will be satisfying:

1. Wash the filter in lukewarm water (up to 40°C), to which detergent may be added. Spray the filter with a tube. Do not press the end of the tube as the filter can not take a jet of water.
   Do not wring the filter. Spray on the fine, smooth side of the filter.
   After washing, hang the filter up to dry.
2. Clean the filter with compressed air, blowing from the fine, smooth side.
3. Vacuum-clean the filter from both sides.

6.4 REINSERTION

Reinsert the filter that air enters from the coarse, wooly side and leaves from the fine, smooth side of the filter.

6.5 REPLACEMENT

Replace the filter after five cleanings.

RC 2000 Paper Tape Reader

Contents

Wiring Schedules

CENTRALEN

REGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision

PUSH BUTTON UNIT (FRONT VIEW)

Drawing No

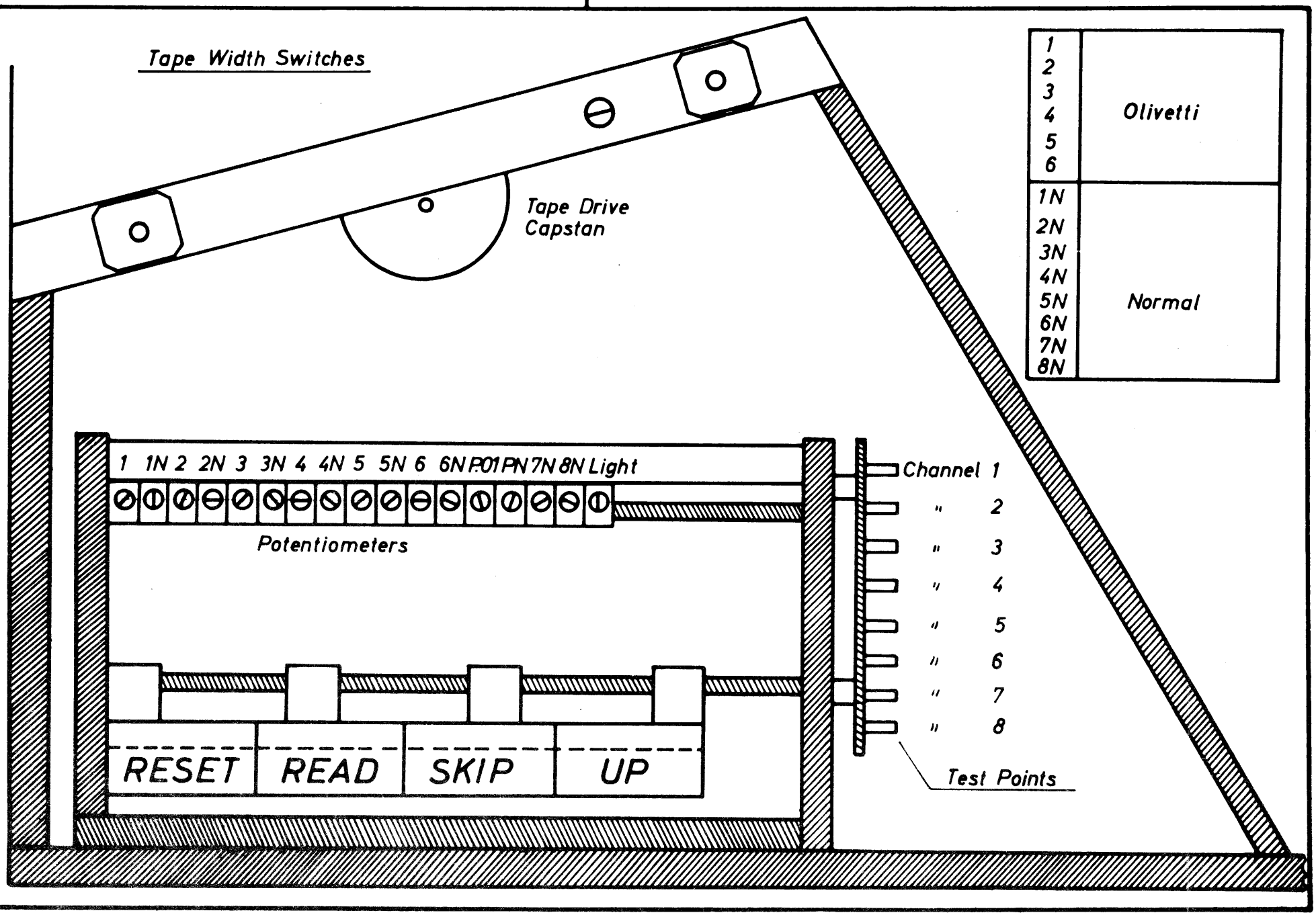
Drawn by I.K. 10.8.1967

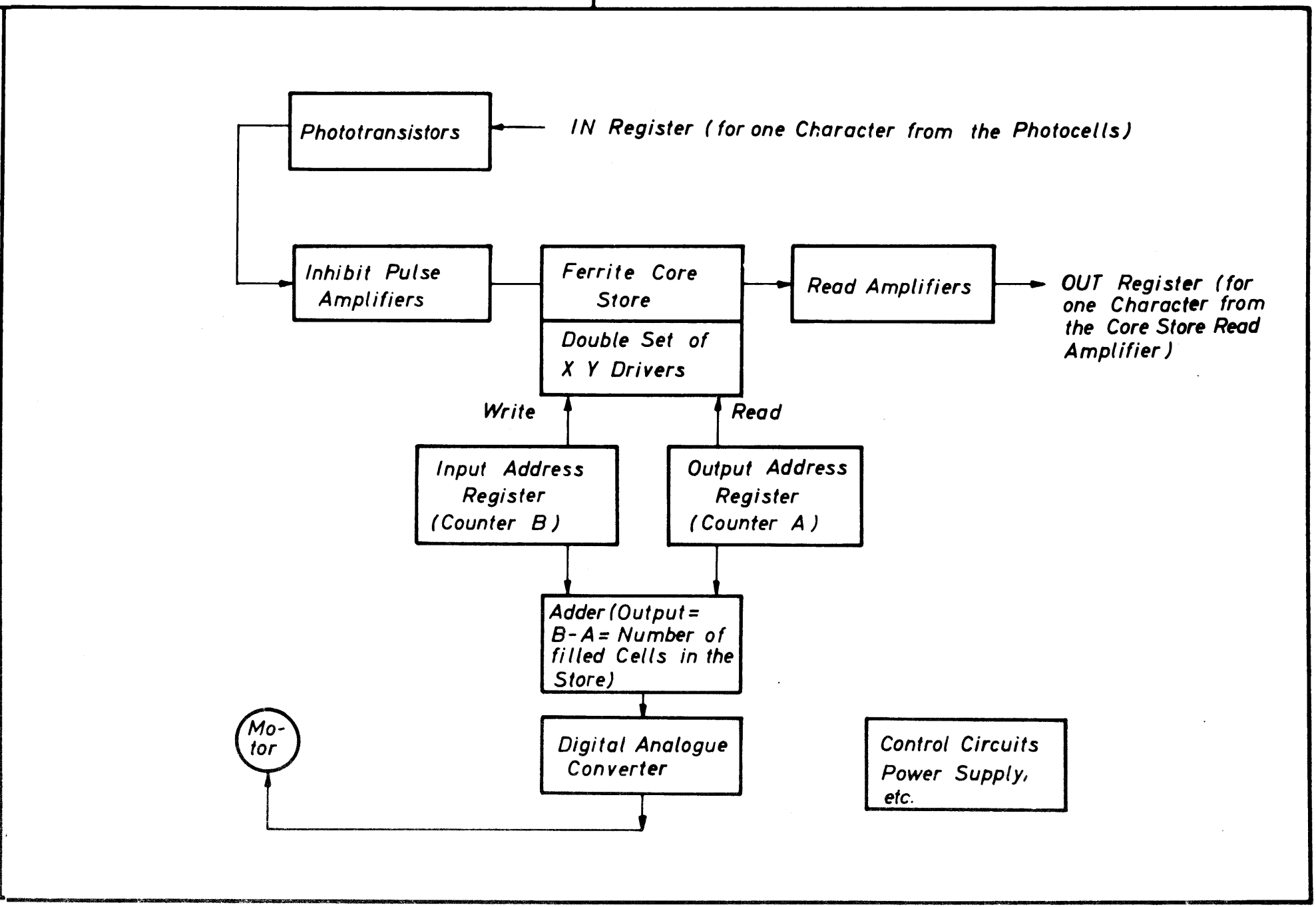
Checked F.E. 1.9.67

1 Sheets

Sheet 1

Page 1





CENTRALEN REGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision

PRINCIPLE OF THE READER

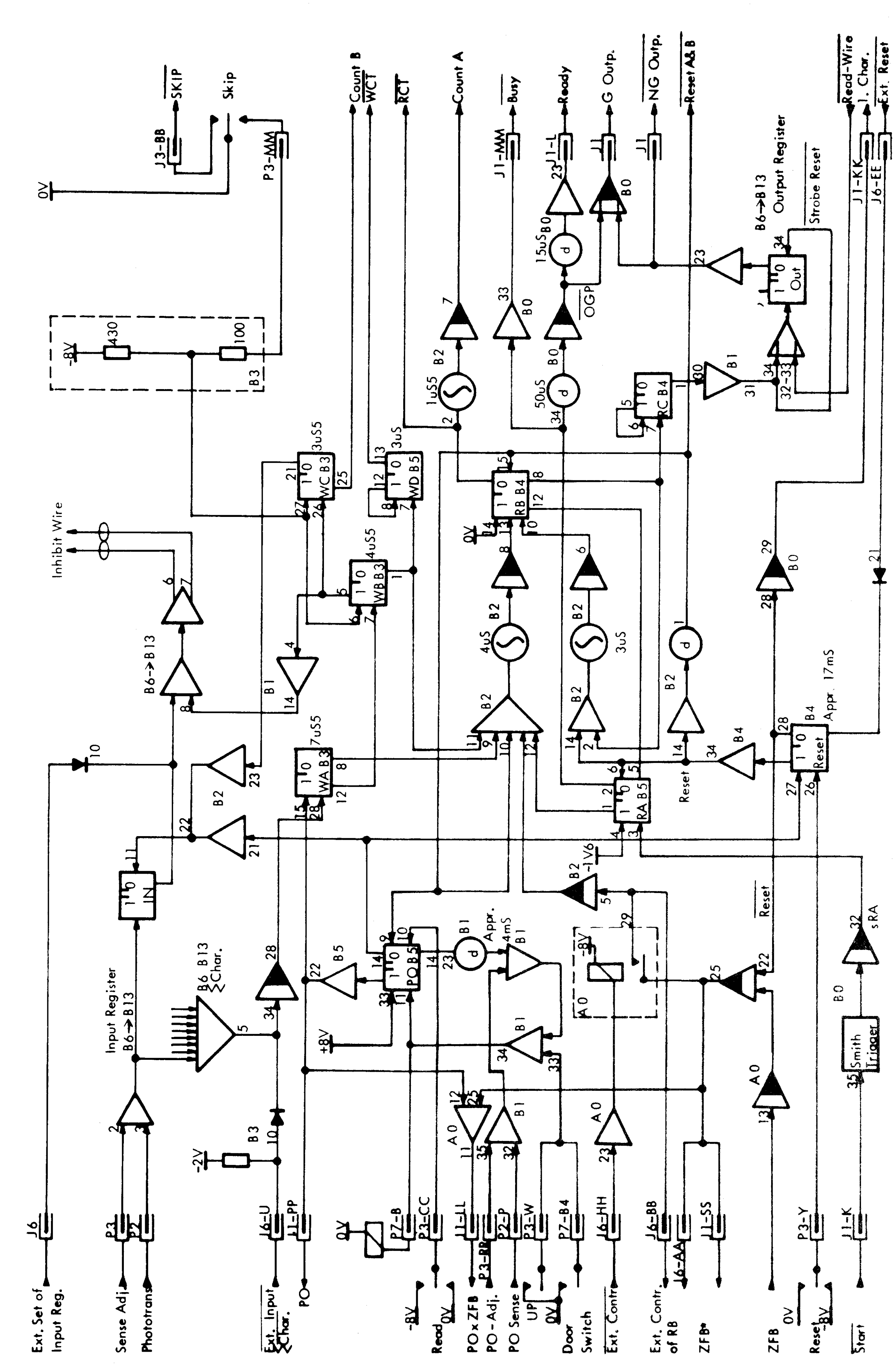
Drawing No

Drawn by I.K. 10.8.1967

Checked F.E. 1.9.67

1 Sheets

Sheet 1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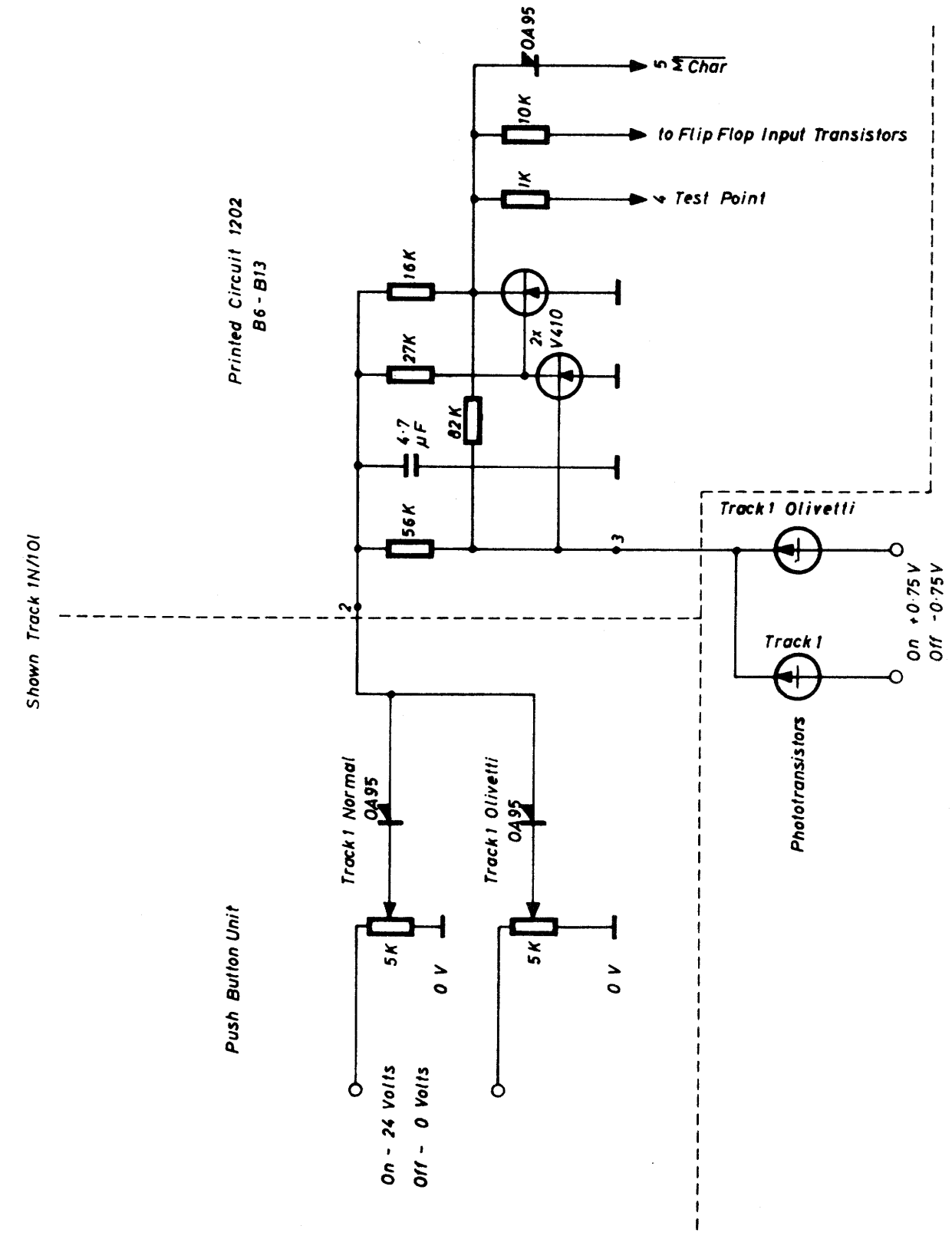
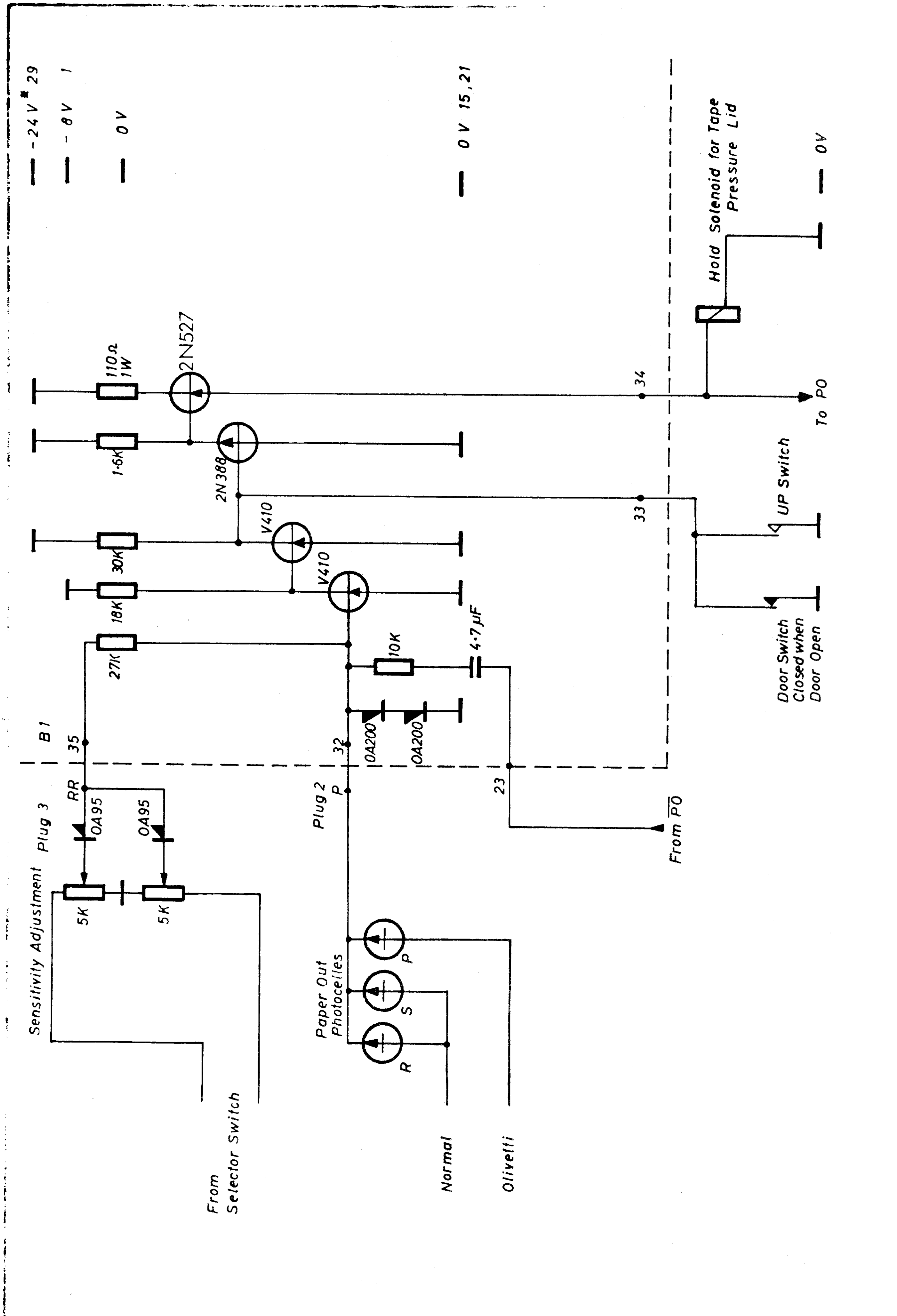
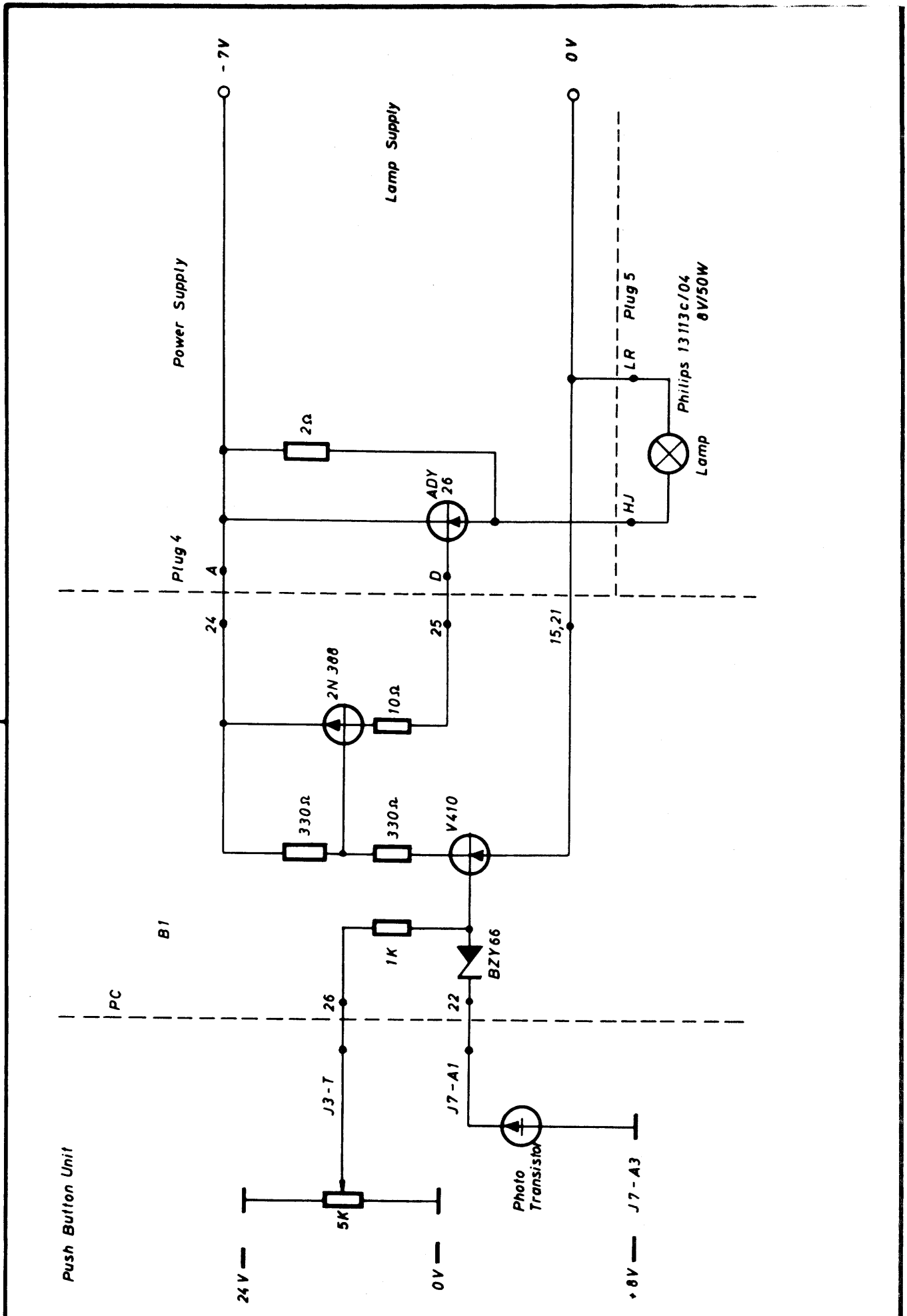
Sense Adj.
Phototrans.
Ext. Input Char.
PO
-8V
Read
0V
PO x ZFB
PO - Adj.
PO Sense
UP
Door Switch
Ext. Contr.
Ext. Contr. of RB
ZFB
Reset
Start
Input Register B6→B13
Output Register B6→B13
Strobe Reset
Inhibit Wire
Skip
SKIP
Count B
WCT
RCT
Count A
Busy
Ready
G Outp.
NG Outp.
Reset A & B
Read-Wire
1. Char.
Ext. Reset
Smith Trigger
sRA
OGP



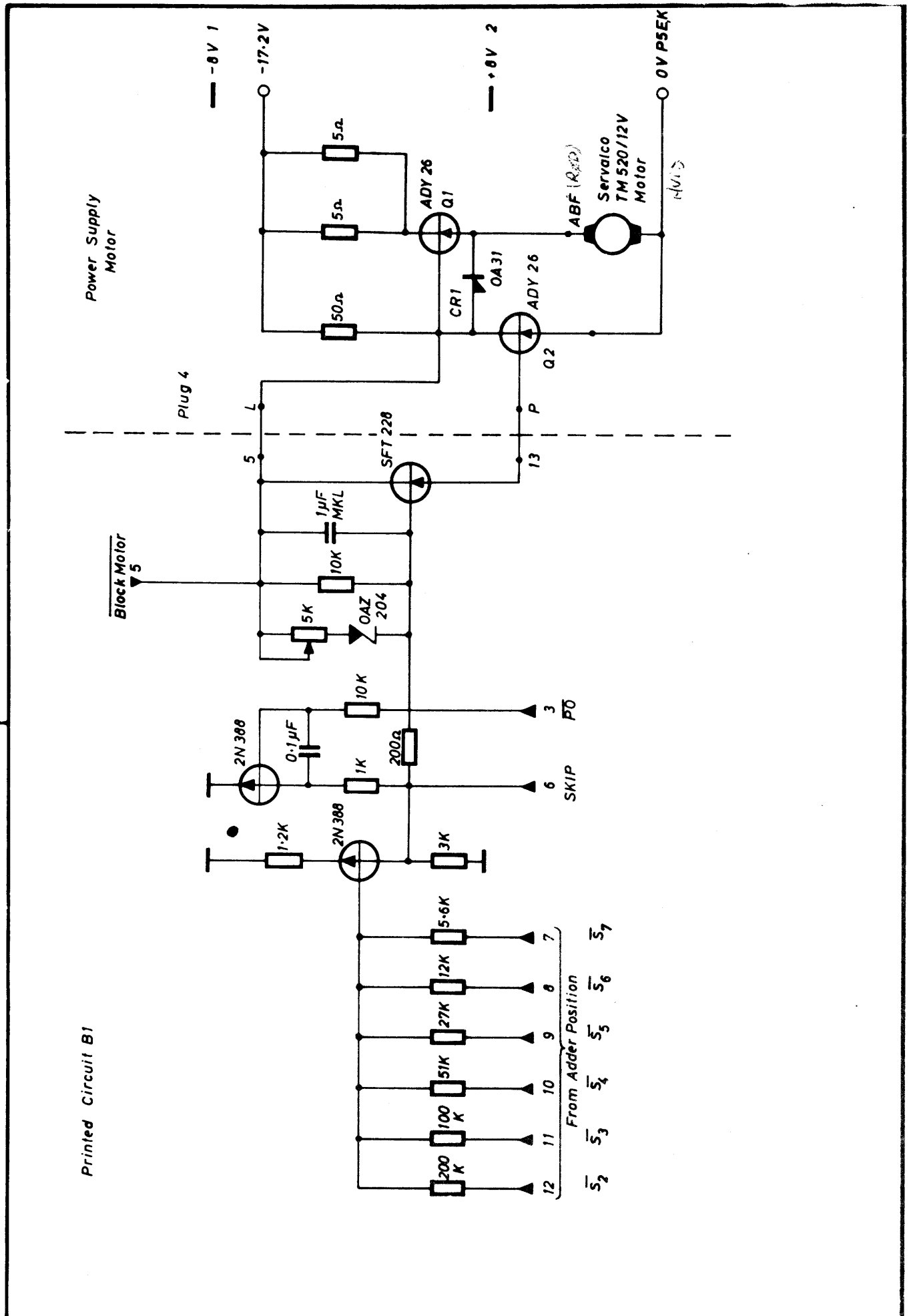
Unit: RC 2000	Designed B.N.	AMPLIFIER AND PHOTOCELL	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 29.6.1967
	Checked 3.12.1965		Checked F.E. 1·9·67
	Last Revision		1 Sheets / Sheet 1
			Page 4



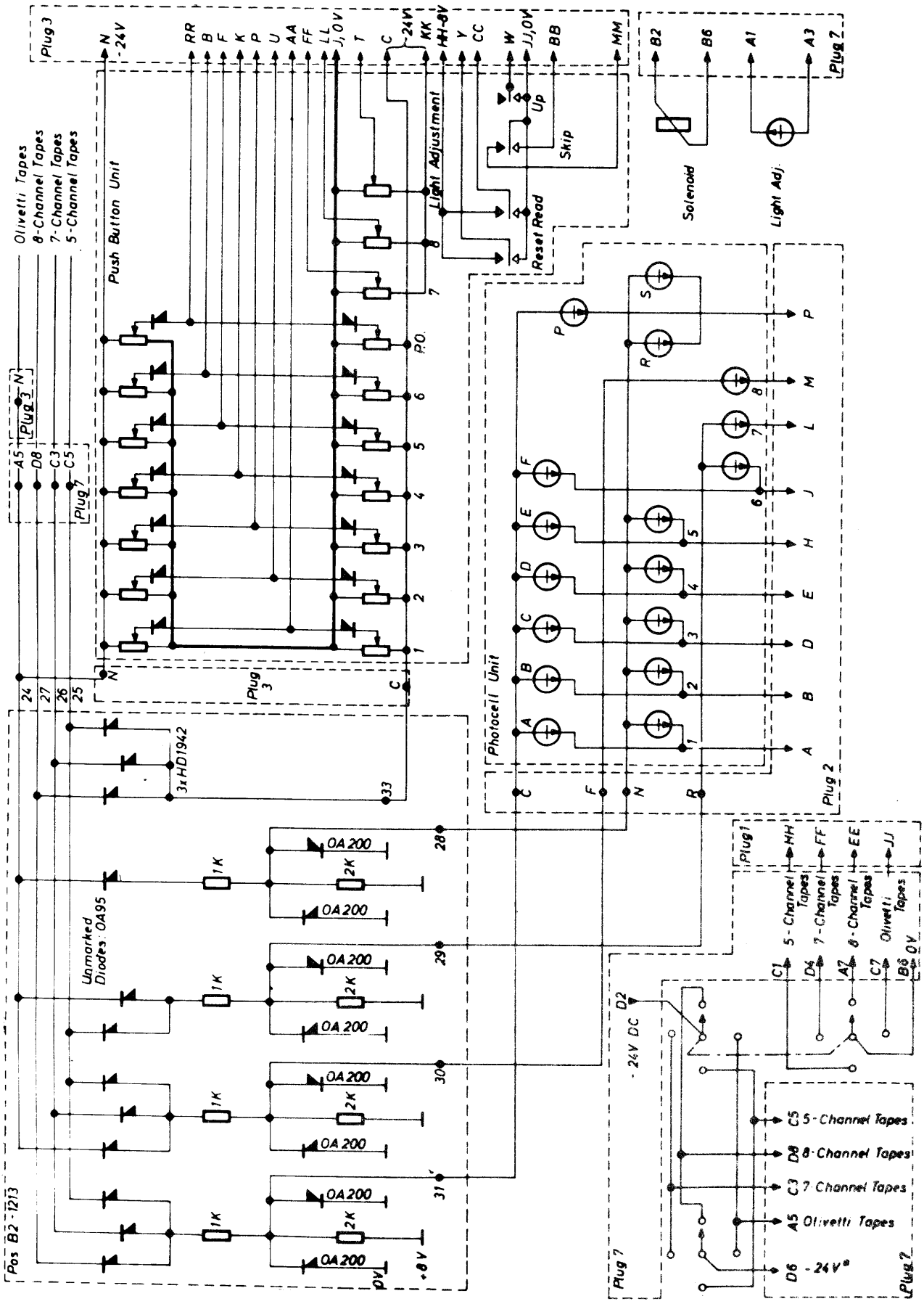
RC 2000	Designed B.N.	PAPER OUT	Drawing No
REGNECENTRALEN	Approved		Drawn by I.K. 17.8.1967
	Checked 3.12.1965		Checked F.E. 1·9·67
	Revision 130270HAP		1 Sheets Sheet 1



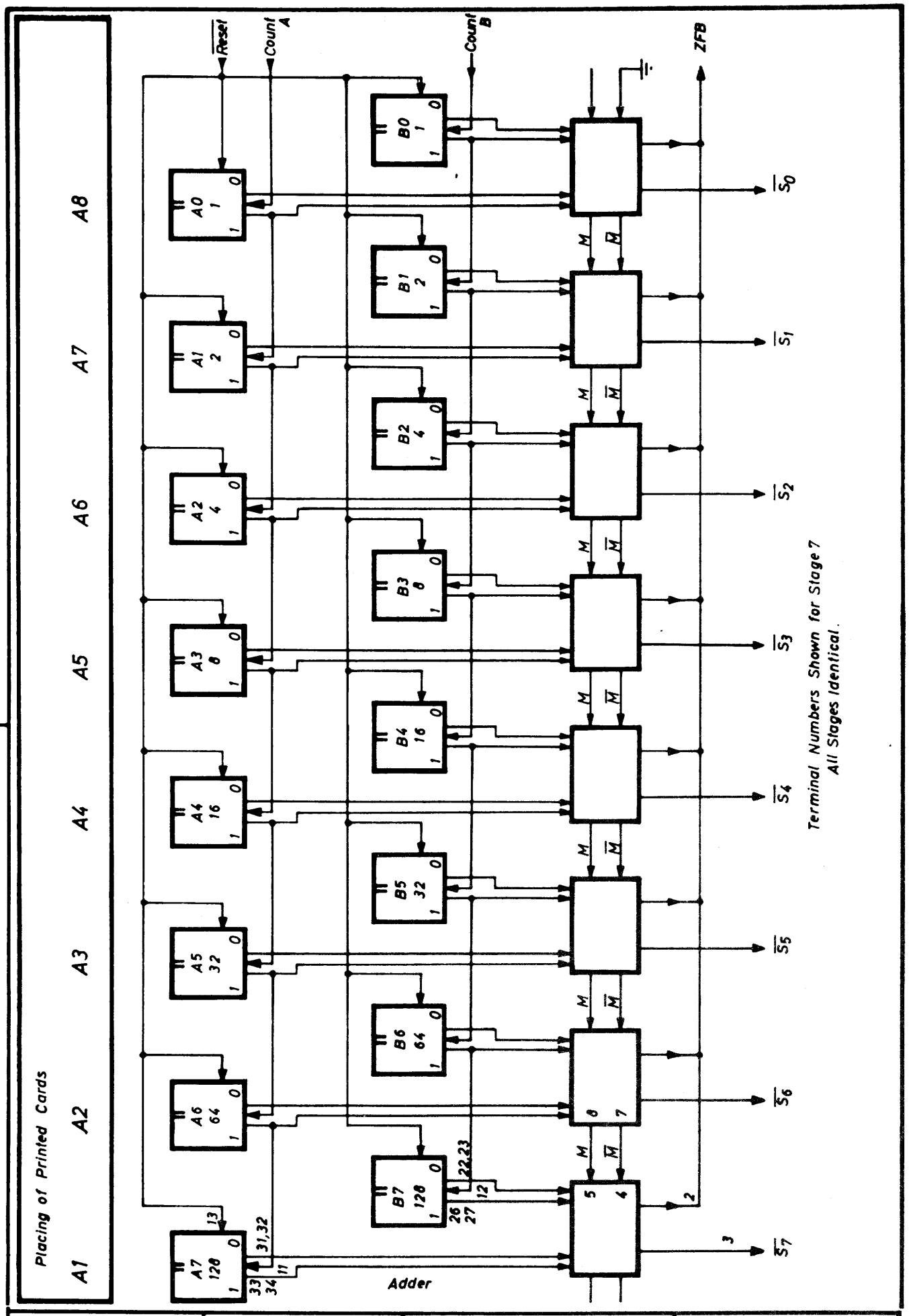
Unit: RC 2000	Designed B.N.	LAMP REGULATOR	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 18.8.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision		1 Sheets / Sheet 1
			Page 6



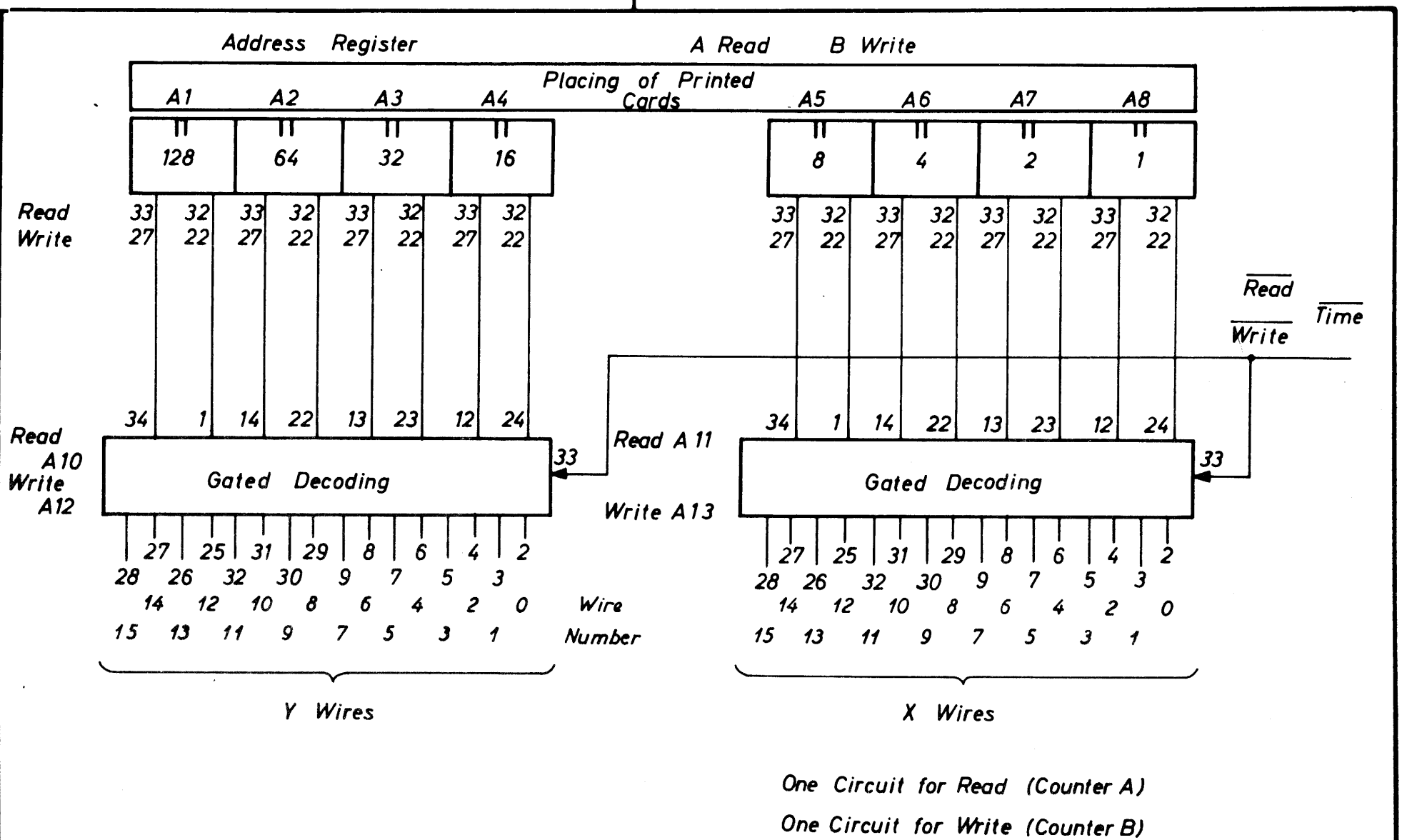
Unit: RC 2000	Designed B.N.	MOTOR CONTROL	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 18.8.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision 2.1.69. F.E.		1 Sheets / Sheet 1
			Page 7



Unit: RC 2000	Designed B.N.	Tape Width Selector Switching System	Drawing No
REGNECENTRALEN	Approved		Drawn by I.K. 7.7.1967
	Checked 3.12.1965		Checked F.E. 1.9.67
	Last Revision 30.11.1967		1 Sheets / Sheet 1
			Page 8



Unit: RC 2000	Designed B.N.	REGISTERS A-B AND ADDER	Drawing No
REGNECENTRALEN	Approved		Drawn by I.K. 29.6.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision		1 Sheets / Sheet 1
			Page 9



CENTRALEN

BEGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision 21.6.8 F.E.

ADDRESS DECODING SYSTEM

Drawing No

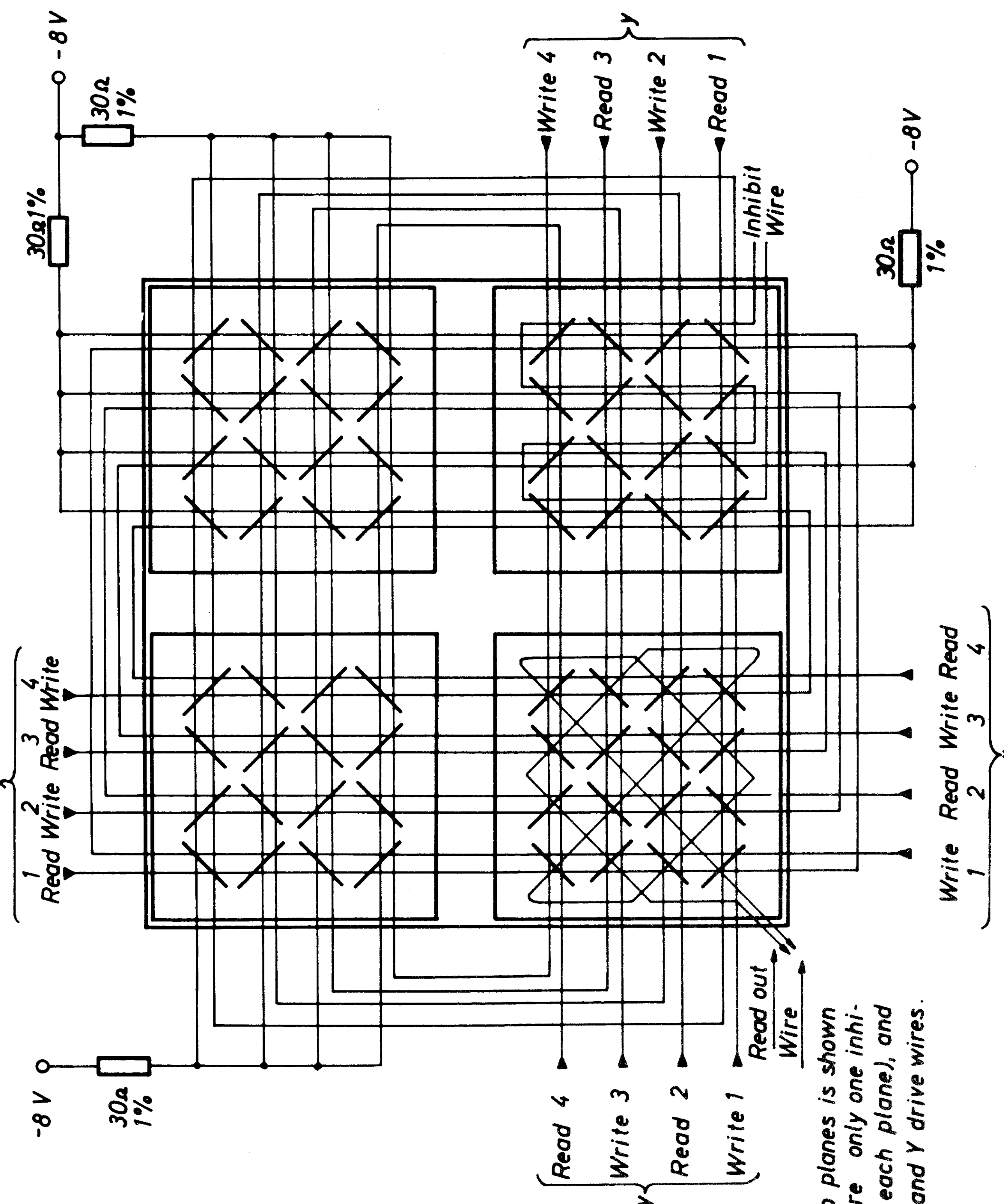
Drawn by I.K. 2.6.1967

Checked F.E. 19.6.67

1 Sheets

Sheet 1

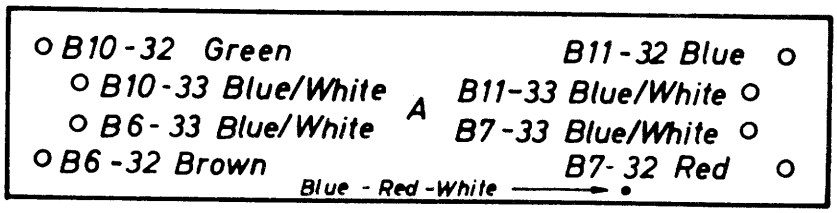
Page 10

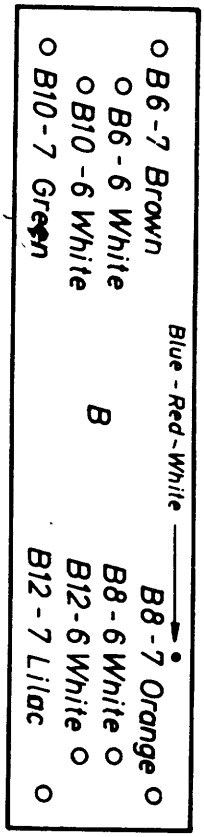


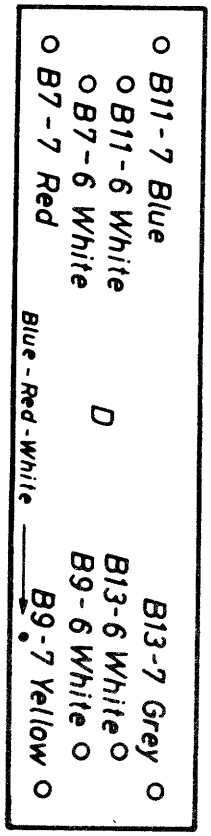
Only one of the two planes is shown
only one read out wire only one inhibit wire (Four in each plane), and
only 4 of the 16 X and Y drive wires.

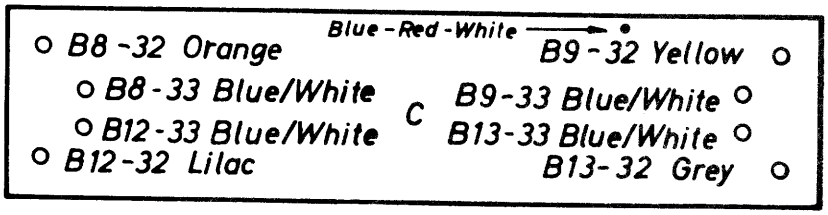
Unit: RC 2000	Designed B.N.	FERRIT MATRIX WIRING	Drawing No
REGNECENTRALEN	Approved		Drawn by I.K. 7.8.1967
	Checked 3.12.1965		Checked F.E. 1.9.67
	Last Revision		1 Sheets / Sheet 1

RC 2000 Memory Connection
of Inhibit and Read Wire
Inhibit (6,7)
Read Wire (32,33)









Blue - Red - White
C = B3-31
D = B3-32
A = B3-29
B = B3-30

Unit: RC 2000	Designed B.N.	RC 2000 MEMORY WIRING SCHEME	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 7.8.1967
	Checked 3.12.1965		Checked F.E. 1.9.67
	Last Revision		1 Sheets / Sheet 1
			Page 12

Pin	Wired To	Wired To	Name of Signal
A1	A13-2		x 0 (Write)
A2	A11-3		x 1 (Read)
A3	A13-4		x 2 (Write)
A4	A11-5		x 3 (Read)
A5	A13-6		x 4 (Write)
A6	A11-7		x 5 (Read)
A7	A13-8		x 6 (Write)
A8	A11-9		x 7 (Read)
A9	A13-29		x 8 (Write)
A10	A11-30		x 9 (Read)
A11	A13-31		x 10 (Write)
A12	A11-32		x 11 (Read)
A13	A13-25		x 12 (Write)
A14	A11-26		x 13 (Read)
A15	A13-27		x 14 (Write)
A16	A11-28		x 15 (Read)

Unit: RC 2000	Designed B.N.	Ferrite Matrix Wiring x	Drawing No
REGNECENTRALEN	Approved		Drawn by I.K.11.8.67.
	Checked 3.12.65.		Checked F.E. 1.9.67
	Last Revision		4 Sheets — Sheet 1

Pin	Wired To	Wired To	Name of Signal
B1	A12-2		Y 0 (Write)
B2	A10-3		Y 1 (Read)
B3	A12-4		Y 2 (Write)
B4	A10-5		Y 3 (Read)
B5	A12-6		Y 4 (Write)
B6	A10-7		Y 5 (Read)
B7	A12-8		Y 6 (Write)
B8	A10-9		Y 7 (Read)
B9	A12-29		Y 8 (Write)
B10	A10-30		Y 9 (Read)
B11	A12-31		Y 10 (Write)
B12	A10-32		Y 11 (Read)
B13	A12-25		Y 12 (Write)
B14	A10-26		Y 13 (Read)
B15	A12-27		Y 14 (Write)
B16	A10-28		Y 15 (Read)

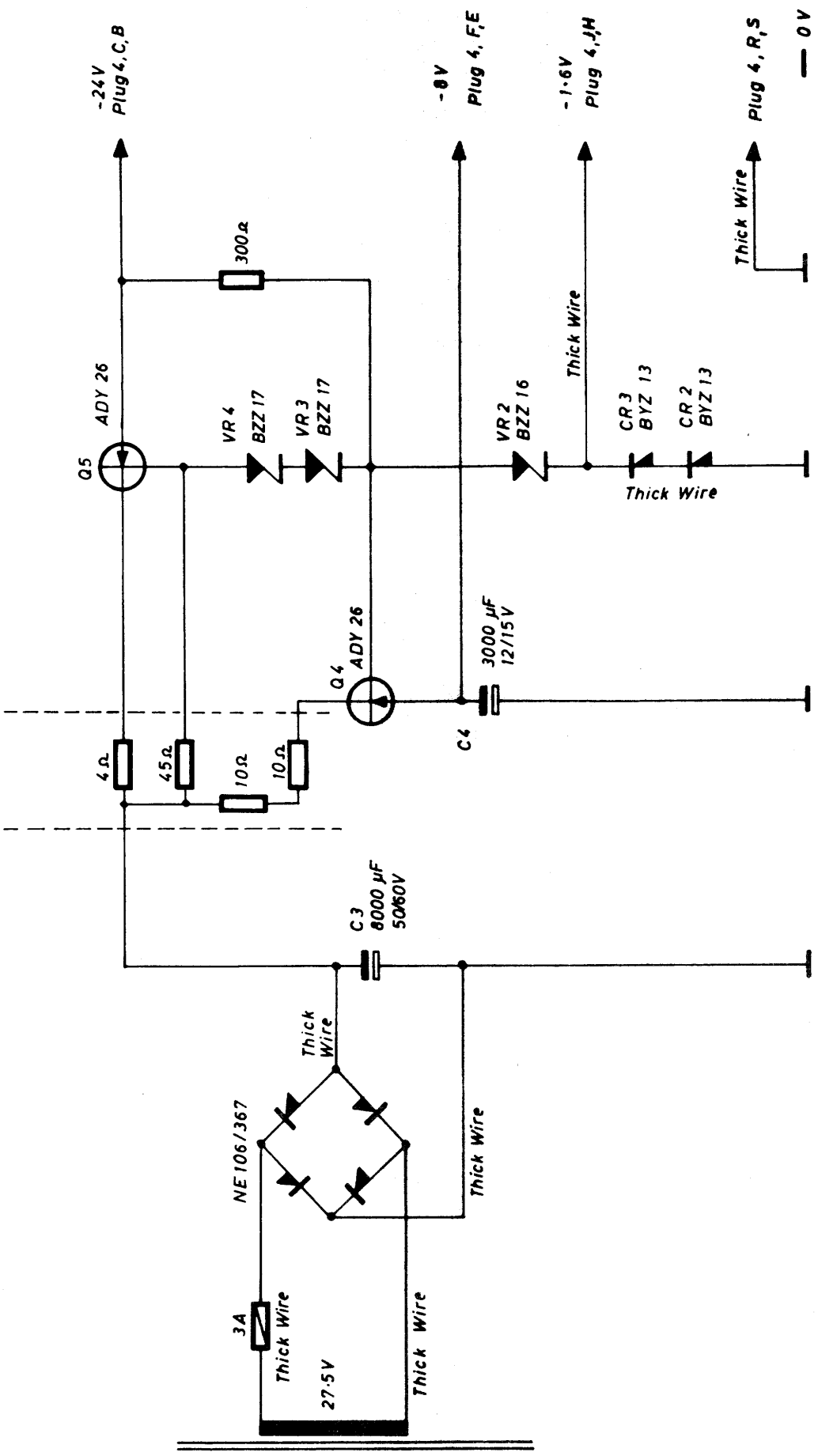
Unit: RC 2000	Designed B.N.	Ferrite Matrix Wiring y	Drawing No
			Drawn by I.K. 11.8.67
	Approved		Checked F.E. 1-8-67
REGNE CENTRALEN	Checked 3.12.65.		4 Sheets / Sheet 2
	Last Revision		Page 14

Pin	Wired To	Wired To	Name of Signal
C1	A11-2		x 0 (Read)
C2	A13-3		x 1 (Write)
C3	A11-4		x 2 (Read)
C4	A13-5		x 3 (Write)
C5	A11-6		x 4 (Read)
C6	A13-7		x 5 (Write)
C7	A11-8		x 6 (Read)
C8	A13-9		x 7 (Write)
C9	A11-29		x 8 (Read)
C10	A13-30		x 9 (Write)
C11	A11-31		x 10 (Read)
C12	A13-32		x 11 (Write)
C13	A11-25		x 12 (Read)
C14	A13-26		x 13 (Write)
C15	A11-27		x 14 (Read)
C16	A13-28		x 15 (Write).

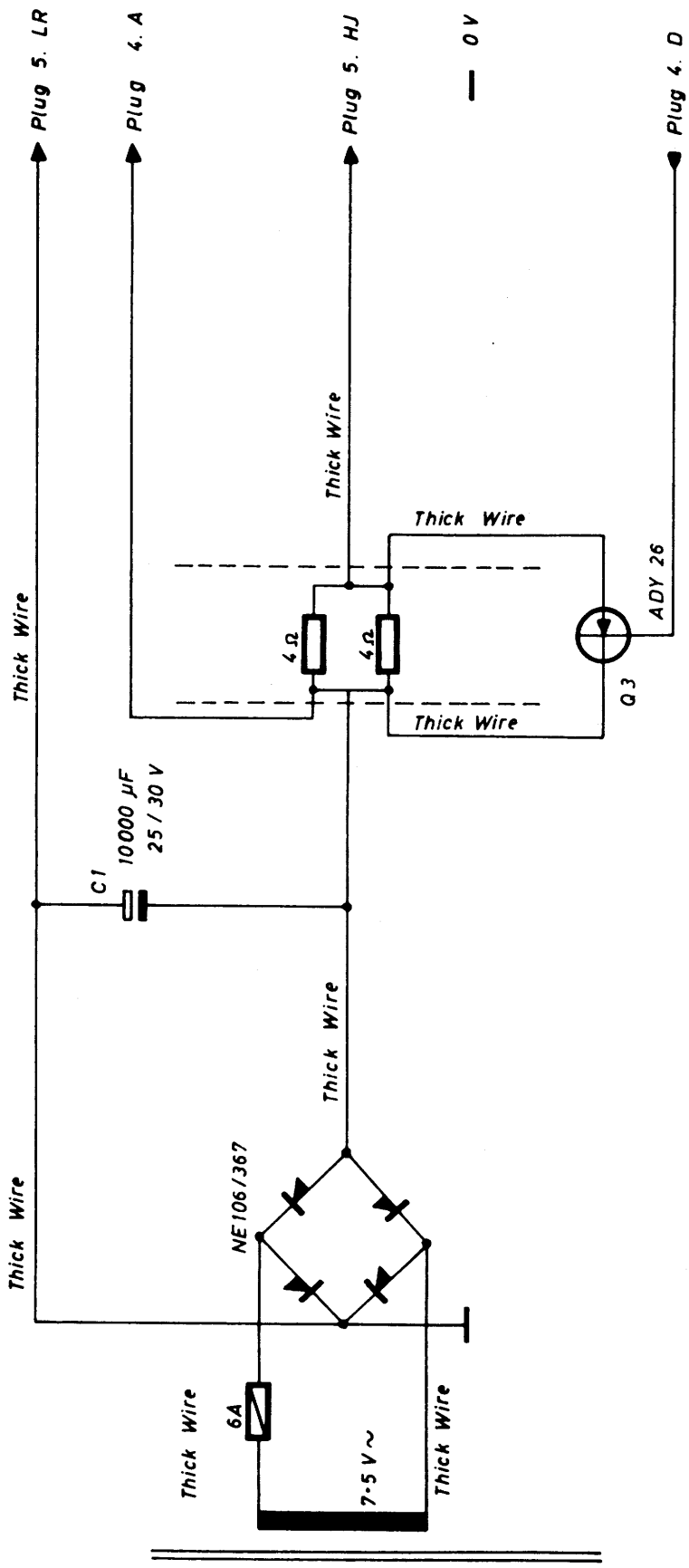
Unit: RC 2000	Designed B.N.	Ferrite Matrix Wiring x	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 11.8.67
	Checked 3.12.65.		Checked F.E. 1-9-67
	Last Revision		4 Sheets, Sheet 3
			Page 15

Pin	Wired To	Wired To	Name of Signal
D1	A10-2		Y 0 (Read)
D2	A12-3		Y 1 (Write)
D3	A10-4		Y 2 (Read)
D4	A12-5		Y 3 (Write)
D5	A10-6		Y 4 (Read)
D6	A12-7		Y 5 (Write)
D7	A10-8		Y 6 (Read)
D8	A12-9		Y 7 (Write)
D9	A10-29		Y 8 (Read)
D10	A12-30		Y 9 (Write)
D11	A10-31		Y 10 (Read)
D12	A12-32		Y 11 (Write)
D13	A10-25		Y 12 (Read)
D14	A12-26		Y 13 (Write)
D15	A10-27		Y 14 (Read)
D16	A12-28		Y 15 (Write)

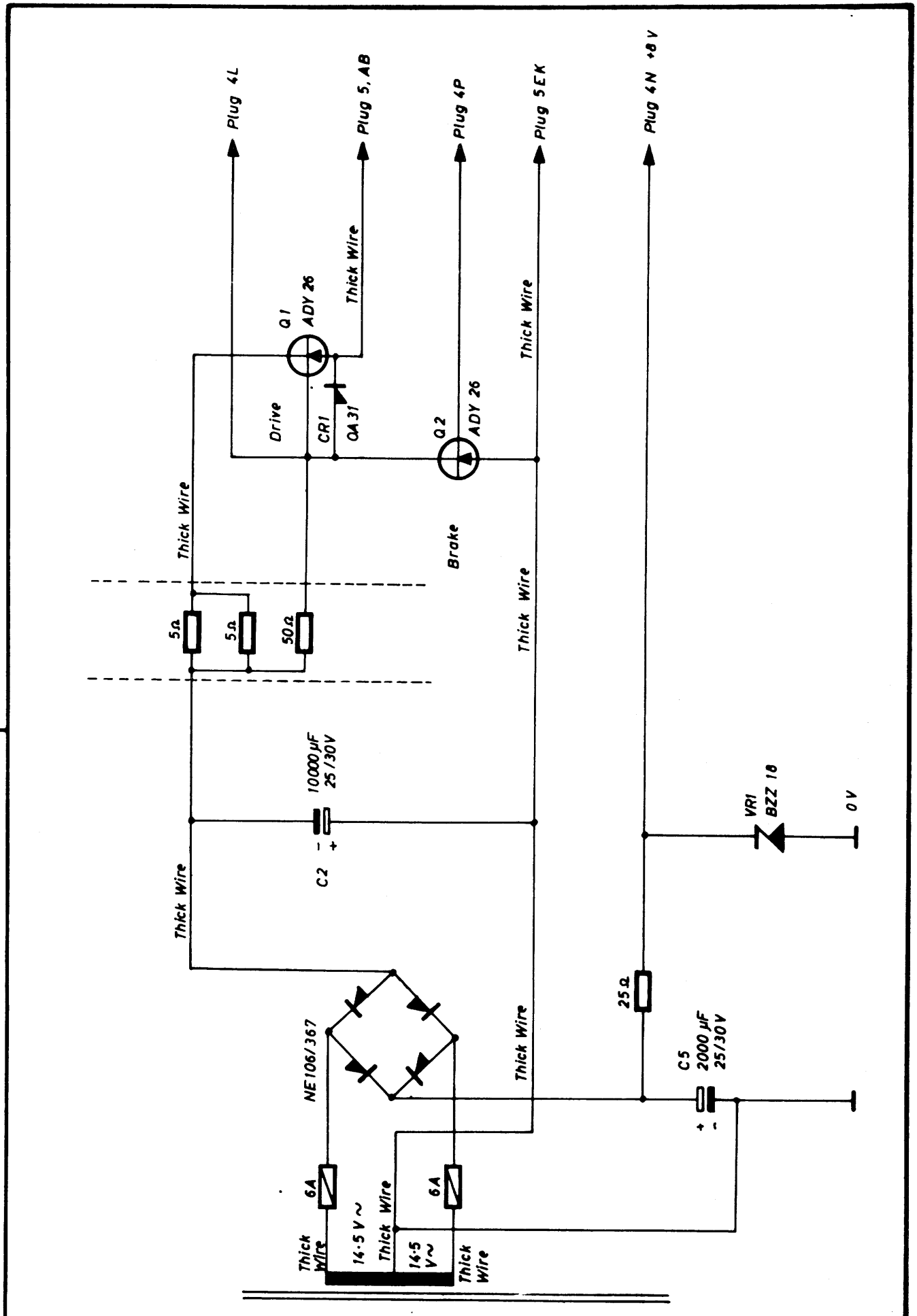
Unit: RC 2000	Designed B.N.	Ferrite Matrix Wiring y	Drawing No
			Drawn by I.K.11.8.67
	Approved		Checked F.E. 1-9-67
BEGNE CENTRALEN	Checked 3.12.65		4 Sheets / Sheet 4
	Last Revision		Page 16



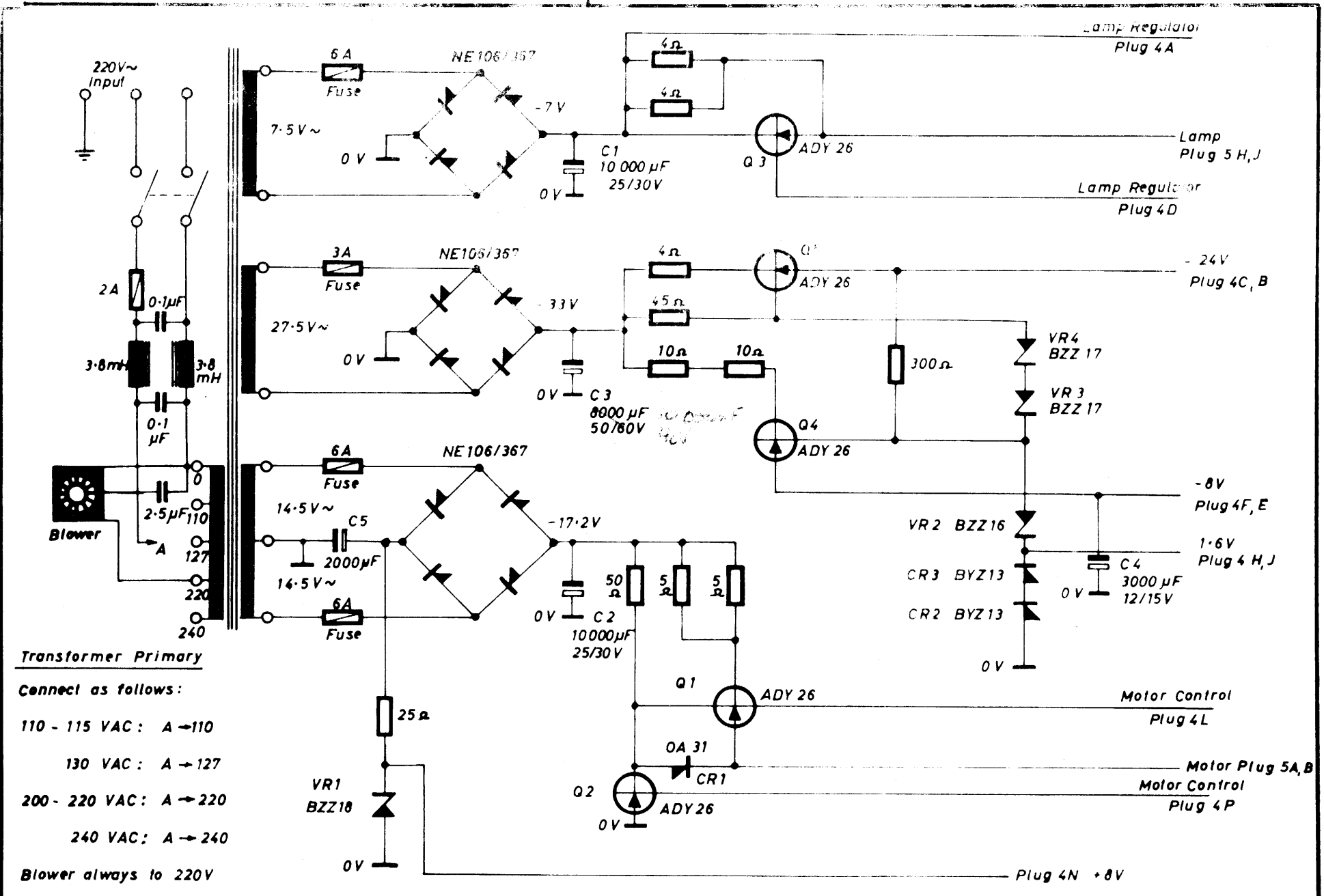
Unit: RC 2000	Designed B.N.	POWER SUPPLY	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 10.8.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision 2.1.69 F.E.		6 Sheets / Sheet 1
			Page 17



Unit: RC 2000	Designed B.N.	POWER SUPPLY	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 9.8.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision		6 Sheets / Sheet 2
			Page 18



Unit: RC 2000	Designed B.N.	POWER SUPPLY	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 9.8.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision 4/11-67 L.L.		6 Sheets / Sheet 1
			Page 19



RADIONE CENTRALEN

Unit RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision 2.1.69. FE

POWER SUPPLY (COMPLETE SCHEMATIC DIAGRAM)

Drawing No

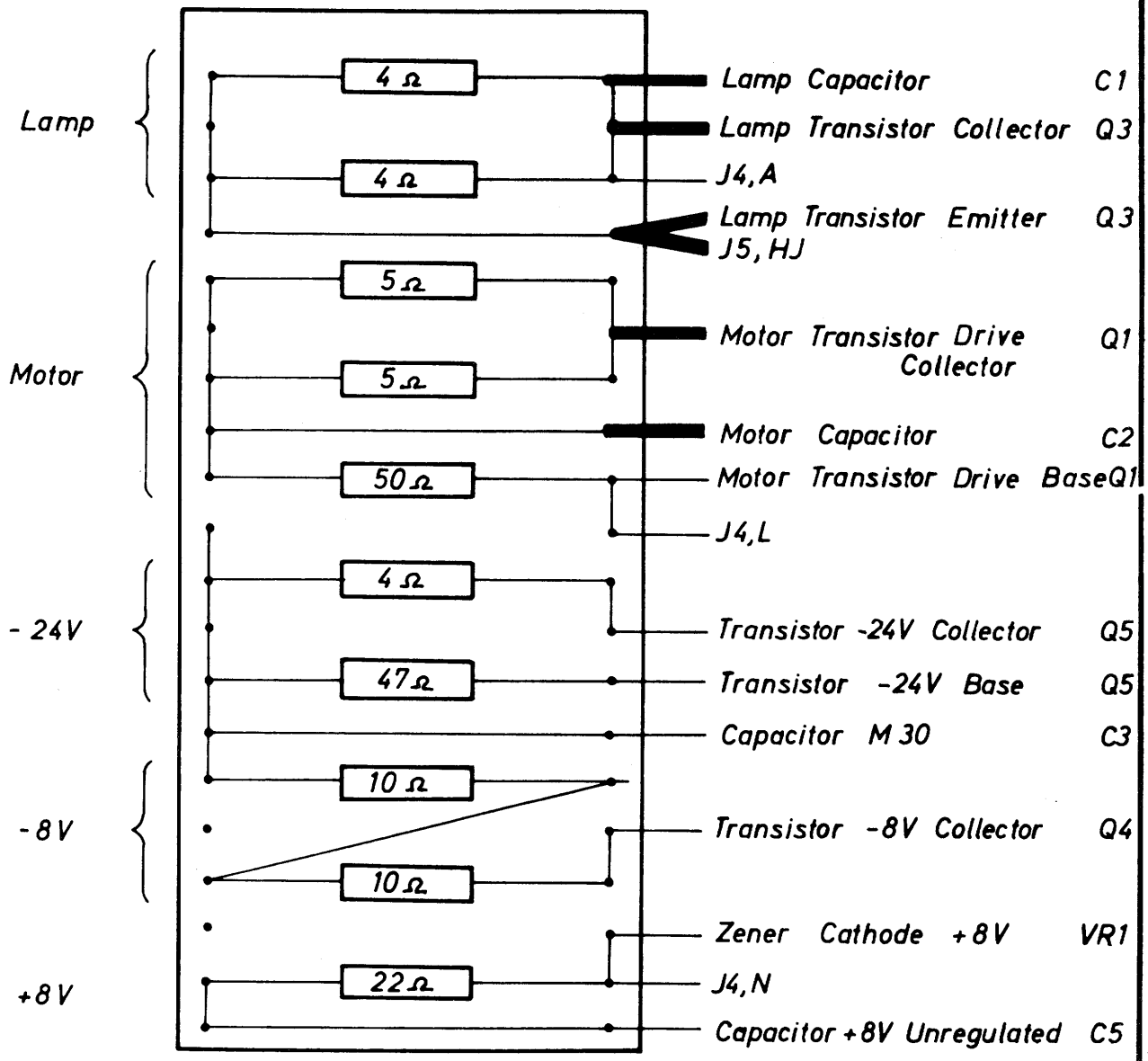
Drawn by I.K. 19.6.1968

Checked E.K. 19.6.1968

6 Sheets

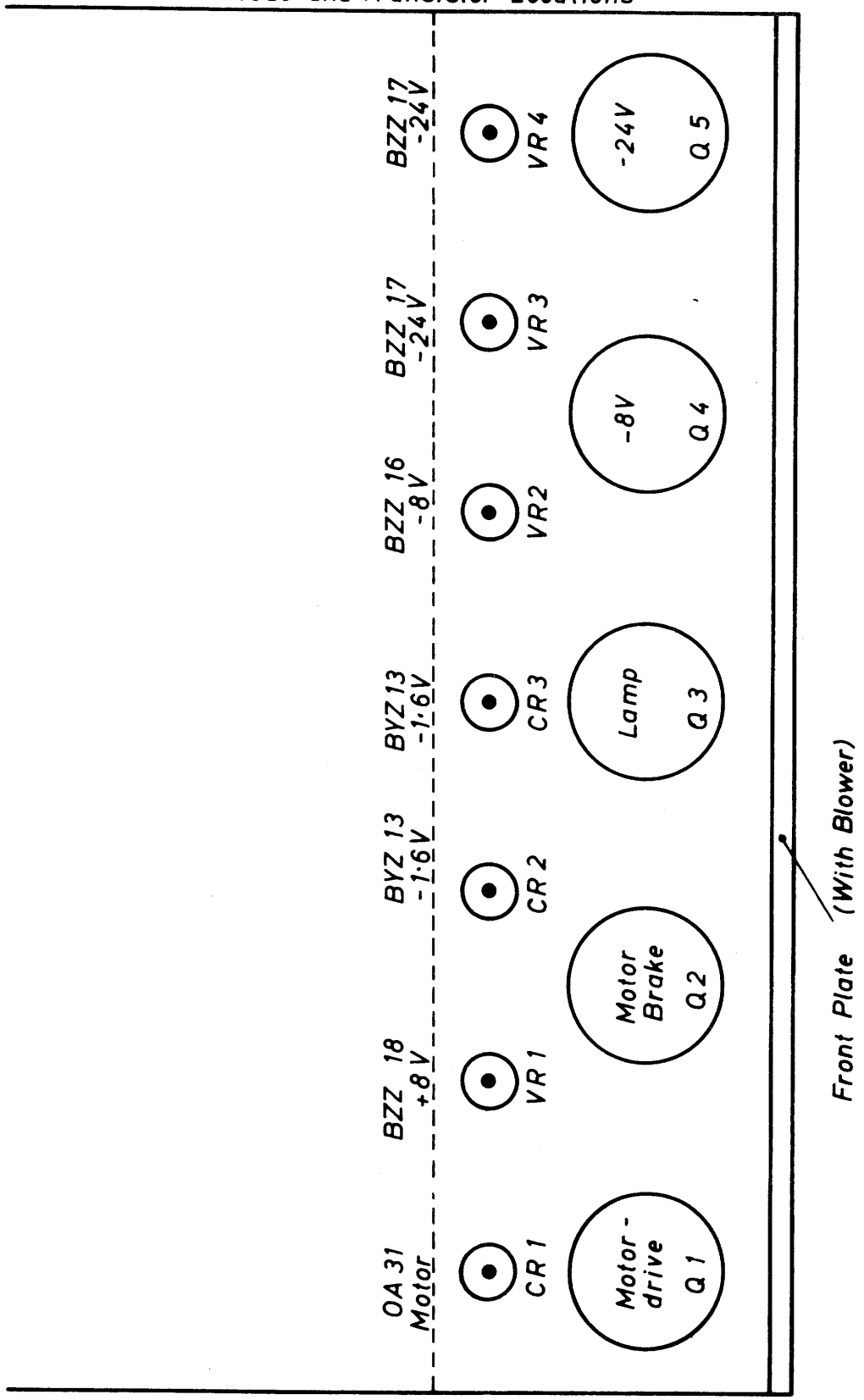
Sheet 4

Resistors



Unit: RC 2000	Designed B.N.	POWER SUPPLY (RESISTORS)	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 8.8. 1967
	Checked 3.12.1965.		Checked F.E. 1·9·67
	Last Revision L.L.2.11.1966		6 Sheets / Sheet 5
			Page 21

Diode and Transistor Locations



Unit: RC 2000	Designed B.N.	POWER SUPPLY (TOP VIEW)	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 8.8.1967
	Checked 3.12.65		Checked F.E. 1.9.67
	Last Revision		6 Sheets / Sheet 6

0	1	2	3	4	5	6	7	8	9	10	11	12	13
Int. Block Motor	A B Adder 128	A B Adder 64	A B Adder 32	A B Adder 16	A B Adder 8	A B Adder 4	A B Adder 2	A B Adder 1	* Parity Control	Read Driver Y A 16 32 64 128	Read Driver X A 1 2 3 8	Write Driver Y B 16 32 64 128	Write Driver X B 1 2 3 8
1227A	1201	1201	1201	1201	1201	1201	1201	1201	1228	1203	1203	1203	1203

Start Busy Signal Ready	Lamp Control Motor Control	Gate	WA WB WC	RB RC Reset	RA WD PO	In Out Track 1 A	In Out Track 2 B	In Out Track 3 C	In Out Track 4 D	In Out Track 5 E	In Out Track 6 F	In Out Track 7	In Out Track 8
*1224	1205A-1	1213	1371	1200-3	1212-1	1202	1202	1202	1202	1202	1202	1202	1202

A * Depending of Options B

SURVEY OF PRINTED CIRCUIT CARDS

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision

Drawing No

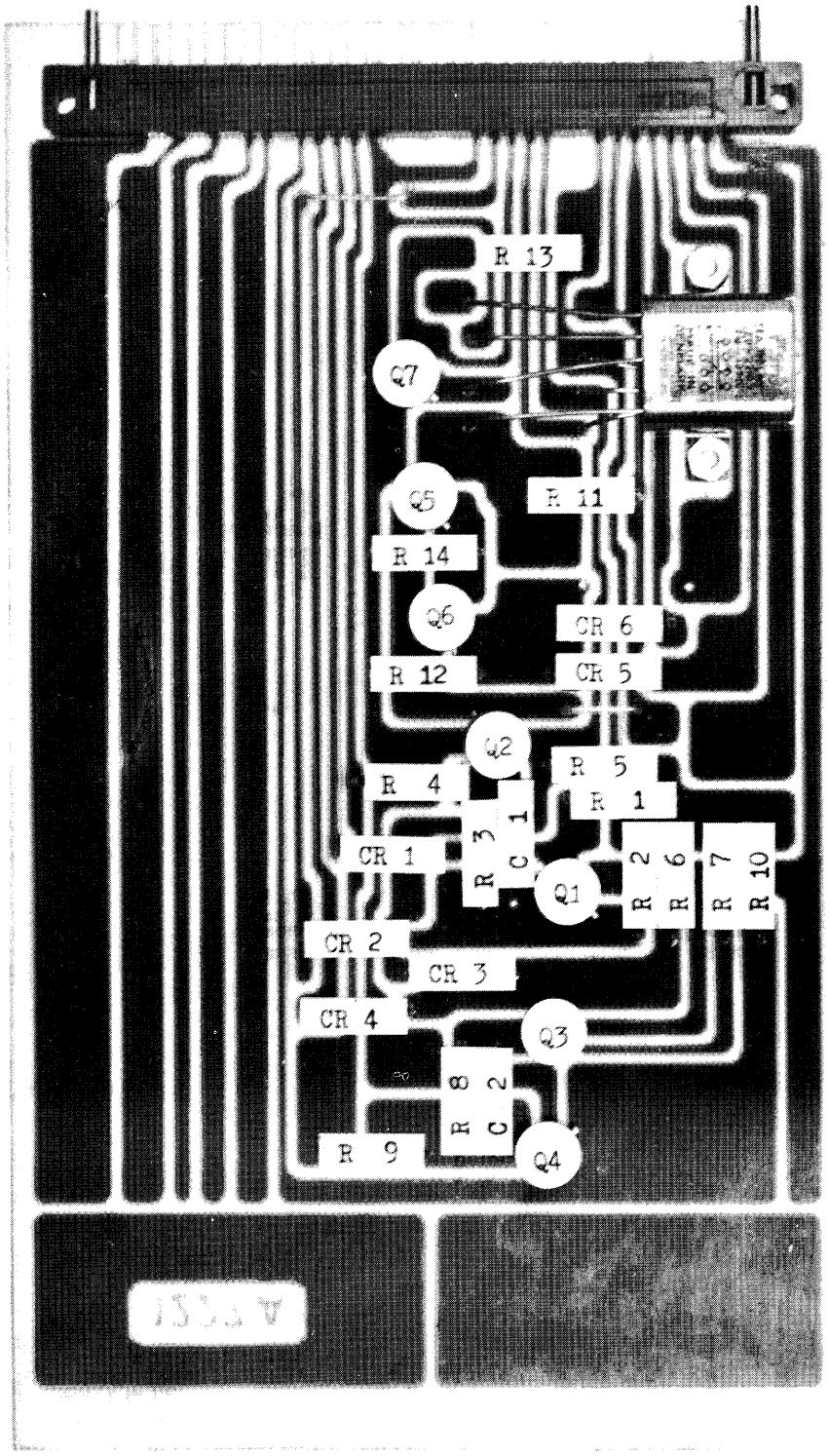
Drawn by I.K. 28.6.1967

Checked F.E. 1.9.69

1 Sheets

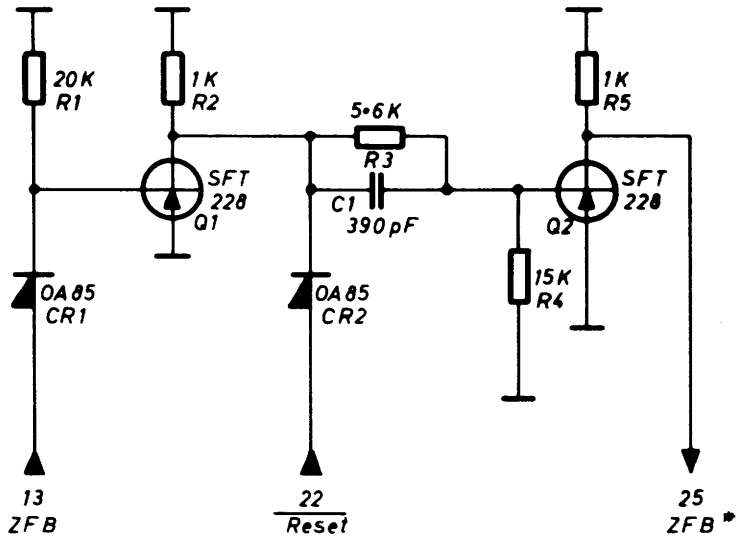
Sheet 1

CENTRALEN



Unit: RC 2000	Designed A N. G.	PCBA 1227A LAY OUT	Drawing No
A/S REGNECENTRALEN	Approved		Drawn by AN.G. 1 11 67
	Checked 1 12 67		Checked B.J.L. 1 12 67
	Last Revision		____ Sheets Sheet ____
			Page 24

Form 302-A-12 8 66

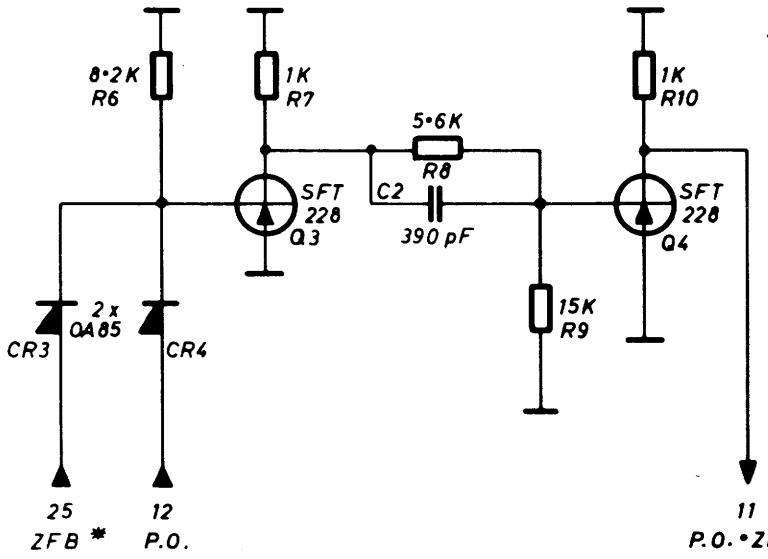


— -8V 28

— -1·6V 35

— 0V 15,21

— +8V 14



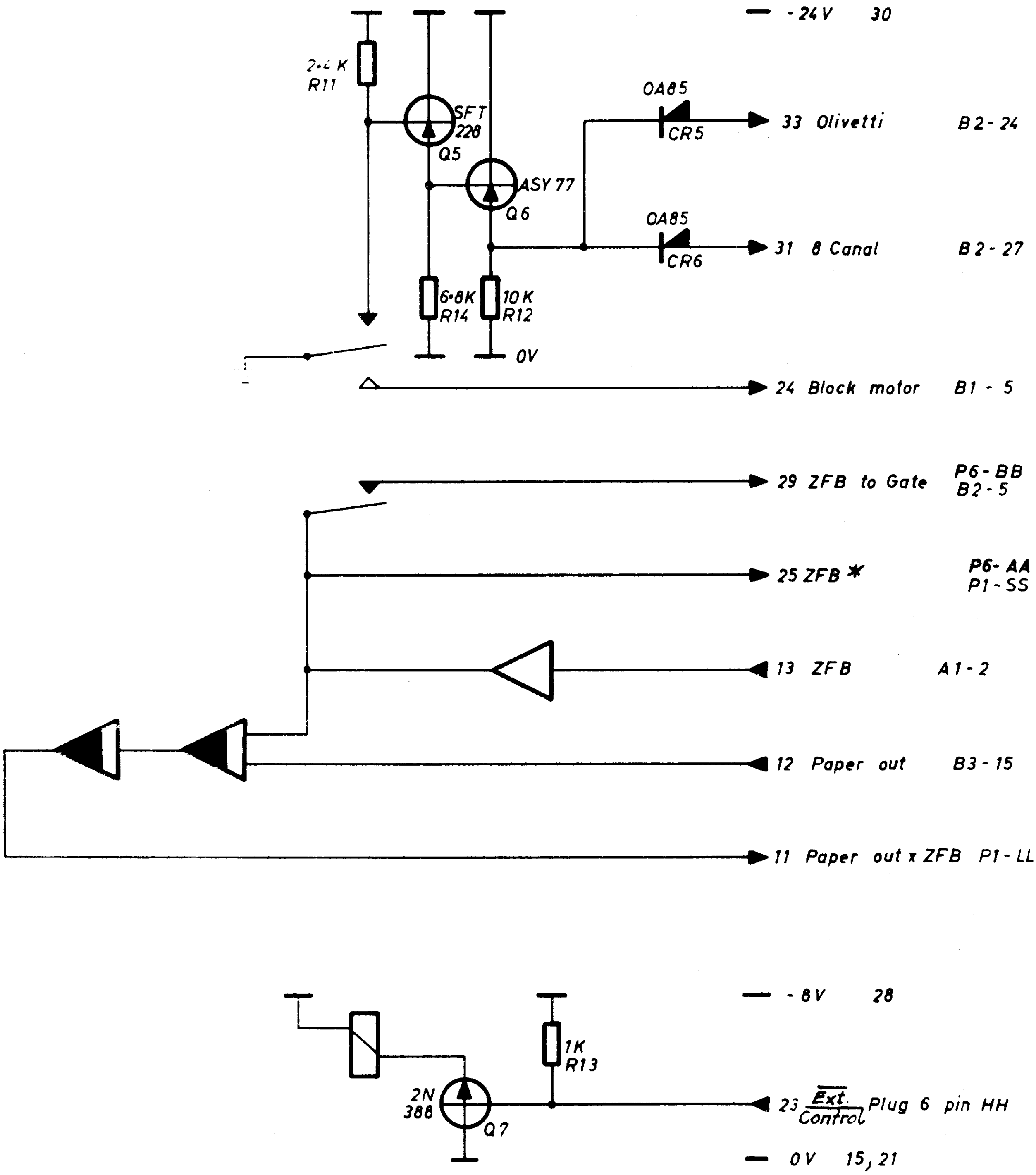
— -8V 28

— -1·6V 35

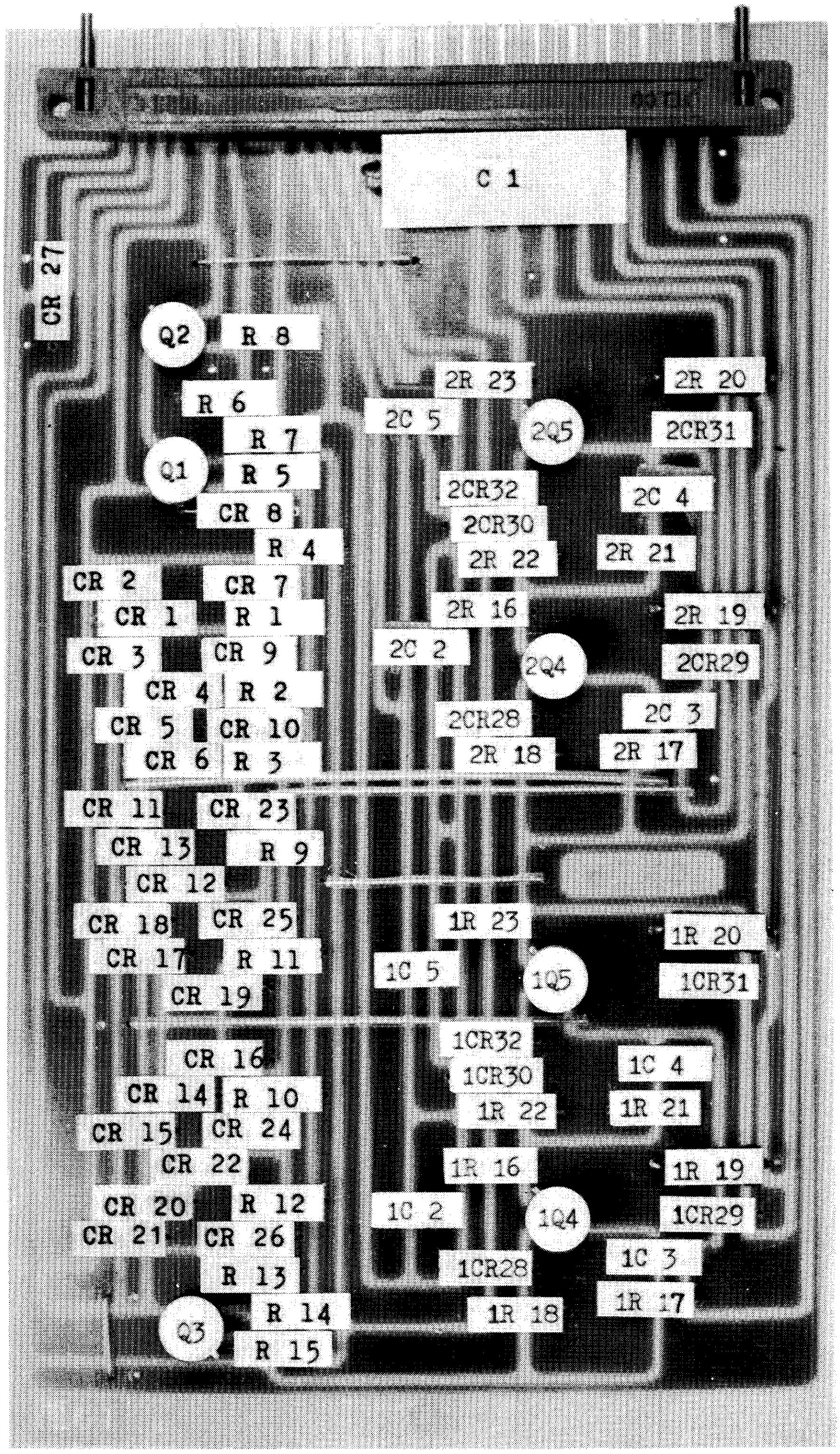
— 0V 15,21

— +8V 14

Unit: RC 2000	Designed B.N.	EXT. INPUT CONTROL.	Drawing No
REGNECENTRALEN	Approved		Drawn by G.T. 2.6.67.
	Checked 3.12.65.		Checked F.E. 1-9-67
	Last Revision I.K.10.11.67.		2 Sheets / Sheet 1
			A0 / 1227 A
			Page 25

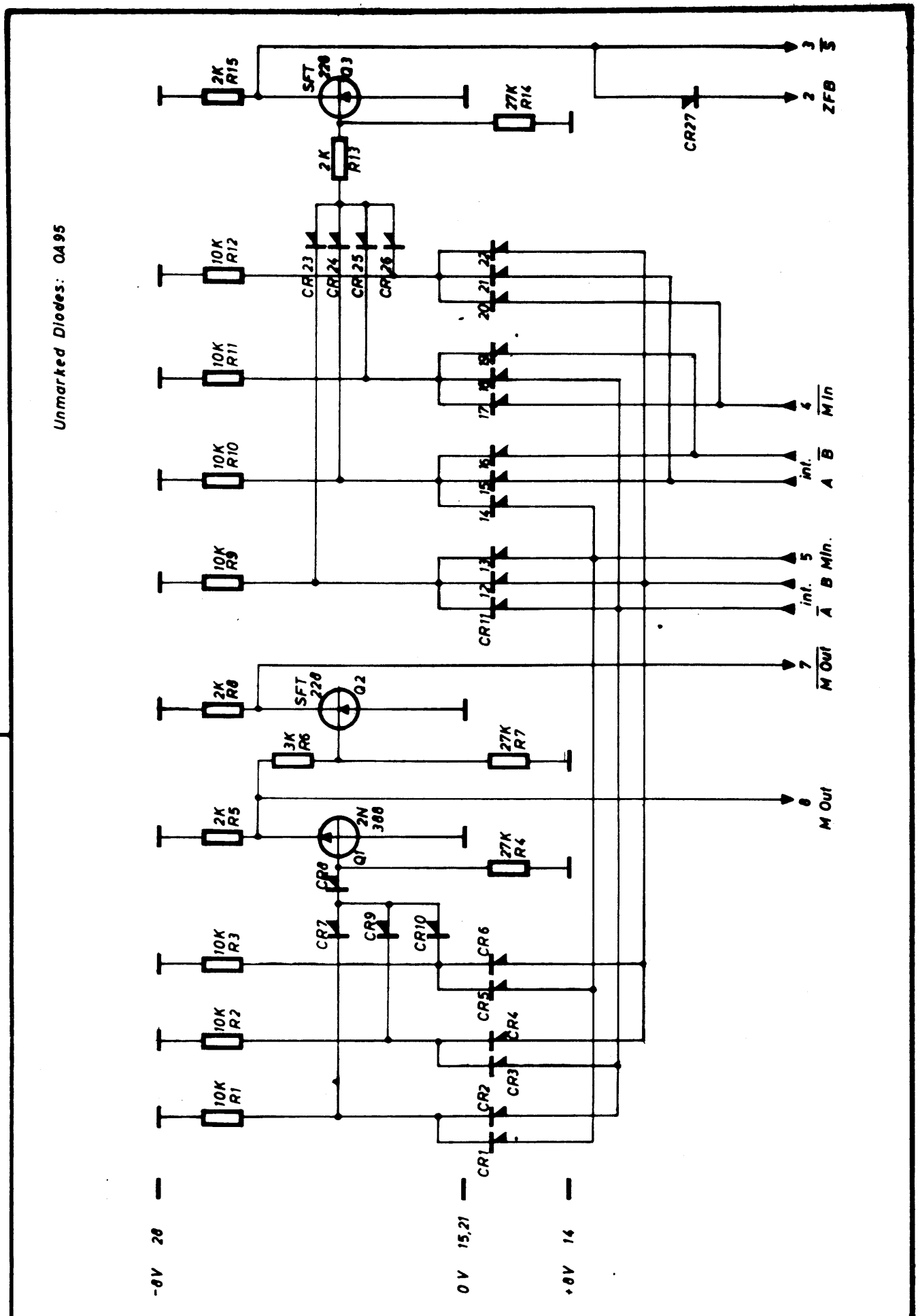


Unit RC 2000	Designed B.N.	EXT. INPUT CONTROL.	Drawing No
			Drawn by G.T. 5.6.67.
REGNECENTRALEN	Approved		Checked F.E. 1.9.67
	Checked 3.12.65.		2 Sheets, Sheet 2
	Last Revision ERC 59.69		A0, 1227 A



Unit: RC 2000	Designed A N. G.	PCBA 1201 LAY OUT	Drawing No
A/S REGNECENTRALEN	Approved		Drawn by AN.G 1 11 67
	Checked 1 12 67		Checked BJL. 1 12 67
	Last Revision		____ Sheets / Sheet ____
			Page 27

Form 305-A-4-2.8.66



Unit: RC 2000	Designed B.N.	REGNECENTRALEN	Drawing No
	Approved	REGISTER AND ADDER	Drawn by I.K. 28.6.1967
	Checked 3.12.1965		Checked F.E. 1-9-69
	Last Revision I.K. 10.11.67.		2 Sheets / Sheet 1
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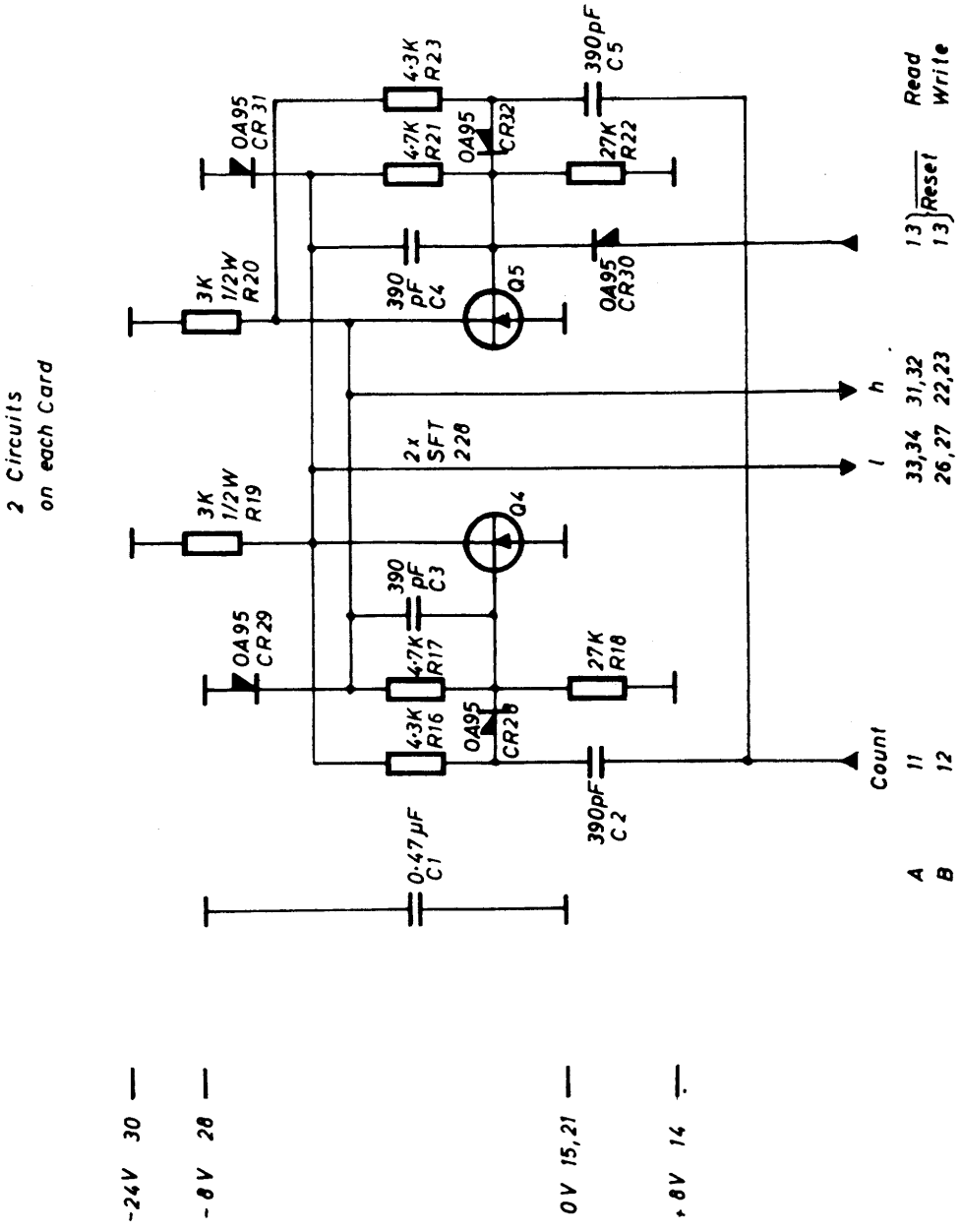
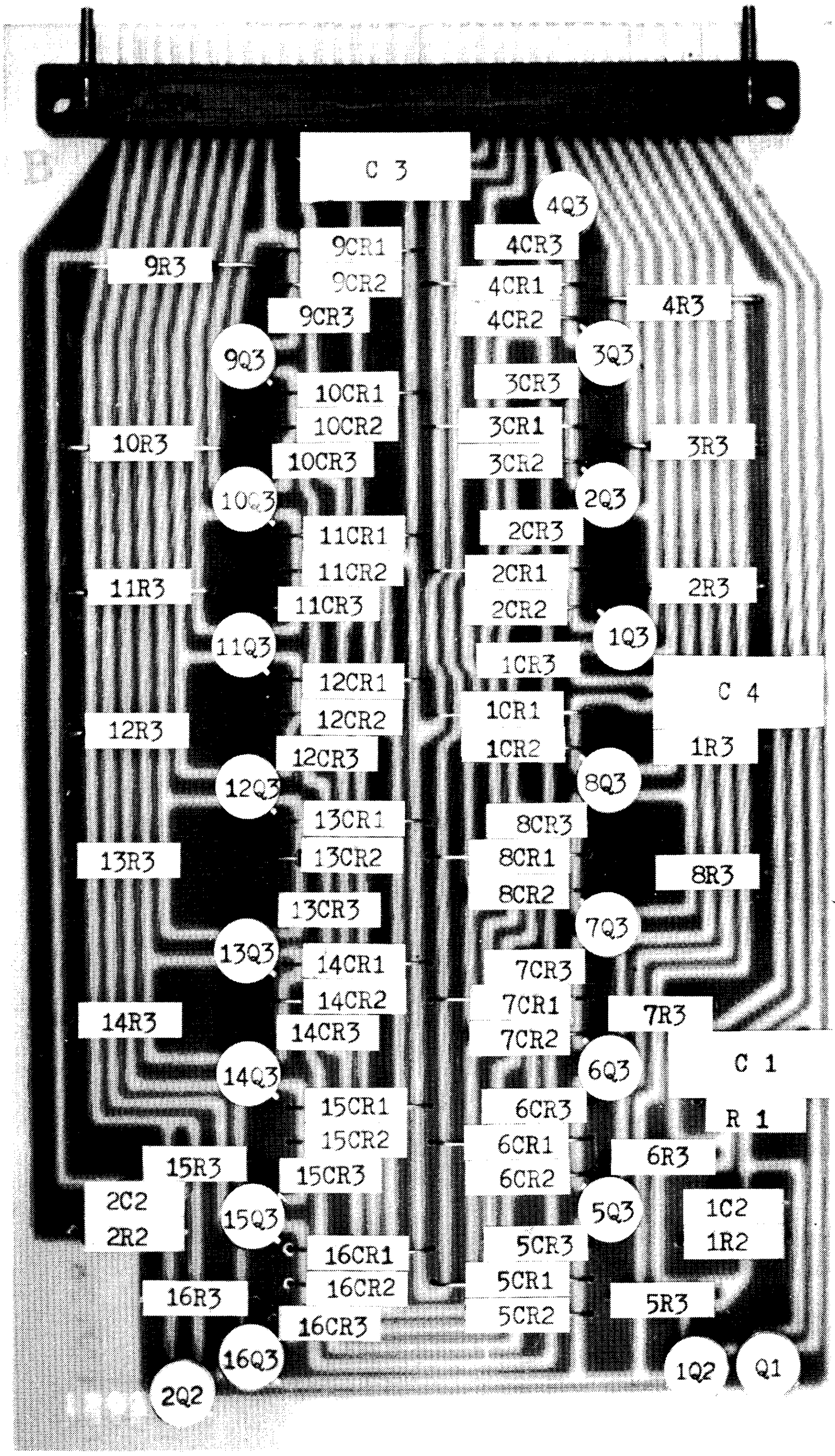


Unit: RC 2000	Designed B.N.	REGISTER AND ADDER	Drawing No
			Drawn by I.K. 21.6.1967
	Approved		Checked F.E. 1·9·67
A/S REGNECENTRALEN	Checked 3.12.1965		2 Sheets / Sheet 2
	Last Revision I.K.10.11.67.		A1-A8 / 1201
			Page 29



Unit: RC 2000	Designed A.N.G.	PCBA 1203 LAY OUT	Drawing No
REGNECENTRALEN	Approved		Drawn by A.N.G. 1 11 67
	Checked 1 12 67		Checked B.J.L. 1 12 67
	Last Revision		___ Sheets / Sheet ___
			Page 32

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REGNE CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision I.K. 7.5.1968

FERRITE MATRIX DECODING

Drawing No

Drawn by I.K. 22.6.1967

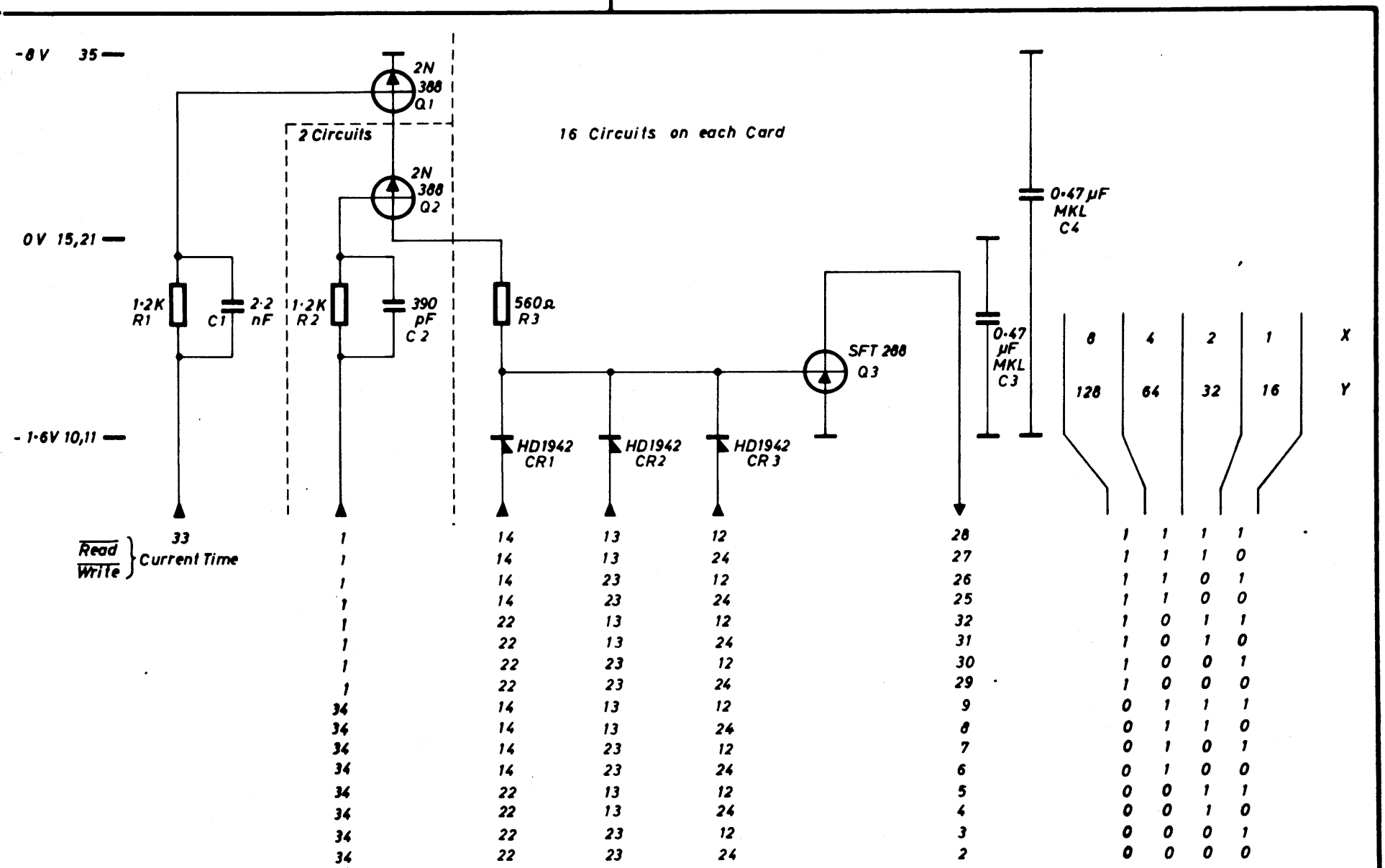
Checked F.E. 1.9.67

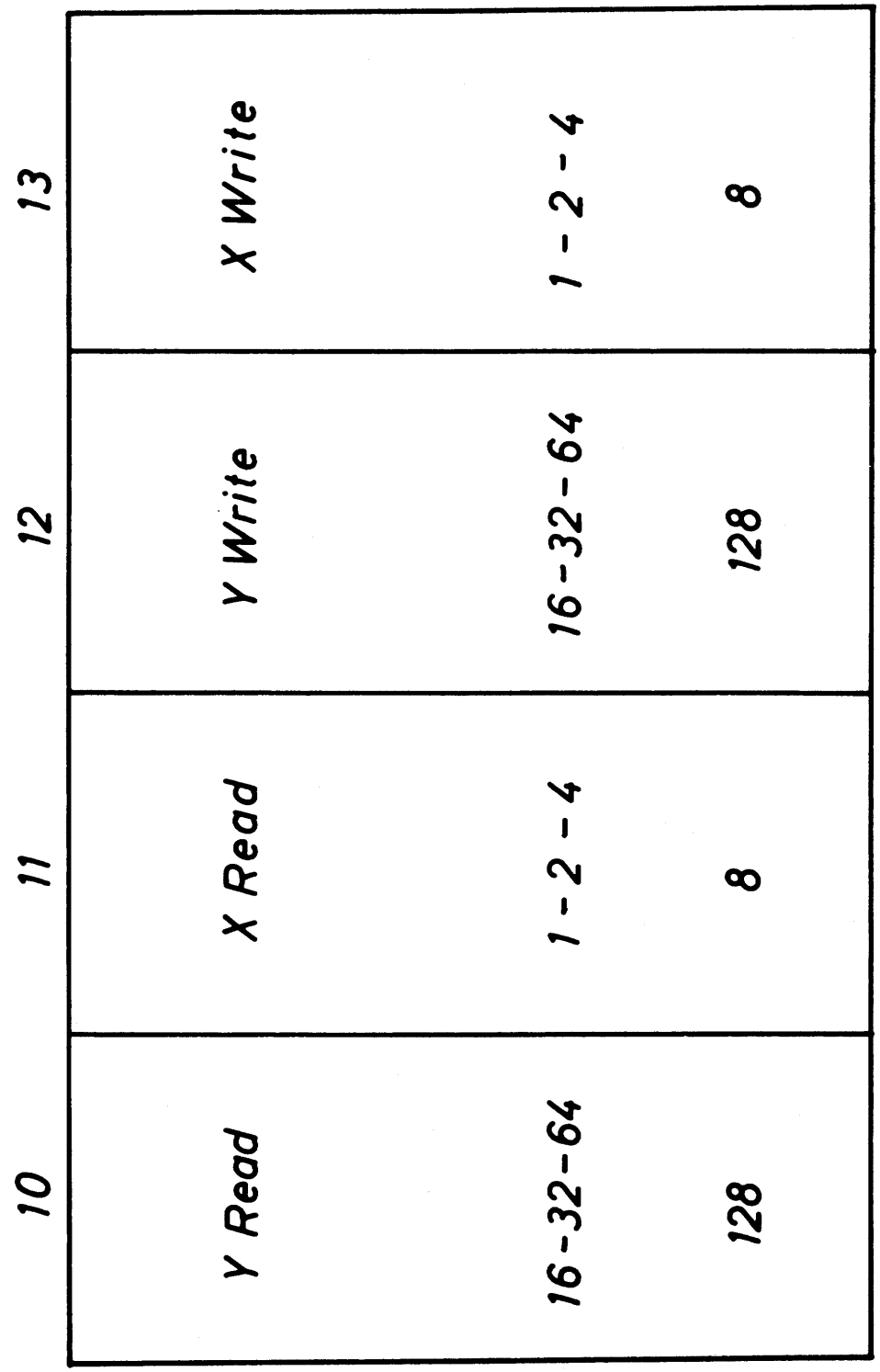
1 Sheets

Sheet 1

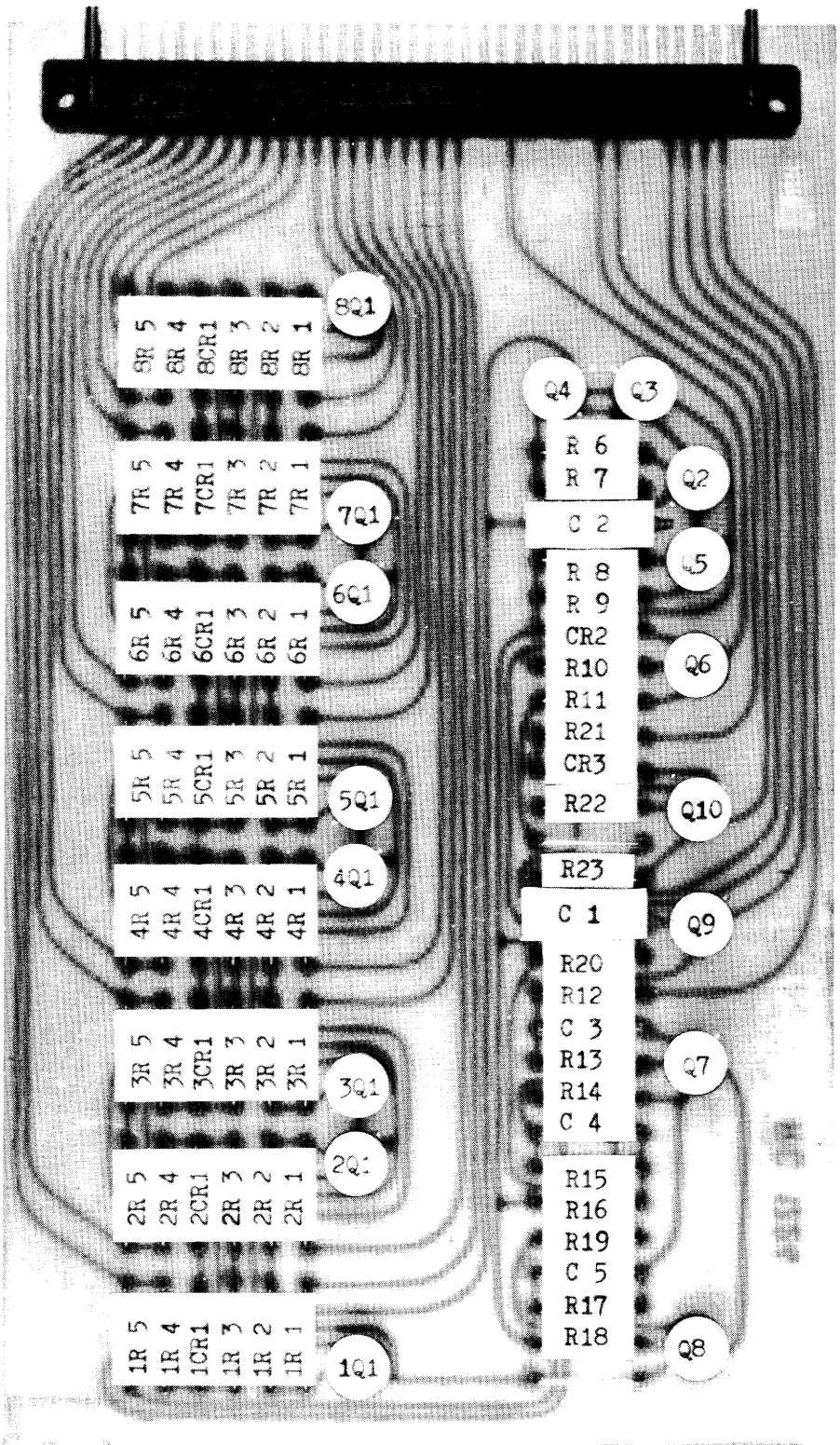
A10-12

1203



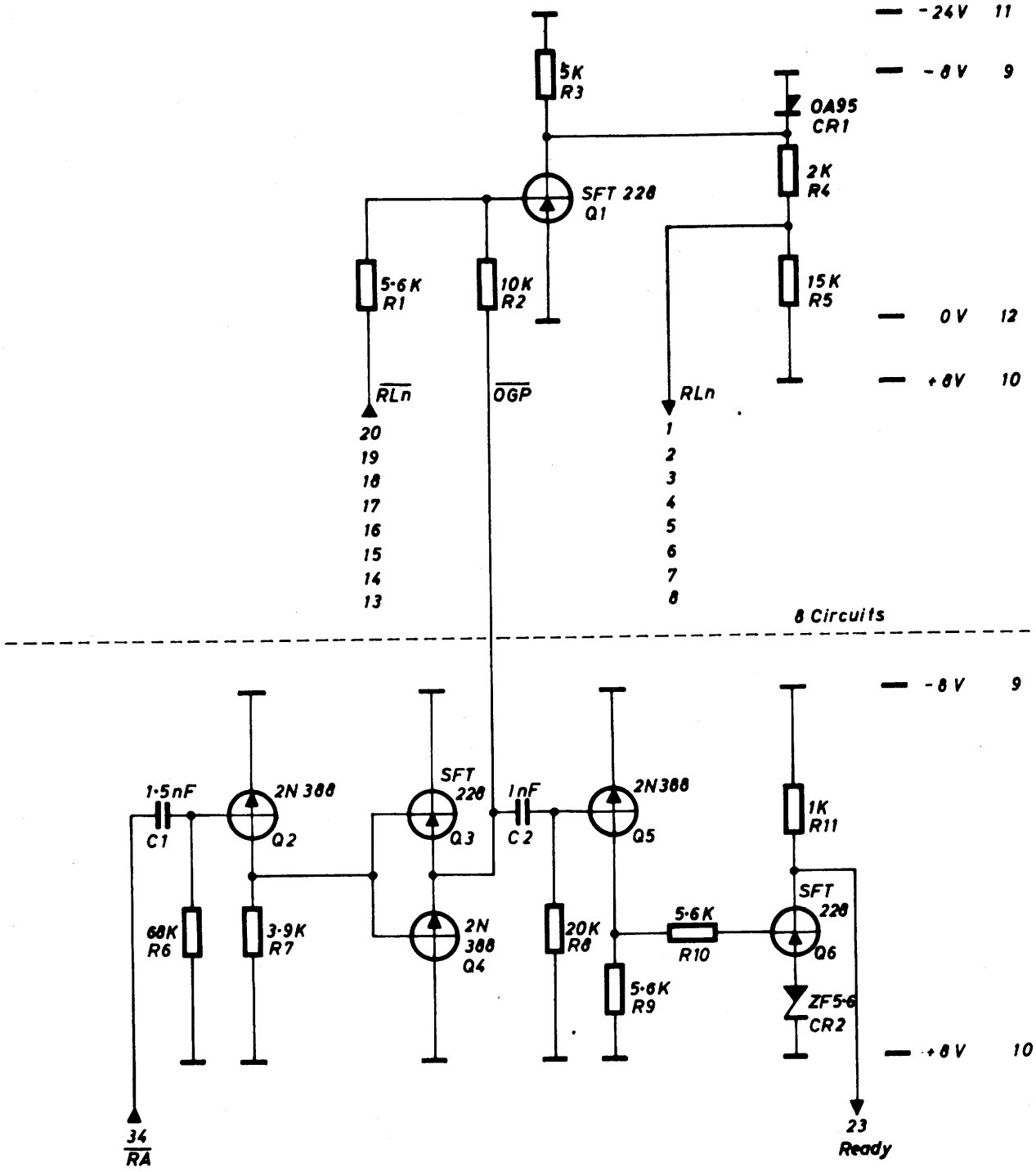


Unit: RC 2000	Designed B.N.	FERRIT MATRIX DECODING AT FRAME A.	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 27.6.1967
	Checked 3.12.1965.		Checked F.E. 1·9·67
	Last Revision		1 Sheets / Sheet 1
			A10-13

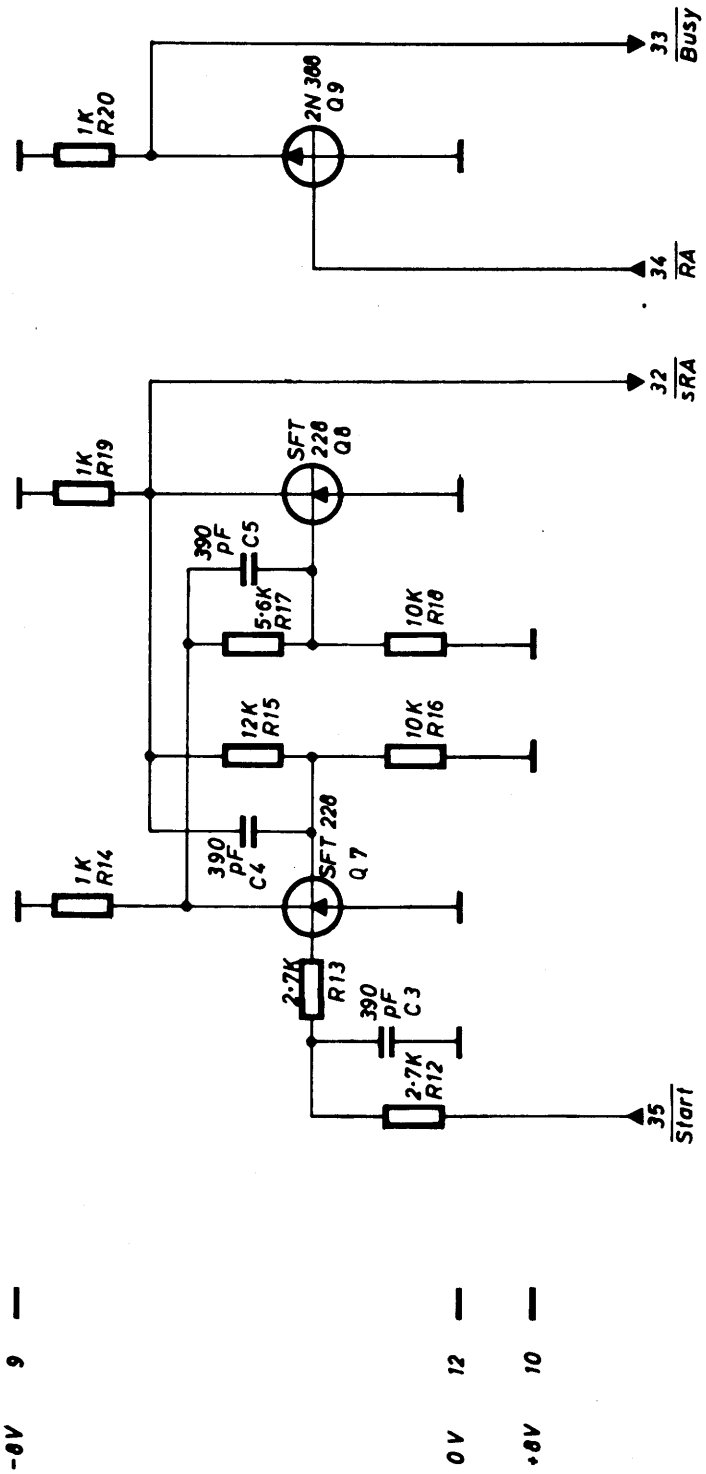


Unit: RC 2000	Designed A.N.G.	PCBA 1224 LAY OUT	Drawing No
A/S REGNECENTRALEN	Approved		Drawn by A.N.G. 1 11 67
	Checked 1 12 67		Checked B.J.L. 1 12 67
	Last Revision		Sheets / Sheet
			Page 35

Form 302-A-5.8.64

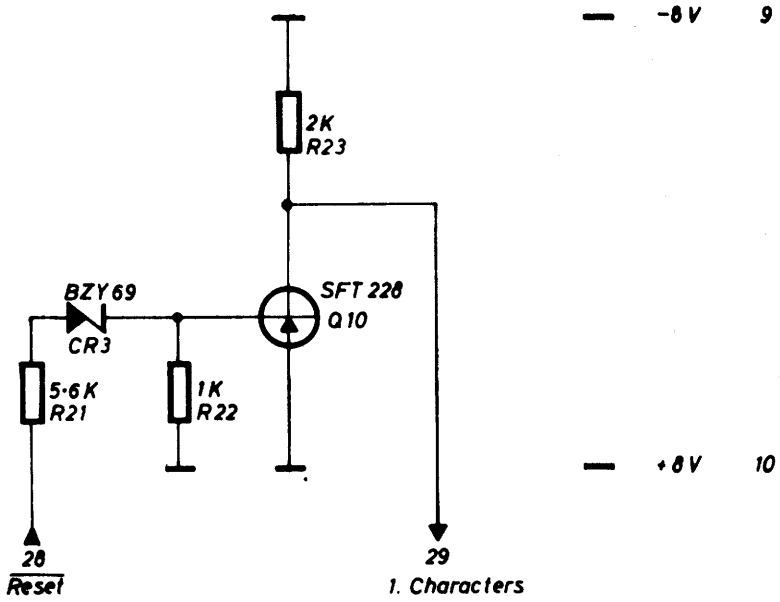


Unit: RC 2000	Designed B.N.	INTERFACE CIRCUITS RC2000 → GIER	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 22.6.1967
	Checked 3.12.1965		Checked F.E. 1·9·67
	Last Revision I.K. 10.11.67.		3 Sheets Sheet 1
			80 1224
			Page 36

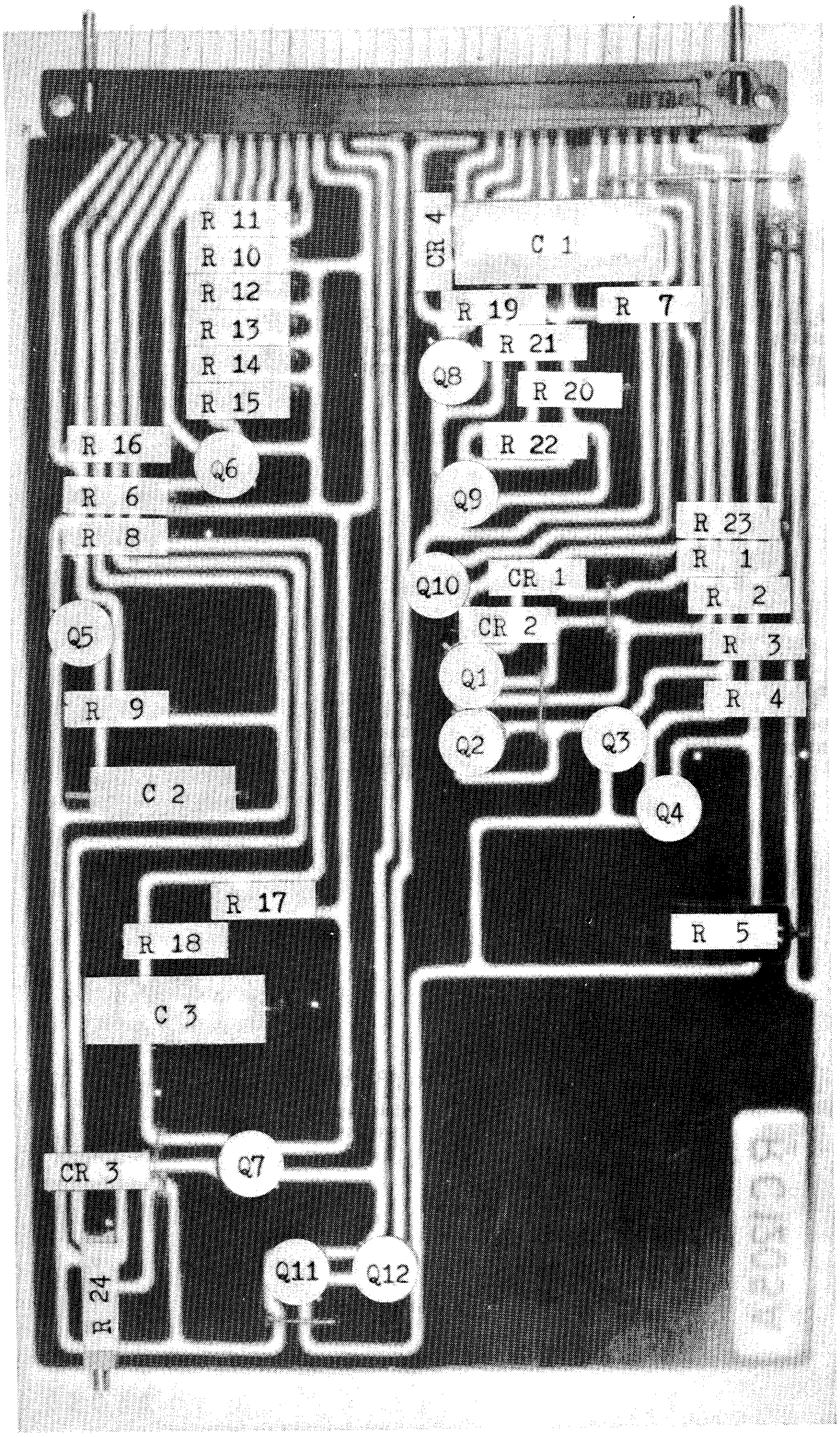


Unit: RC 2000	Designed B.N.	INTERFACE CIRCUITS RC2000→GIER	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 23.6.1967
	Checked 3.12.1965		Checked F.E. 1·9·67
	Last Revision I.K. 10.11.67.		3 Sheets Sheet 2
			B0 1224
			Page 37

1 Circuit

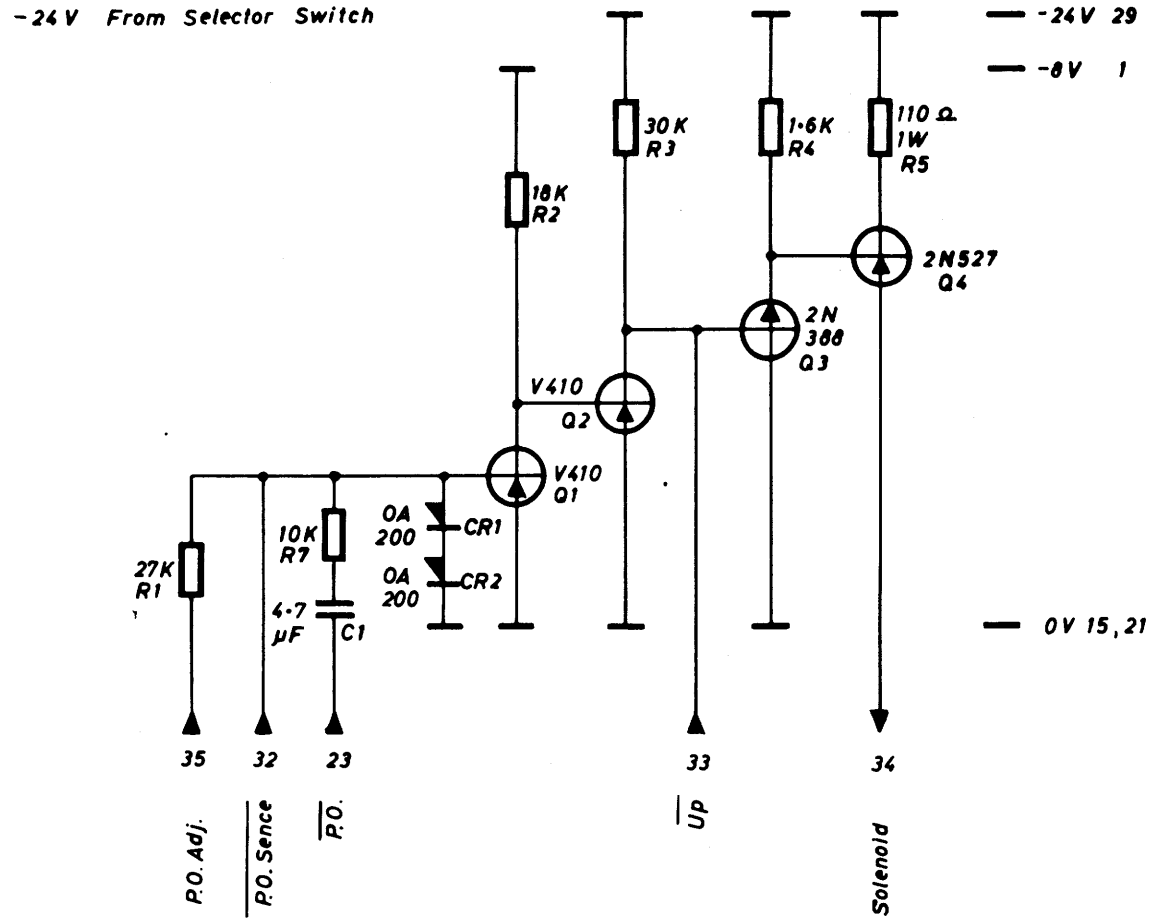


Unit: RC 2000	Designed B.N.	INTERFACE CIRCUITS RC 2000→GIER	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 23.6.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision I.K. 10.11.67.		3 Sheets / Sheet 3
			BO / 1224

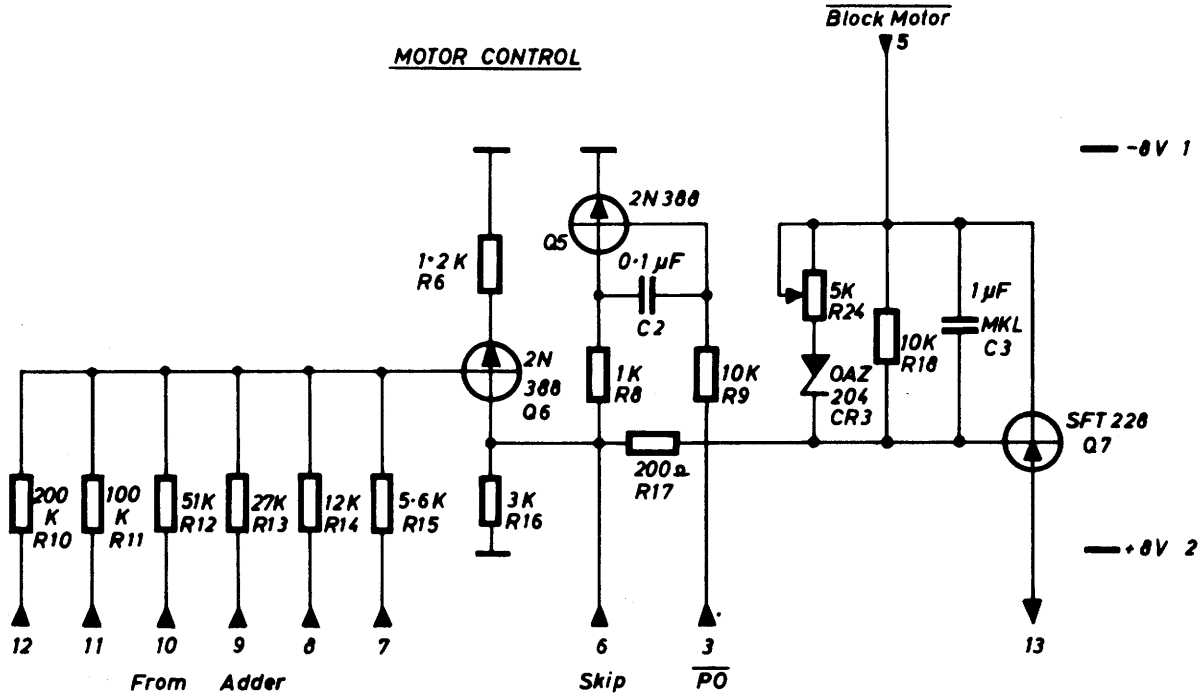


Unit: RC 2000	Designed A.N.G.	PCBA 1205A-1 LAY OUT	Drawing No
REGNECENTRALEN	Approved		Drawn by A.N.G. 1 11 67
	Checked 1 12 67		Checked B.J.L. 1 12 67
	Last Revision		___ Sheets / Sheet ___
			Page 39

PAPER OUT CONTROL

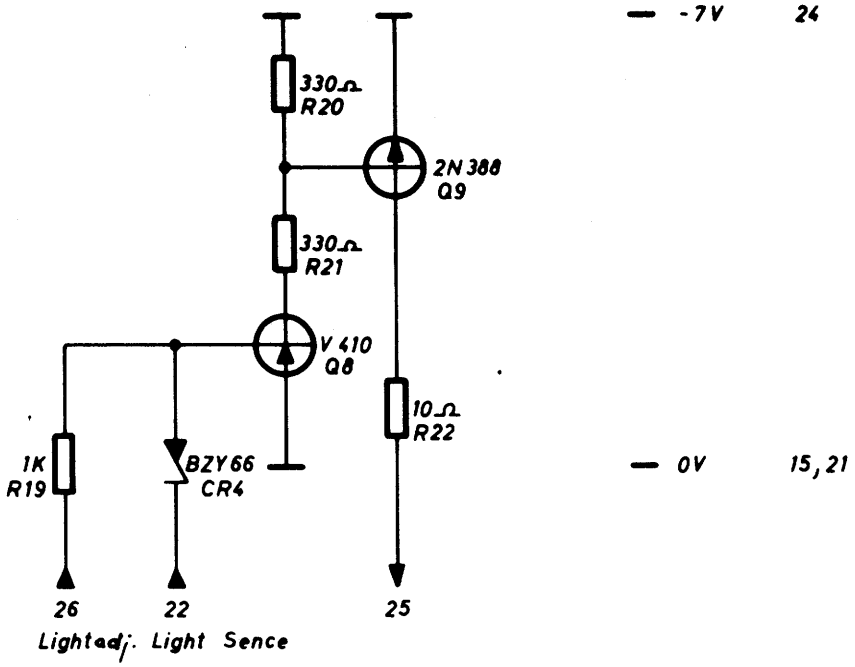


MOTOR CONTROL

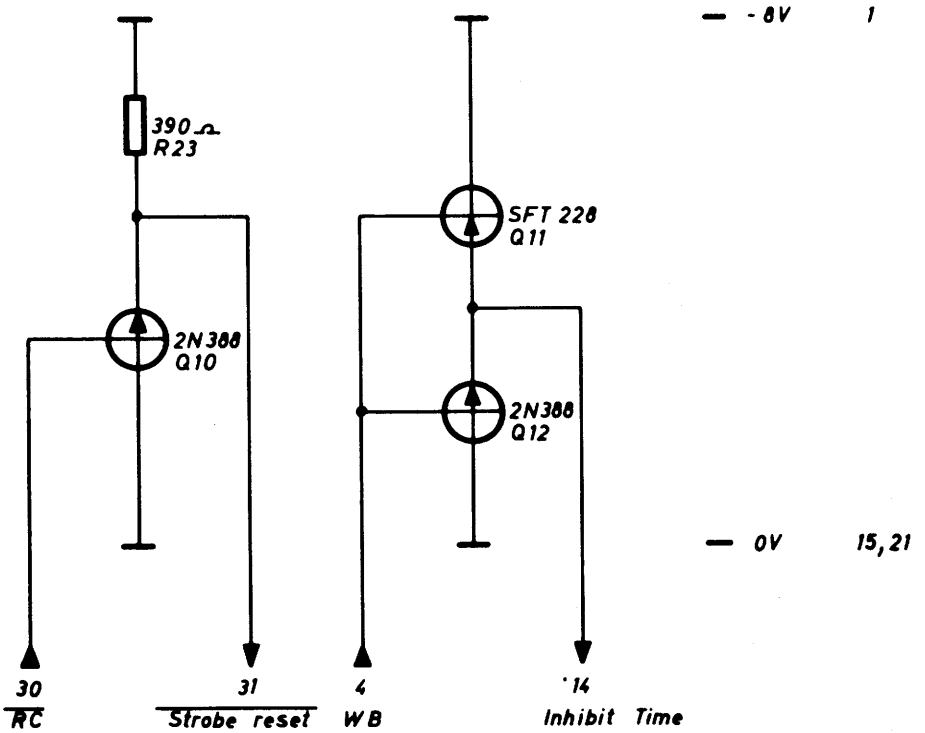


Unit: RC 2000	Designed B.N.	PAPER OUT CONTROL MOTOR CONTROL	Drawing No
REGNECENTRALEN	Approved		Drawn by I.K. 21.8.1967
	Checked 3.12.1965		Checked F.E. 1·9·67
	Last Revision I.K. 7.5.68		2 Sheets / Sheet 1
			B1 / 1205A-1

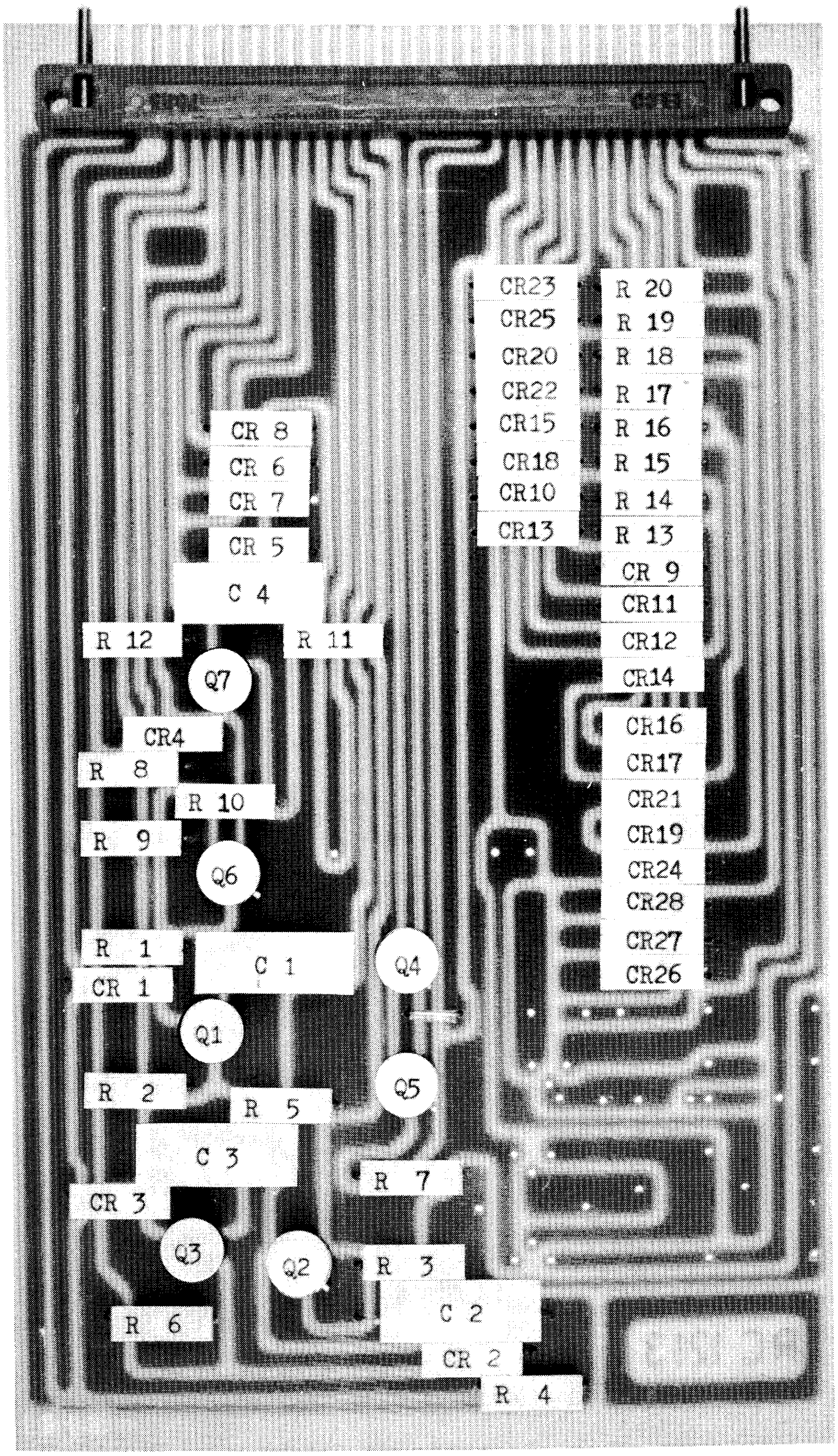
LAMP REGULATOR.



STROBE. INHIBIT PULSE.

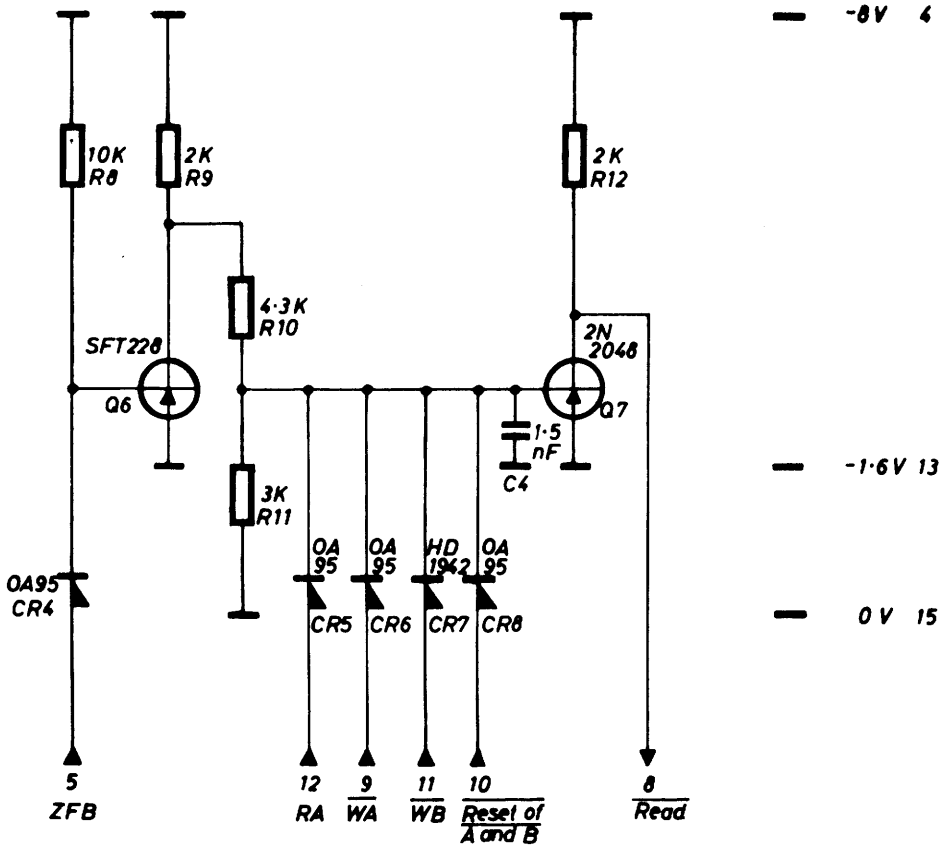


Unit: RC 2000	Designed B.N.	LAMP REGULATOR STROBE INHIBIT PULSE	Drawing No
REGNE CENTRALEN	Approved		Drawn by G.T. 20.4.67.
	Checked 3.12.65.		Checked E.K. 1.9.67
	Last Revision I.K. 10.11.67.		2 Sheets / Sheet 2
			B1 / 1205A-1
			Page 41

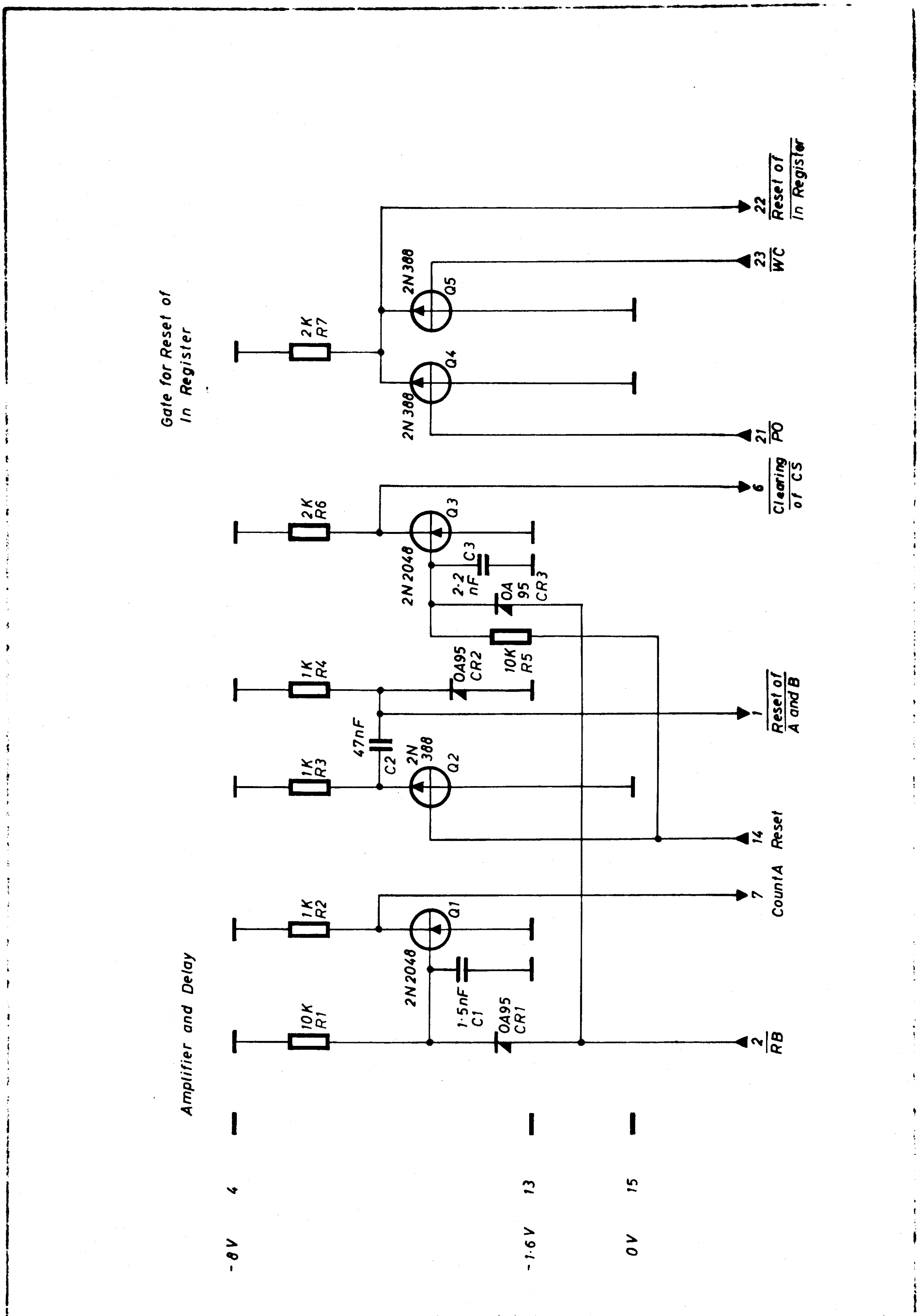


Unit: RC 2000	Designed A. N. G.	PCBA 1213 LAY OUT	Drawing No
REGNECENTRALEN	Approved		Drawn by A.N.G 1 11 67
	Checked 1 12 67		Checked B.J.L. 1 12 67
	Last Revision		___ Sheets / Sheet ___
			Page 42

Form 302-A-4-5.8.66



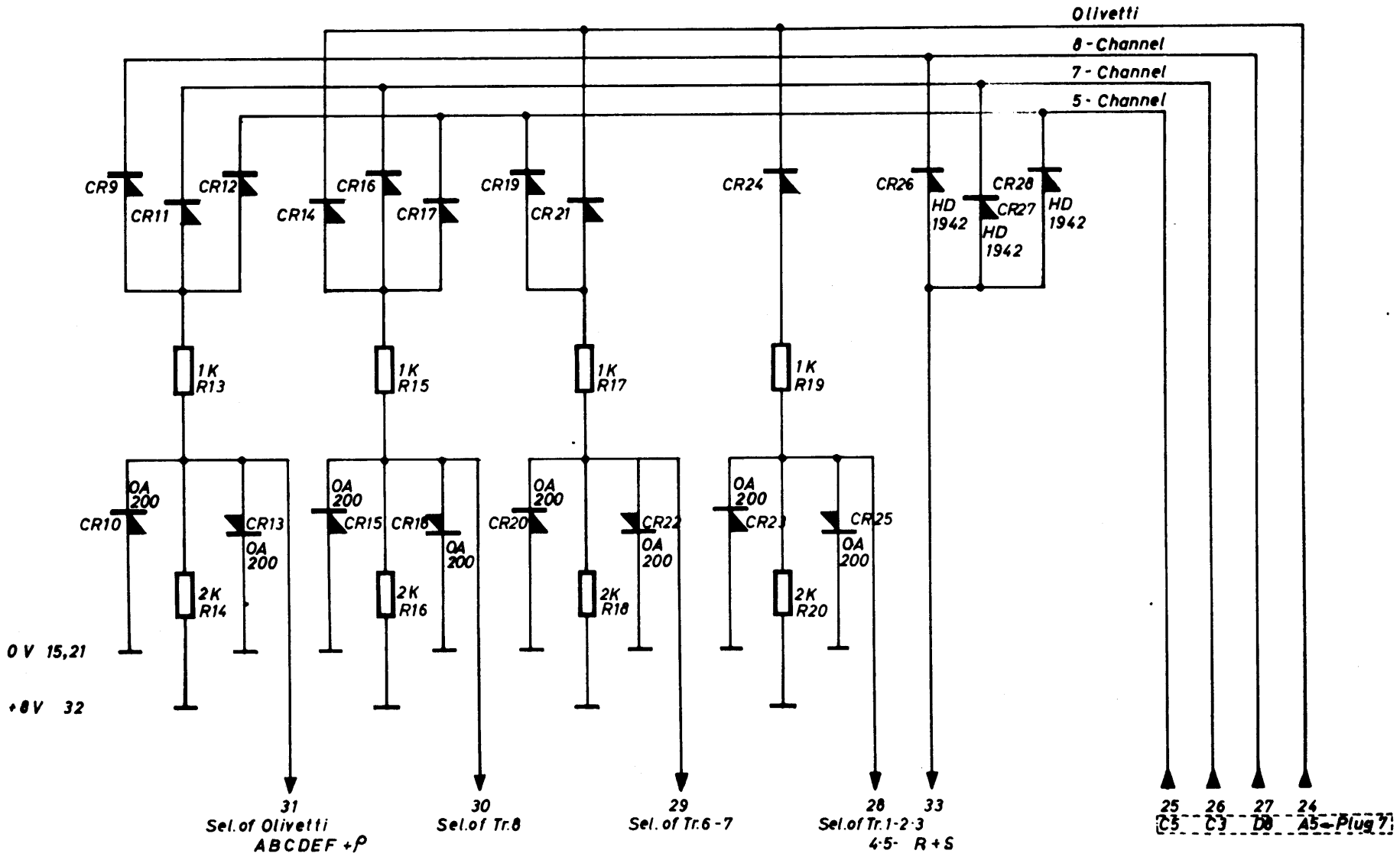
Unit: RC 2000	Designed B.N.	READ GATE	Drawing No
			Drawn by I.K. 27.6.1967
	Approved		Checked F.E. 1·9·67
REGNE CENTRALEN	Checked 3.12.1965		3 Sheets / Sheet 2
	Last Revision I.K. 7.5.1968		B2 / 1213

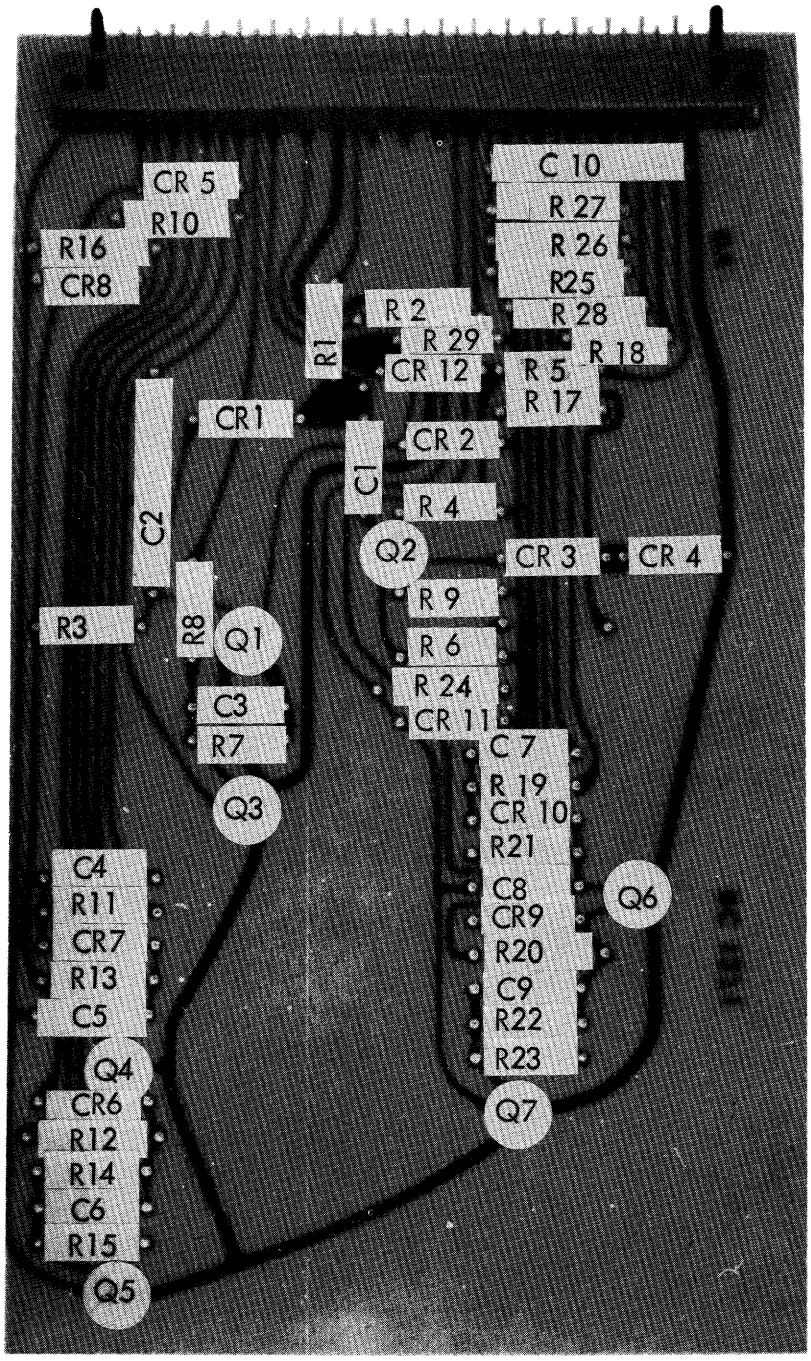


Unit RC 2000	Designed B.N.	AMPLIFIER AND DELAY GATE FOR RESET OF IN REGISTER	Drawing No
A/S REGNECENTRALEN	Approved		Drawn by I.K. 27.6.1967
	Checked 3.12.1965		Checked F.E. 1·6·67
	Last Revision 130270HAR		3 Sheets / Sheet 1
			B2 / 1213

SELECTOR CIRCUIT

Unmarked Resistors: 1/3W
— Diodes: OA95





Unit: RC 2000	Designed I.K.	PCBA 1371 LAY OUT	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 13.3.1969
	Checked		Checked O.S. 1.5.1969
	Last Revision		____ Sheets Sheet ____
			Page 46

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965

Last Revision

WA
WB
WC
Σ CHARACTERS

Drawing No

Drawn by I.K. 19.6.1967

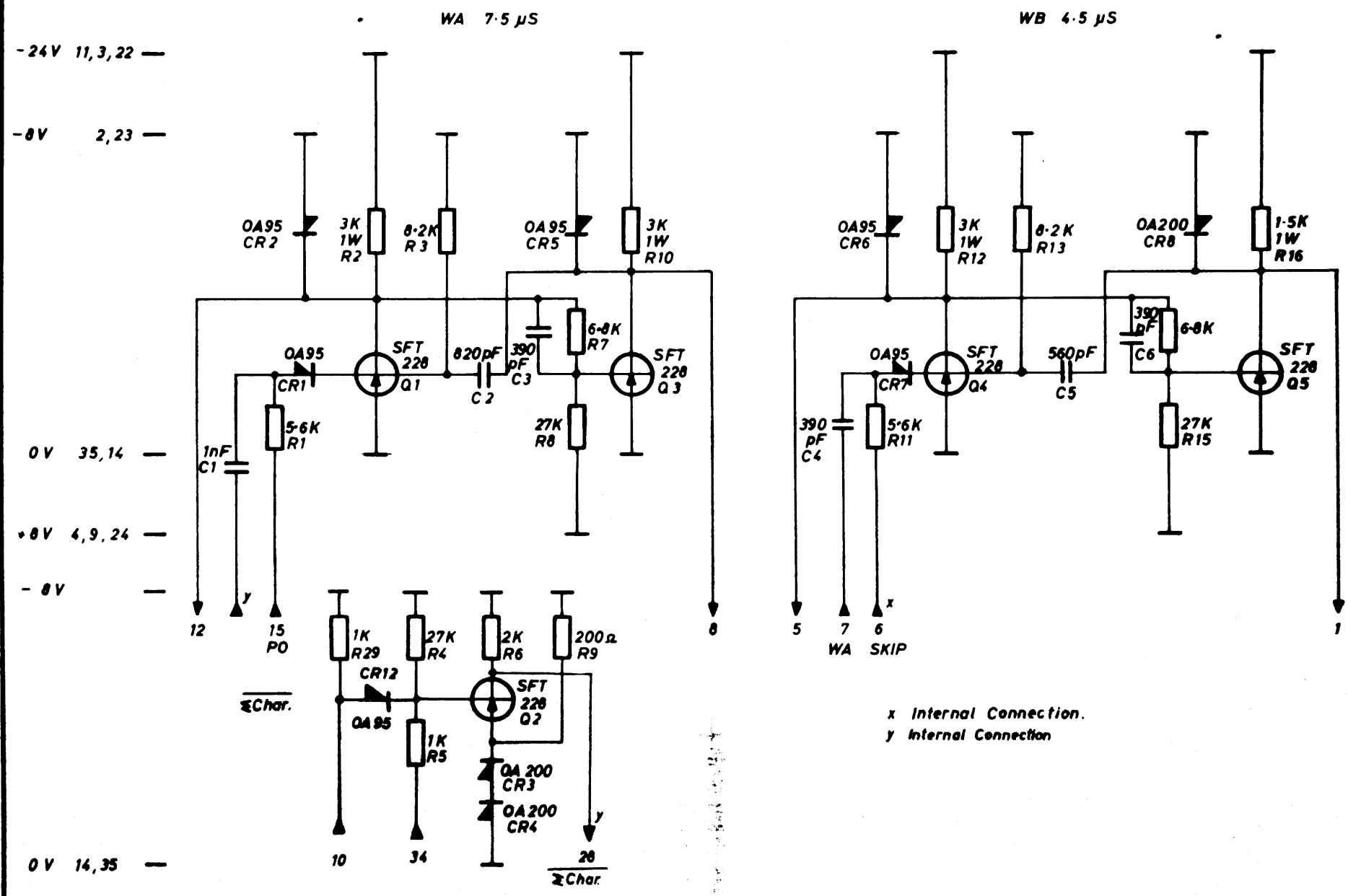
Checked F.E. 1.9.67

Sheets 2

Sheet 1

B3

TSM



REGNE CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.1965.

Last Revision

WA
WB
WC

Drawing No

Drawn by I.K. 19.6.1967.

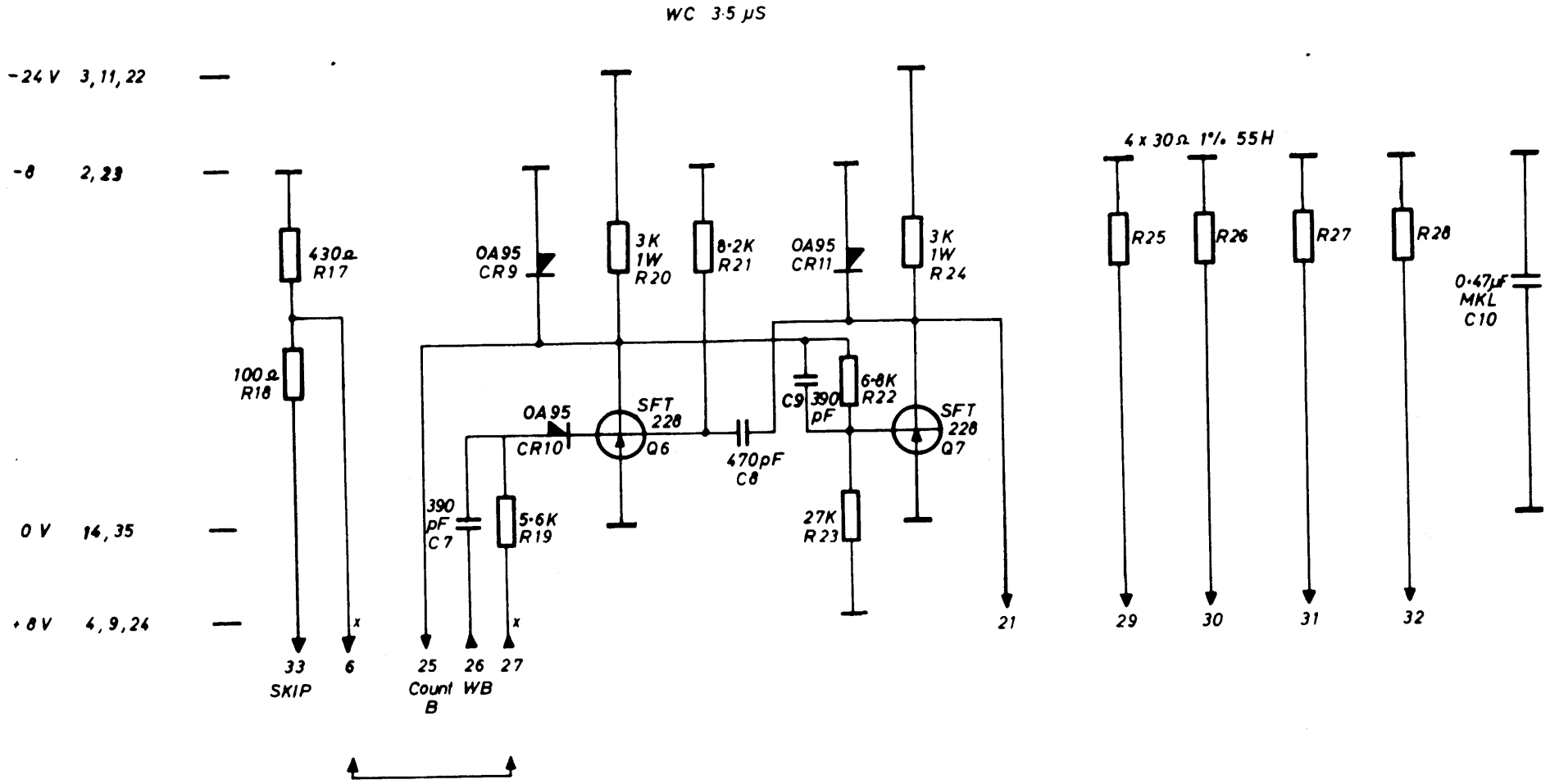
Checked F.E. 1.9.67

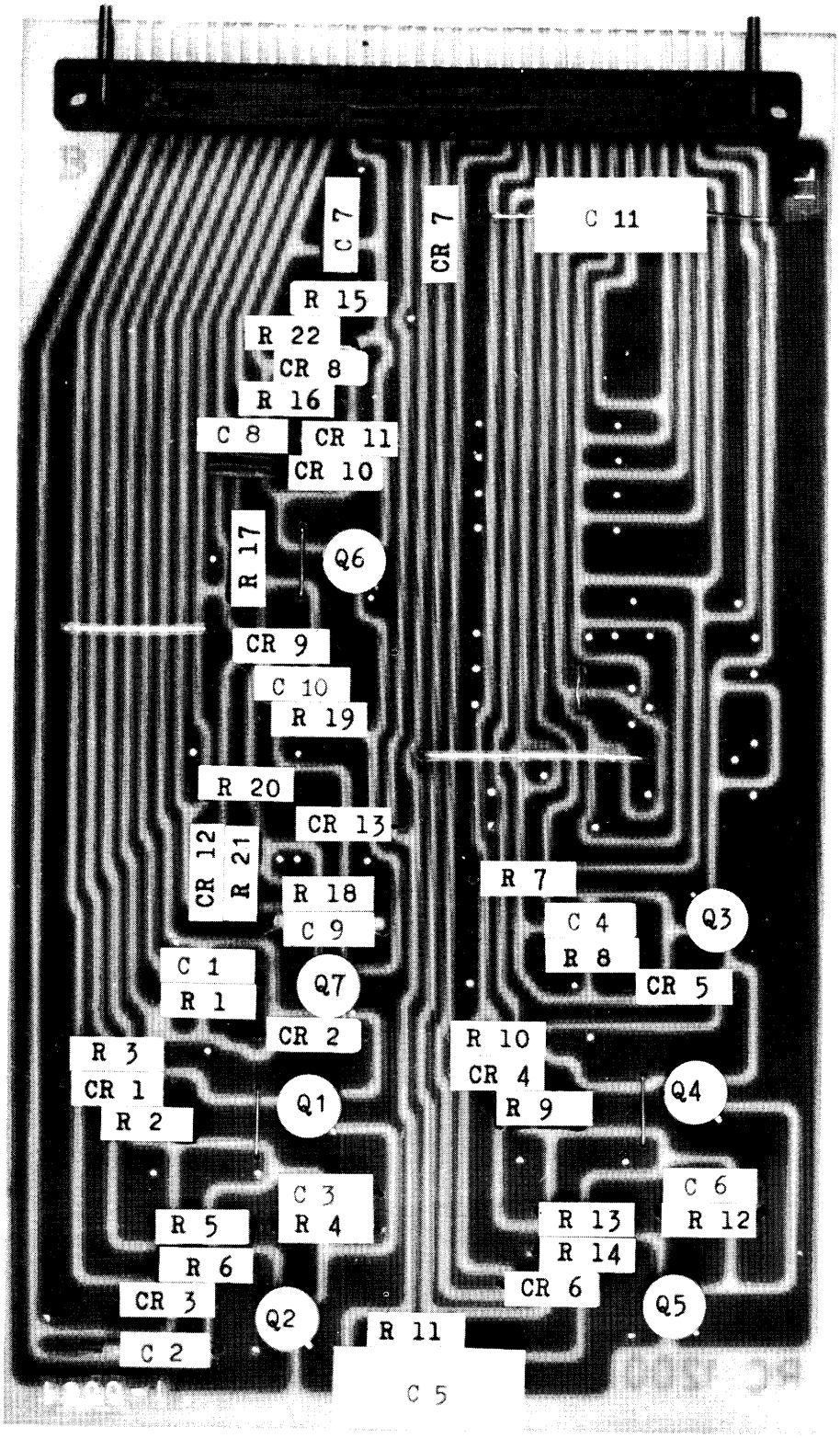
2 Sheets

Sheet 2

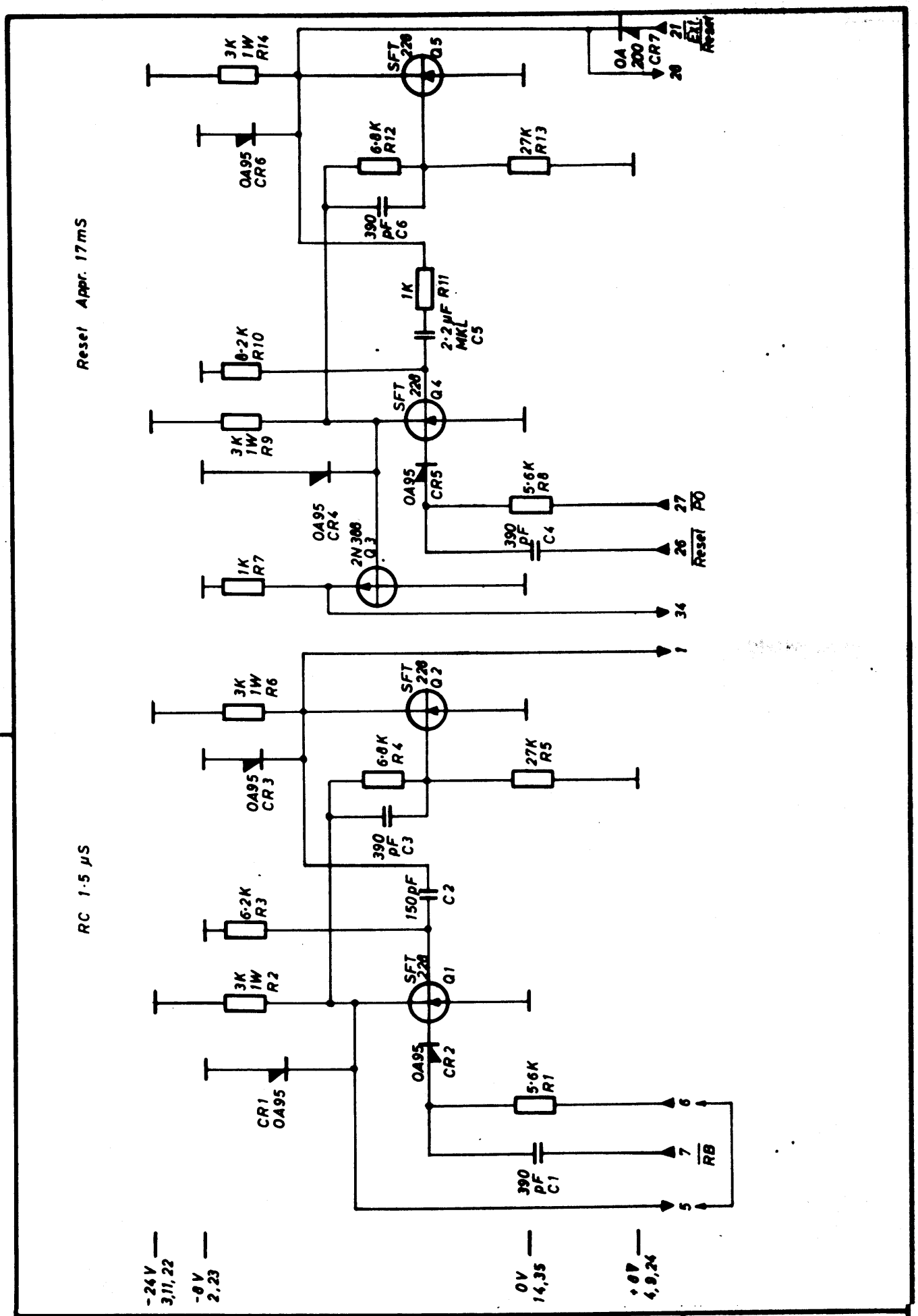
B3

1371



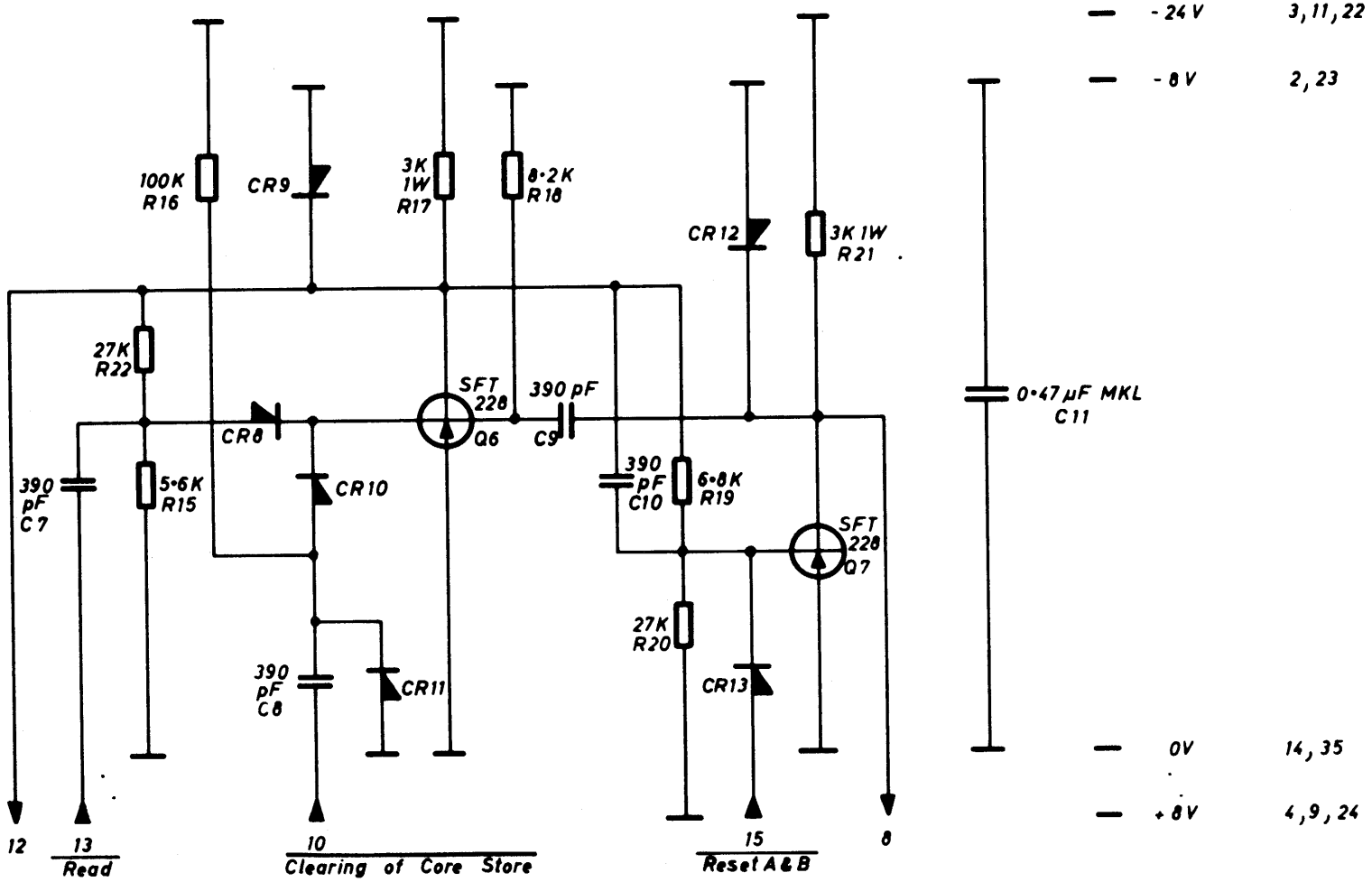


Unit: RC 2000	Designed A N. G.	PCBA 1200-3 LAY OUT	Drawing No
REGNE CENTRALEN	Approved		Drawn by AN.G. 1 11 67
	Checked 1 12 67		Checked B.J.L. 1 12 67
	Last Revision		____ Sheets Sheet ____
			Page 49



Unit: RC 2000	Designed B.N.	RB RC RESET	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 20.6.1967
	Checked 3.12.1965		Checked F.E. 1-9-67
	Last Revision 7.5.1968 I.K.		2 Sheets / Sheet 1
			B4 / 1200-3
			Page 50

RB. 3·5 μS.



Unmarked Diodes : OA 95

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision

RB RC RESET

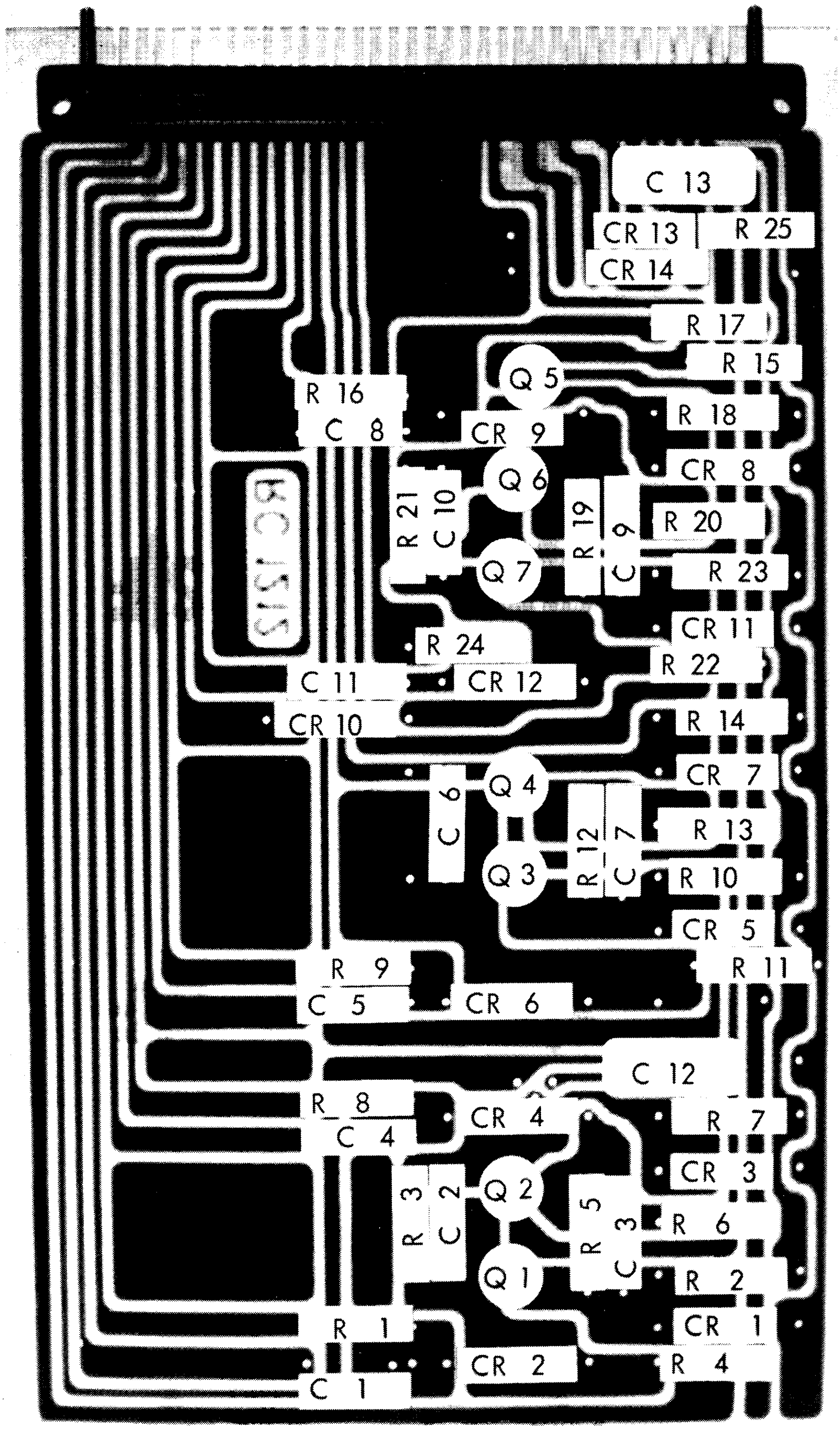
Drawing No

Drawn by G.T. 24.4.67.

Checked E.K. 1.9.67

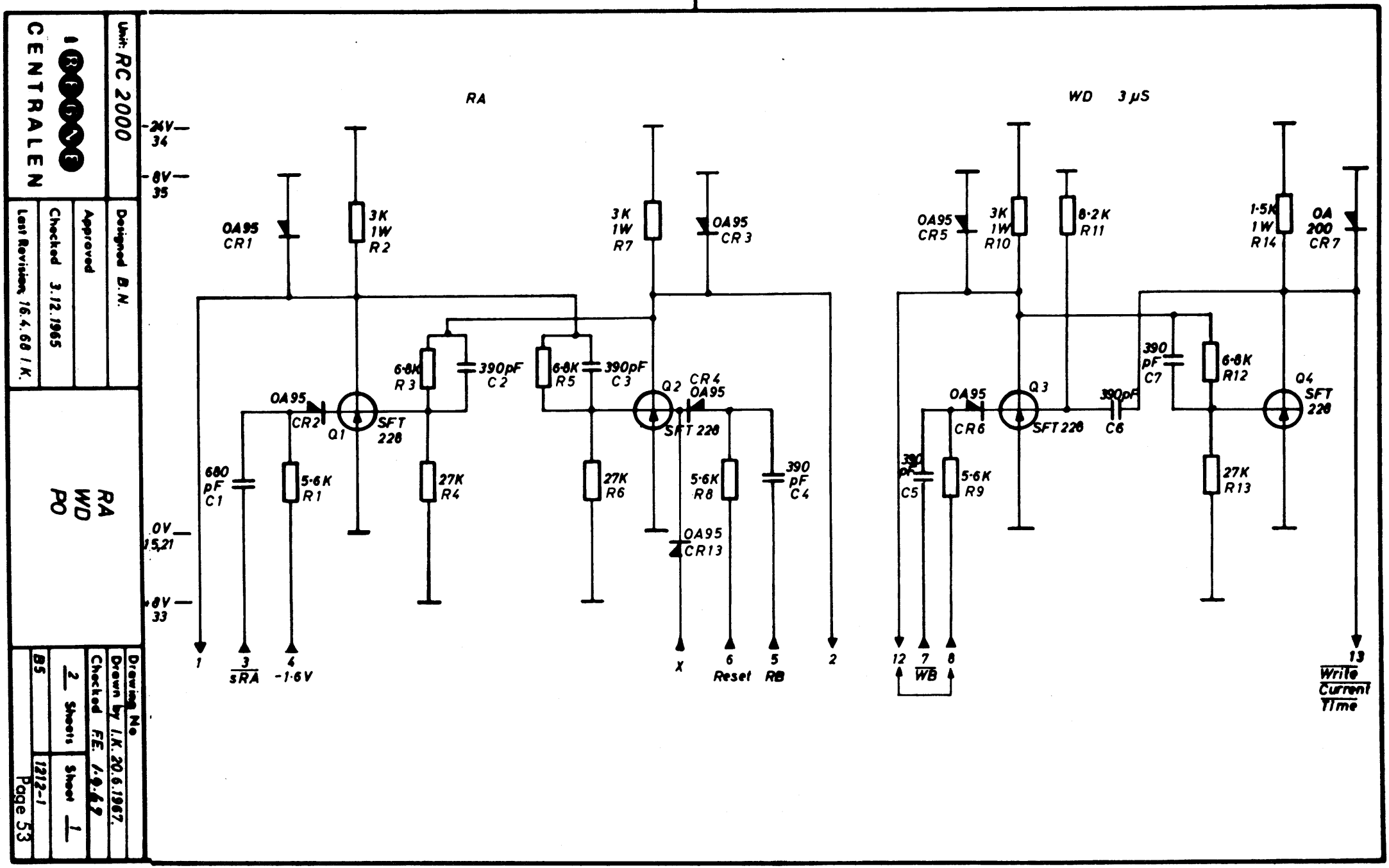
2 Sheets Sheet 2

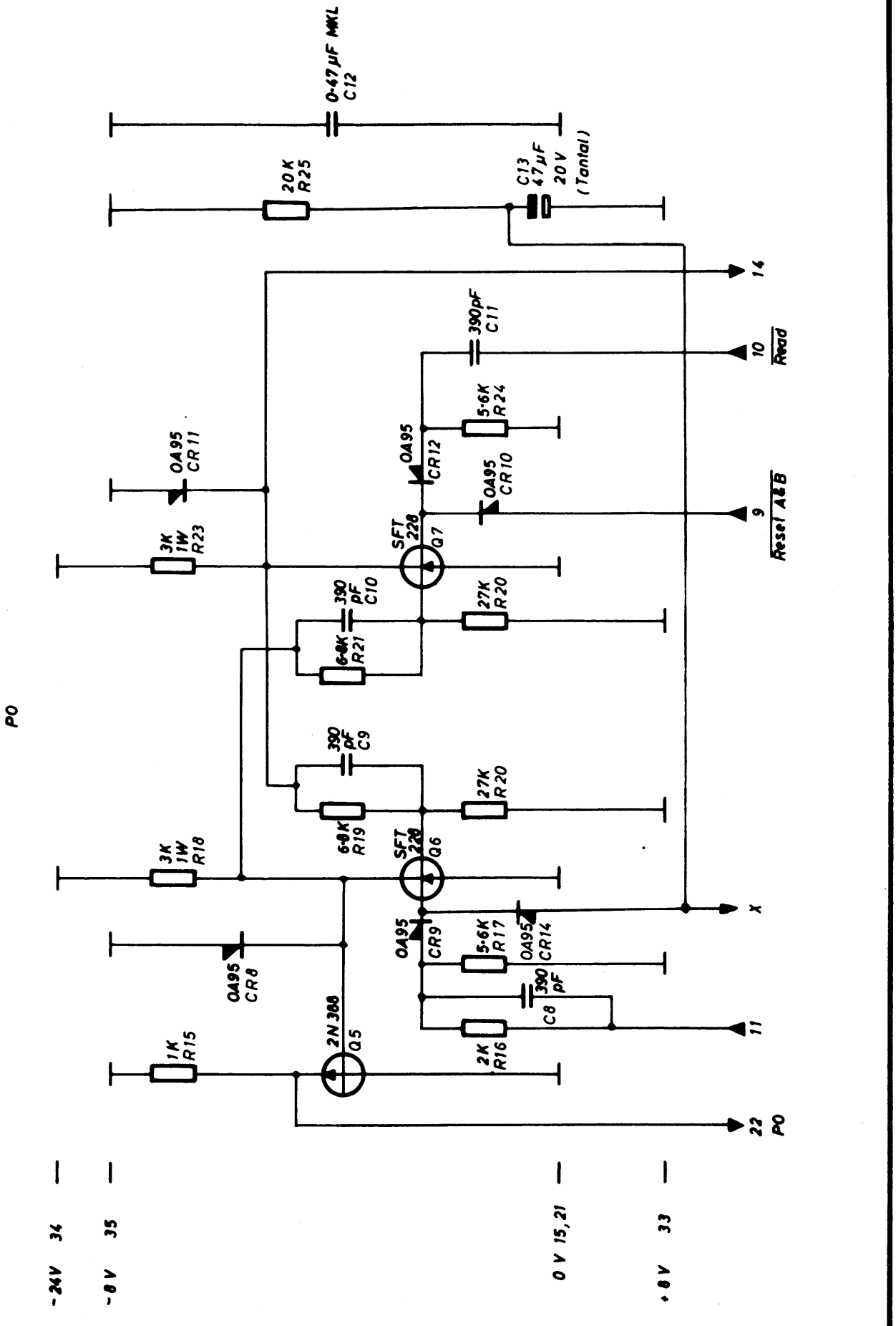
B4 1200-3



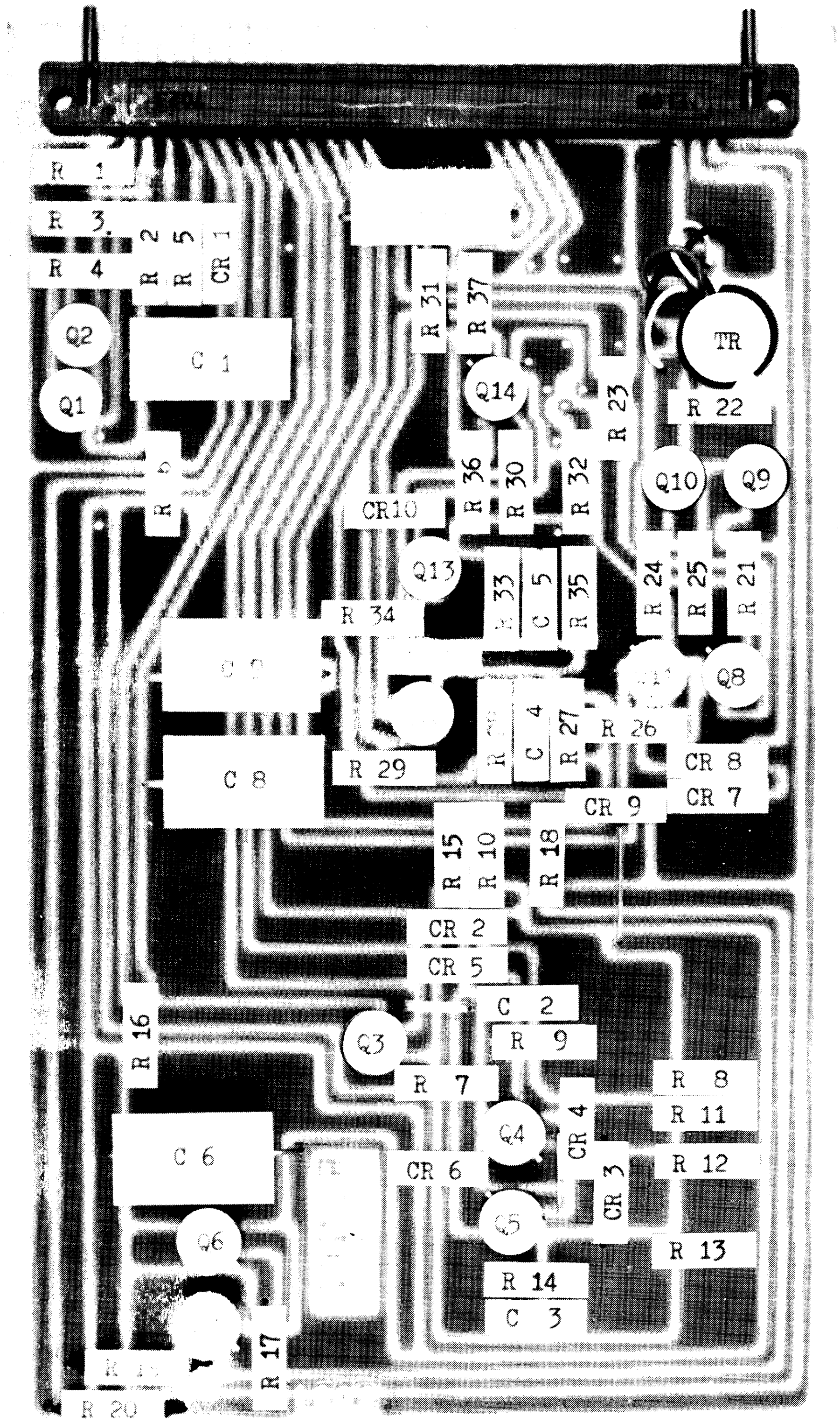
Unit: RC 2000 6	Designed A N. G.	PCBA 1212-1 LAY OUT	Drawing No
REGNECENTRALEN	Approved		Drawn by AN.G 1 11 67
	Checked 1 12 67		Checked BJL. 1 12 67
	Last Revision 18 4 68		___ Sheets / Sheet ___

Form 302-A-3.8.66


RA
WD 3 µS
-2V
34
-8V
35
0V
15,21
+8V
33
OA95
CR1
3K
1W
R2
3K
1W
R7
OA95
CR3
OA95
CR5
3K
1W
R10
8·2K
R11
1·5K
1W
R14
OA
200
CR7
6·8K
R3
390pF
C2
6·8K
R5
390pF
C3
390
pF
C7
6·8K
R12
OA95
CR2
Q1
SFT
228
Q2
CR4
OA95
SFT 228
OA95
CR6
Q3
SFT 228
390pF
C6
Q4
SFT
228
680
pF
C1
5·6K
R1
27K
R4
27K
R6
5·6K
R8
390
pF
C4
390
pF
C5
5·6K
R9
27K
R13
OA95
CR13
1
3
sRA
4
-1·6V
X
6
Reset
5
RB
2
12
7
WB
8
13
Write
Current
Time
CENTRALEN
Unit: RC 2000
Designed B.N.
Approved
Checked 3.12.1965
Last Revision 16.4.66 I.K.
RA
WD
PO
Drawing No
Drawn by I.K. 20.6.1967.
Checked F.E. 1-9-67
2 Sheets
Sheet 1
B5
1212-1

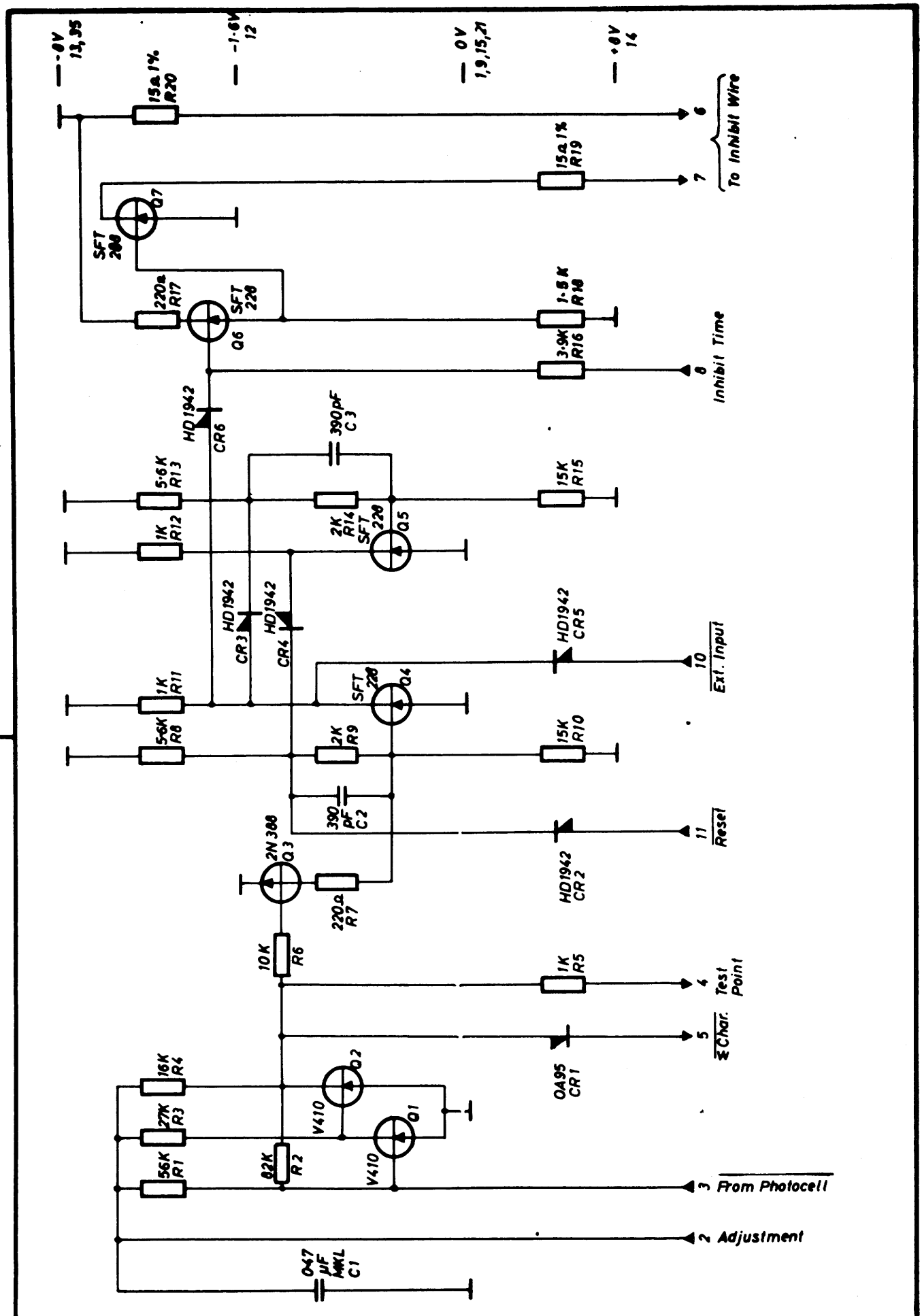


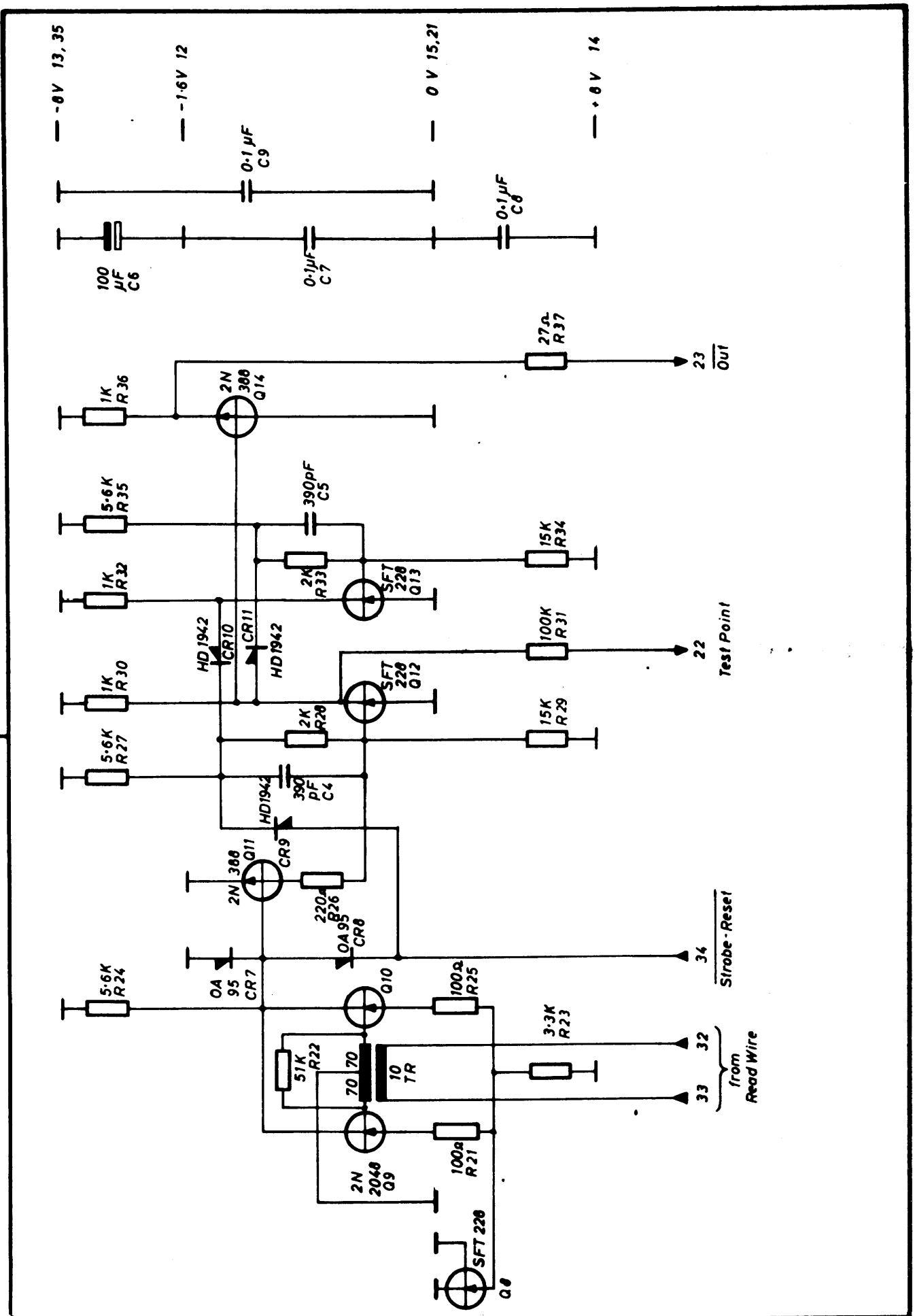
Unit: RC 2000	Designed B.N.	RA WD P0	Drawing No
			Drawn by I.K. 20.6.1967
	Approved		Checked F.E. 1·9·67
BEGNE CENTRALEN	Checked 3.12.1965		2 Sheets / Sheet 2
	Last Revision 16.4.68. I.K.		B5 / 1212-1



Unit: RC 2000	Designed A N. G.	PCBA 1202 LAY OUT	Drawing No
REGNECENTRALEN	Approved		Drawn by AN.G 1 11 67
	Checked 1 12 67		Checked BJL 1 12 67
	Last Revision		___ Sheets / Sheet ___

Form 305-A4-1.8.66


-8V 13,25
-1.6V 12
0V 1,9,15,21
+8V 14
15a 1% R20
15a 1% R19
6
7
To Inhibit Wire
Q7
SFT 208
220a R17
SFT 220
Q6
1.5K R18
3.9K R16
8
Inhibit Time
HD1942 CR6
390pF C3
5.6K R13
15K R15
1K R12
2K R14
SFT 220
Q5
HD1942 CR3
HD1942 CR4
HD1942 CR5
10
Ext. Input
1K R11
SFT 220
Q4
56K R8
2K R9
15K R10
390 pF C2
11
Reset
2N 388
Q3
HD1942 CR2
220a R7
10K R6
1K R5
4
Test Point
5
Char.
OA95 CR1
16K R4
Q2
27K R3
V410
Q1
56K R1
82K R2
V410
3
From Photocell
2
Adjustment
.047 µF MKL C1
Unit: RC 2000
BEGNE CENTRALEN
Designed B.N.
Approved
Checked 3.12.1965
Last Revision K.10.11.67.
IN-OUT REGISTER
Drawing No
Drawn by I.K. 21.6.1967
Checked F.E. 1.9.67
2 Sheets
Sheet 1
B6 - B13
1202
Page 56



Unit: RC 2000	Designed B.N.	IN-OUT REGISTER	Drawing No
REGNE CENTRALEN	Approved		Drawn by I.K. 16.6.1967
	Checked 3.12.1965		Checked F.E. 1·9·67
	Last Revision I.K. 10.11.67.		2 Sheets / Sheet 2
			B6 - B13 / 1202
			Page 57

Pin	Wired To	Wired To	Wired To	Name of Signal
A	B0-20			$\overline{\text{RL 0}}$
B	B0-19			$\overline{\text{RL 1}}$
C	B0-18			$\overline{\text{RL 2}}$
D	B0-17			$\overline{\text{RL 3}}$
E	B0-16			$\overline{\text{RL 4}}$
F	B0-15			$\overline{\text{RL 5}}$
H	B0-14			$\overline{\text{RL 6}}$
J	B0-13			$\overline{\text{RL 7}}$
K	B0-35			$\overline{\text{Start}}$
L	B0-23			Ready
M	B0-1			RL 0
N	B0-12	→		0 Volts
P	B0-2			RL 1
R				0 Volts
S	B0-3			RL 2
T				0 Volts
U	B0-4			RL 3
V				0 Volts
W	B0-5			RL 4
X				0 Volts
Y	B0-6			RL 5
Z				0 Volts
AA	B0-7			RL 6
BB				0 Volts
CC	B0-8			RL 7
DD	B7-15	→		0 Volts
EE	B0-26			0 V, 8-Chan.
FF	B0-24			0 V, 7-Chan.
HH	B0-22			0 V, 5 Chan.
JJ	B0-21			0 V, Olivetti
KK	B0-29			1. Character
LL	A0-11	J6-X		PO. x ZFB
MM	B0-33			$\overline{\text{Busy}}$
NN	B0-25			
PP	B5-22	J6-W		PO.
RR	B0-27			
SS	A0-25			ZFB to RC 3000
TT	B12-15			0 V Screen

Unit: RC 2000	Designed B.N.	Jack 1 for GIER and RC 3000	Drawing No Drawn by I.L. 6.2.67 Checked E.K. 6.2.67 1 Sheets, Sheet 1
REGNECENTRALEN	Approved Checked 3.12.65 Last Revision 30.11.67		Page 58

Pin	Wired To	Plug in RC 2000	Wired To	Name of Signal
A				
C				
B	B1-26-12	KK		One-hole drive
D	C2-17-3N	CC		RL 7 (EL)
E		DD		0 Volts
H				
F				
J	C2-17-4N	AA		RL 6 (X)
K		BB		0 Volts
M	C2-17-2	L		J (Ready)
L				
N	C2-17-5N	Y		RL 5(0)
P		Z		0 Volts
S	C2-3-7N	K		Z (Start)
R				
T	C2-17-6N	W		RL 4 (ch)
U		X		0 Volts
W				
V				
X	C2-17-3	U		RL 3 (8)
Y		V		0 Volts
AA				
ZZ				
BB	C2-17-4	S		RL 2 (4)
CC		T		0 Volts
EE				
DD				
FF	C2-17-5	P		RL 1 (2)
HH		R		0 Volts
KK				
JJ				
LL	C2-17-6	M		RL 0 (1)
MM		N		0 Volts
NN				
PP				
RR				
SS				
TT		Screen in RC 2000		
		Twisted pair.		

Unit: RC 2000	Designed B.N.	PLUG KB 8 (GIER) PLUG 1 (RC 2000)	Drawing No	
	Approved		Drawn by L.L.24.9.65.	
REGNECENTRALEN	Checked 3.12.65.		Checked F.E.4-4-66	
	Last Revision		1 Sheets	Sheet 1

Pin	Wired To	Wired To	Name of Signal
A	B6-3		$\overline{\text{Track 1}}$
B	B7-3		$\overline{\text{Track 2}}$
C	B2-31		Selct.of Oliv.A,B,C,D,E,F P
D	B8-3		$\overline{\text{Track 3}}$
E	B9-3		$\overline{\text{Track 4}}$
F	B2-30		Selct. of Track 8
H	B10-3		$\overline{\text{Track 5}}$
J	B11-3		$\overline{\text{Track 6}}$
K	B1-15		0 Volts
L	B12-3		$\overline{\text{Track 7}}$
M	B13-3		$\overline{\text{Track 8}}$
N	B2-28		Select.ofTrack1,2,3,4,5,R S
P	B1-32		PO Sence
R	B2-29		Select. of Track 6,7

Unit: RC 2000	Designed B.N.	Plug for Photodiodes Plug 2	Drawing No Drawn by L.N.L.27.6.67 Checked F.E. 1.9-67 1 Sheets / Sheet 1
REGNE CENTRALEN	Approved Checked 3.12.65 Last Revision		Page 60

Pin	Wired To	Wired To	Name of Signal
A	B6-4		Test Point 1
B	B6-2		Track1/A
C	B2-33		Pot. 1,2,3,4,5,6,P
D			
E	B7-4		Test Point 2
F	B7-2		Track 2/B
H			
J	B1-15		0 Volts
K	B8-2		Track 3/C
L	B8-4		Test Point 3
M			
N	B2-24	Plug7-A5	- 24 V Olivetti Tape
P	B9-2		Track 4/D
R	B9-4		Test Point 4
S			
T	B1-26		Light Adjustment
U	B10-2		Track 5/E
V	B10-4		Test Point 5
W	B1-33		UP Common
X	B11-4		Test Point 7
Y	B4-26		Reset
Z	B12-4		Test Point 7
AA	B11-2		Track 6/F
BB	B1-6		Skip N.O.
CC	B5-10		Read Common
DD	B13-4		Test Point 8
EE			
FF	B12-2		Track 7
HH	B0-9		-8V for Push Button
JJ	B1-21		0V for Push Button
KK	B5-34		-24 V DC
LL	B13-2		Track 8
MM	B3-33		Skip NC
NN			
PP			
RR	B1-35		P.O. Adjustment

Unit RC 2000	Designed B.N.	Plug for Push Button Unit Plug 3	Drawing No Drawn B.N. L. 27.6.67 Checked F.E. 1-9-67 1 Sheets / Sheet 1
REGNE CENTRALEN	Approved Checked 3.12.65 Last Revision		Page 61

Pin	Wired To	Wired To	Name of Signal
A	B1-24		Lamp (Collector)
B		C	
C	B4-3	B	- 24 Volts
D	B1-25		Lamp (Base)
E		F	
F	A7-28	E	- 8 Volts
H		J	
J	B7-12	H	- 1.6 Volts
K			
L	B1-5		Motor (Collector)
M	A7-19	S	
N	B7-14		+ 8 Volts
P	B1-13		Motor (Base)
R			
S	B6-21	M	0 Volts
T			
U			
V			
X			
W			

Unit RC 2000	Designed B.N.	Plug for Power Supply Plug 4	Drawing No Drawn by M.L. 27.6.67 Checked F.E. 1.9.67 1 Sheets / Sheet 1
REGNE CENTRALEN	Approved Checked 3.12.65 Last Revision		Page 62

Pin	Wired To	Wired To	Name of Signal
A	Motor -	B	
B	A		
C			
D			
E	Motor +	K	
F			
H	Lamp -	J	
J	H		
K	E		
L	Lamp +	R	
M			
N			
P			
R	L		
S			
T			
U			
V			
X			
W			

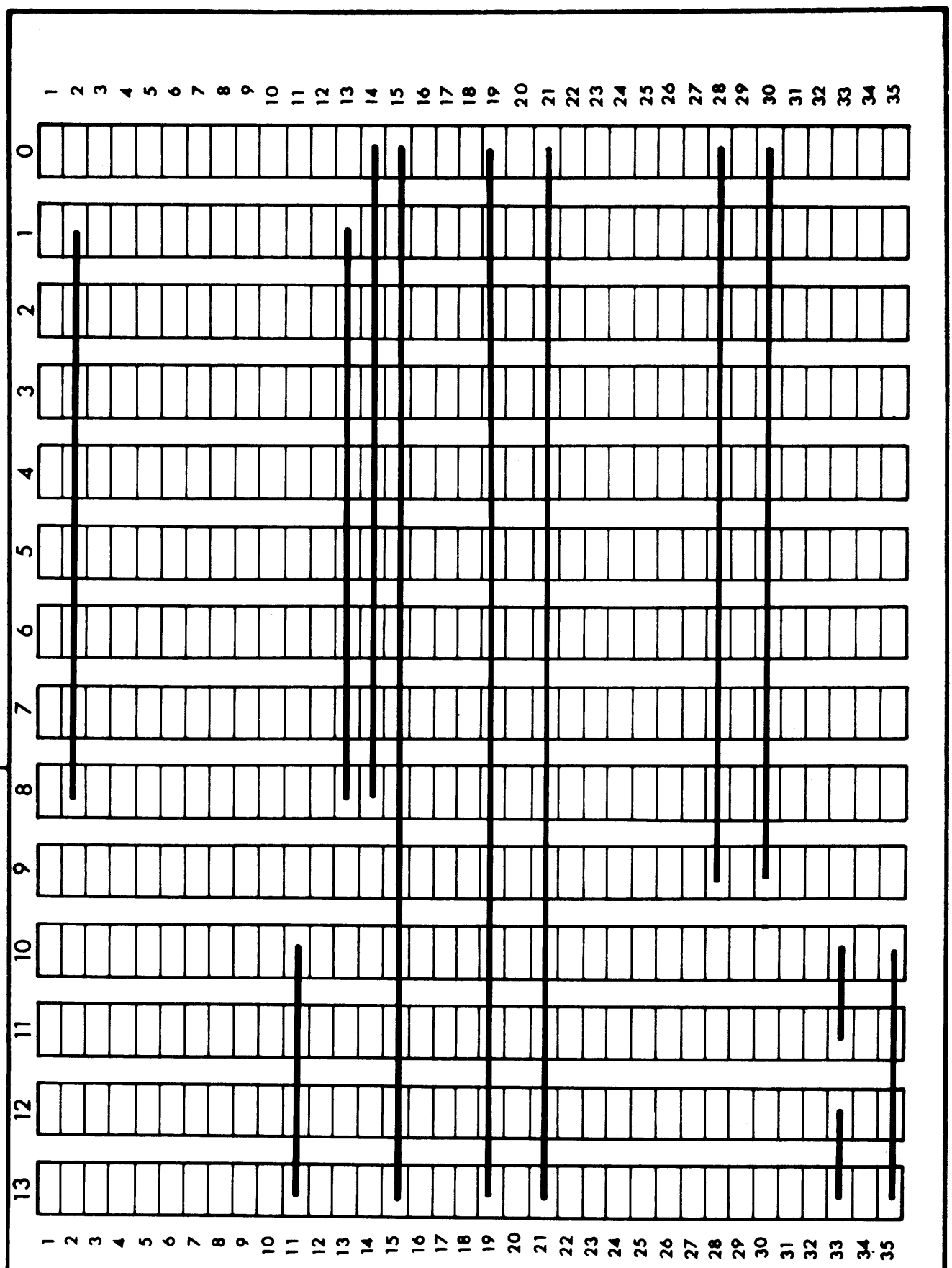
Unit RC 2000	Designed B.N.	Plug 5 Plug between Lamp, Motor, and Power Supply.	Drawing No Drawn B.N. 27.6.67 Checked F.E. 1-9-67 1 Sheets / Sheet 1
REGNE CENTRALEN	Approved Checked 3.12.65 Last Revision		Page 63

Pin	Wired to	Wired to	Name of Signal
A	B6-10		$\overline{IR1}$
B	B6-19		0 Volts
C	B7-10		$\overline{IR2}$
D			0 Volts
E	B8-10		$\overline{IR3}$
F			0 Volts
H	B9-10		$\overline{IR4}$
J			0 Volts
K	B10-10		$\overline{IR5}$
L			0 Volts
M	B11-10		$\overline{IR6}$
N			0 Volts
P	B12-10		$\overline{IR7}$
R			0 Volts
S	B13-10		$\overline{IR8}$
T			0 Volts
U	B3-10		$\overline{\leq Characters}$
V	B3-14		0 Volts
W	J1-PP		PO
X	J1-LL		POxZFB
Y			
Z			
AA	A0-25		ZFB*
BB	B2-5		ZFB*
CC	A1-3		Adder 128
DD			
EE	B4-21		$\overline{Ext.\ Reset}$
FF			
HH	A0-23		$\overline{Ext.\ Control}$
JJ			
KK			
LL			
MM	B12-35		-8 Volts
NN	B9-15		0 Volts
PP	B13-14		+8 Volts
RR	B4-17		-24 Volts
SS			
TT	B13-19		Screen

Unit: RC 2000	Designed BN	Plug for Input Plug 6	Drawing No Drawn by ERC 5.9.69 Checked
REGNE CENTRALEN	Approved Checked 3.12.65 Last Revision		1 Sheets Sheet 1

Pin	Wired To	Wired To	Name of Signal
A1	B1-22		Photocelle for Light Adj.
A3	B8-14		+ 8 Volts for Light Adj.
A5	Plug 3-N		-24 Volts Olivetti Tapes
A7	B0-26		0 Volts for 8-Channel
B2	B1-34		Solenoid
B4	B1-33		Door Switch
B6	B5-15		0 Volts
B8			
C1	B0-22		0 Volts for 5-Channel
C3	B2-26		- 24 Volts for 7-Channel
C5	B2-25		- 24 Volts for 5-Channel
C7	B0-21		0 Volts for Olivetti
D2	B3-11		- 24 Volts DC
D4	B0-24		0 Volts for 7-Channel
D6	B1-29		- 24 Volts*
D8	B2-27		- 24 Volts for 8-Channel

Unit RC 2000	Designed B.N.	Plug for Tape width Selector Plug 7	Drawing No Drawn B.N. L. 27.6.67 Checked F.E. 1.8.67 1 Sheets Sheet 1
REGNE CENTRALEN	Approved Checked 3.12.65 Last Revision		Page 65



Unit: RC 2000	Designed B.N.	Crosswiring at Frame A	Drawing No
REGNECENTRALEN	Approved		Drawn by L.N.L. 5.9.67
	Checked 3.12.65		Checked F.E. 5.9.67
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			Page 66

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1						1
2						2
3						3
4						4
5						5
6						6
7						7
8						8
9						9
10						10
11		P1-LL			P.O. • ZFB	11
12		B3-15			P.O.	12
13		A1-2			ZFB	13
14	+ 8 Volts			-x	+ 8 Volts	14
15	0 Volts			-x	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x	0 Volts	19
20						20
21	0 Volts			-x	0 Volts	21
22		B0-28			Reset	22
23		P6-HH			Ext. Control	23
24		B1-5			Block Motor	24
25		P6-AA	P1-SS		ZFB *	25
26						26
27						27
28	- 8 Volts			-x	- 8 Volts	28
29		B2-5			ZFB *	29
30	- 24 Volts			-x	- 24 Volts	30
31	- 24 Volts	B2-27			- 24 Volts Block 8 Chan.	31
32	- 24 Volts	B2-26			- 24 Volts Block 7 Chan.	32
33	- 24 Volts	B2-24			- 24 Volts Block Olivetti	33
34	- 24 Volts	B2-25			- 24 Volts Block 5 Chan.	34
35	- 1,6 Volts	B0-31			- 1,6 Volts	35

pos.	A0	1227

CENTRALEN

REGNE

Unit: RC 2000

Designed B.N.

Approved

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1 Sheets

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A0

1227

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CENTRALEN

BEGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision

Wiring Schedule

Drawing No

Drawn by G.T. 16.6.67.

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1 Sheets

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A1

1201

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2		A0-13		-x	ZFB	2
3		B1-7	Plug 6-CC			3
4		A2-7				4
5		A2-8				5
6						6
7						7
8						8
9						9
10						10
11		A2-34				11
12		A2-26				12
13				-x	$\overline{\text{Reset}}$	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts	A1-19		-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	A1-15		-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A12-1				22
23						23
24						24
25						25
26						26
27		A12-34				27
28	- 8 Volts			-x-	- 8 Volts	28
29						29
30	- 24 Volts			-x-	- 24 Volts	30
31						31
32		A10-1				32
33		A10-34				33
34						34
35						35

pos.	
A1	1201

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

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Wiring Schedule

Drawing No

Drawn by G.T. 16.6.67

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1 Sheets

Sheet 1

A2

1202

Page 69

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3		B1-8				3
4		A3-7				4
5		A3-8				5
6						6
7		A1-4				7
8		A1-5				8
9						9
10						10
11		A3-34				11
12		A3-26				12
13				-x-	$\overline{\text{Reset}}$	13
14	+ 8 Volts	B3-24		-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A12-22				22
23						23
24						24
25						25
26		A1-12				26
27		A12-14				27
28	- 8 Volts			-x-	- 8 Volts	28
29						29
30	- 24 Volts			-x-	- 24 Volts	30
31						31
32		A10-22				32
33		A10-14				33
34		A1-11				34
35						35

pos.	A2	1202

CENTRALEN — REGNE

Unit: RC 2000

Designed B.No.

Approved

Checked 3.12.65.

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A3

1201

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3		B1-9				3
4		A4-7				4
5		A4-8				5
6						6
7		A2-4				7
8		A2-5				8
9						9
10						10
11		A4-34				11
12		A4-26				12
13		B2-10		-x-	Reset	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A12-23				22
23						23
24						24
25						25
26		A2-12				26
27		A12-13				27
28	- 8 Volts			-x-	- 8 Volts	28
29						29
30	- 24 Volts			-x-	- 24 Volts	30
31						31
32		A10-23				32
33		A10-13				33
34		A2-11				34
35						35

pos.	
A3	1201.

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

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Wiring Schedule

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Sheets 1

Sheet 1

A4

1201

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3		B1-10				3
4		A5-7				4
5		A5-8				5
6						6
7		A3-4				7
8		A3-5				8
9						9
10						10
11		A5-34				11
12		A5-26				12
13				-x-	$\overline{\text{Reset}}$	13
14	+ 8 Volts	B5-3		-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A12-24				22
23						23
24						24
25						25
26		A3-12				26
27		A12-12				27
28	- 8 Volts	B4-2		-x-	- 8 Volts	28
29						29
30	- 24 Volts	B4-22		-x-	- 24 Volts	30
31						31
32		A10-24				32
33		A10-12				33
34		A3-11				34
35						35

pos.	
A4	1201

CENTRALEN — BERGNE

Unit: RC 2000

Designed B.N.

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1 Sheets

Sheet 1

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3		B1-11				3
4		A6-7				4
5		A6-8				5
6						6
7		A4-4				7
8		A4-5				8
9						9
10						10
11		A6-34				11
12		A6-26				12
13				-x-	$\overline{\text{Reset}}$	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A13-1				22
23						23
24						24
25						25
26		A4-12				26
27		A13-34				27
28	- 8 Volts			-x-	- 8 Volts	28
29						29
30	- 24 Volts	B5-34		-x-	- 24 Volts	30
31						31
32		A11-1				32
33		A11-34				33
34		A4-11				34
35						35

pos.	
A5	1201

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3		B1-12				3
4		A7-7				4
5		A7-8				5
6						6
7		A5-4				7
8		A5-5				8
9						9
10						10
11		A7-34				11
12		A7-26				12
13				-x-	Reset	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	A6-21		-x-	0 Volts	19
20						20
21	0 Volts	A6-19		-x-	0 Volts	21
22		A13-22				22
23						23
24						24
25						25
26		A5-12				26
27		A13-14				27
28	- 8 Volts			-x-	- 8 Volts	28
29						29
30	- 24 Volts	B5-17		-x-	- 24 Volts	30
31						31
32		A11-22				32
33		A11-14				33
34		A5-11				34
35						35

pos.	
A6	1201

CENTRALEN

REGNE

Unit: RC 2000

Designed B.N.

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Last Revision

Wiring Schedule

Drawing No

Drawn by E.T. 19.6.67.

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1 Sheets

Sheet 1

A6

1201

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3						3
4		A8-7				4
5		A8-8				5
6						6
7		A6-4				7
8		A6-5				8
9						9
10						10
11		A8-34				11
12		A8-26				12
13				-x-	Reset	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	P3-J		-x-	0 Volts	19
20						20
21	0 Volts	P4-M		-x-	0 Volts	21
22		A13-23				22
23						23
24						24
25						25
26		A6-12				26
27		A13-13				27
28	- 8 Volts	P4-F		-x-	- 8 Volts Power Supply	28
29						29
30	- 24 Volts			-x-	- 24 Volts	30
31						31
32		A11-23				32
33		A11-13				33
34		A6-11				34
35						35

pos.	
A7	1201

CENTRALEN BEGNE

Unit: RC 2000

Designed B.N.

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Wiring Schedule

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Sheet 1

A7 1201

PIN	Special Wire	Wired To	Wired To	- - x -	Name of Signal	PIN
1						1
2				-x-	ZFB	2
3						3
4	0 Volts	A9-19			0 Volts	4
5						5
6						6
7		A7-4				7
8		A7-5				8
9						9
10						10
11		B2-7				11
12		B3-25				12
13				-x-	$\overline{\text{Reset}}$	13
14	+ 8 Volts	A9-31		x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A13-24				22
23						23
24						24
25						25
26		A7-12				26
27		A13-12				27
28	- 8 Volts			-x-	- 8 Volts	28
29						29
30	- 24 Volts			-x-	- 24 Volts	30
31						31
32		A11-24				32
33		A11-12				33
34		A7-11				34
35						35

pos.	
A8	1201

CENTRALEN

BENDIX

Unit: RC 2000

Designed B.N.

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Last Revision

Wiring Schedule

Drawing No

Drawn by G.T. 19.6.67

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1 Sheets

Sheet 1

A8

1201

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1		B6-23			RL 0	1
2		B7-23			RL 1	2
3		B8-23			RL 2	3
4		B9-23			RL 3	4
5						5
6						6
7		B0-30			Parity	7
8						8
9						9
10						10
11						11
12						12
13						13
14						14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	A8-4		-x-	0 Volts	19
20						20
21				-x-		21
22						22
23						23
24						24
25						25
26						26
27						27
28	- 8 Volts	A10-35		x-	- 8 Volts	28
29						29
30	- 24 Volts			x-	- 24 Volts	30
31	+.8 Volts	A8-14			+ 8 Volts	31
32		B10-23			RL 4	32
33		B11-23			RL 5	33
34		B12-23			RL 6	34
35		B13-23			RL 7	35

pos.	
A9	1228

Unit: RC 2000

CENTRALEN

Designed B.N.

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Drawn by E.T. 19.6.67

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1 Sheets

Sheet 1

A9

1228

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1		A1-32				1
2		D 1			Y 0 Read	2
3		B 2			Y 1 Read	3
4		D 3			Y 2 Read	4
5		B 4			Y 3 Read	5
6		D 5			Y 4 Read	6
7		B 6			Y 5 Read	7
8		D 7			Y 6 Read	8
9		B 8			Y 7 Read	9
10						10
11	- 1,6 Volts			-x	- 1,6 Volts	11
12		A4-33				12
13		A3-33				13
14		A2-33				14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x	0 Volts	21
22		A2-32				22
23		A3-32				23
24		A4-32				24
25		D 13			Y 12 Read	25
26		B 14			Y 13 Read	26
27		D 15			Y 14 Read	27
28		B 16			Y 15 Read	28
29		D 9			Y 8 Read	29
30		B 10			Y 9 Read	30
31		D 11			Y 10 Read	31
32		B 12			Y 11 Read	32
33		B4-7		-x	Read Current Time	33
34		A1-33				34
35	- 8 Volts	A9-28		-x	- 8 Volts	35

pos.	
A10	1203

BENE CENTRALEN

Unit: RC 2000

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Checked F.E. 19.6.67

1 Sheets

Sheet 1

A10

1203

CENTRALEN — REGNE

Unit: RC 2000

Designed B.N.

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Checked 3.12.65.

Last Revision

Wiring Schedule

Drawing No

Drawn by E.T. 19.6.67

Checked F.F. 1.9.67

1 Sheets | Sheet 1

All | 1203

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1		A5-32				1
2		C 1			x 0 Read	2
3		A 2			x 1 Read	3
4		C 3			x 2 Read	4
5		A 4			x 3 Read	5
6		C 5			x 4 Read	6
7		A 6			x 5 Read	7
8		C 7			x 6 Read	8
9		A 8			x 7 Read	9
10						10
11	- 1,6 Volts			-x-	- 1,6 Volts	11
12		A8-33				12
13		A7-33				13
14		A6-33				14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A6-32				22
23		A7-32				23
24		A8-32				24
25		C 13			x 12 Read	25
26		A 14			x 13 Read	26
27		C 15			x 14 Read	27
28		A 16			x 15,Read	28
29		C 9			x 8 Read	29
30		A 10			x 9 Read	30
31		C 11			x 10 Read	31
32		A 12			x 11 Read	32
33				x-	Read Current Time	33
34		A5-33				34
35	- 8 Volts			-x-	- 8 Volts	35

pos.	
All	1203

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1		A1-22				1
2		B 1			Y 0 Write	2
3		D 2			Y 1 Write	3
4		B 3			Y 2 Write	4
5		D 4			Y 3 Write	5
6		B 5			Y 4 Write	6
7		D 6			Y 5 Write	7
8		B 7			Y 6 Write	8
9		D 8			Y 7 Write	9
10						10
11	- 1,6 Volts			-x-	- 1,6 Volts	11
12		A4-27				12
13		A3-27				13
14		A2-27				14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22		A2-22				22
23		A3-22				23
24		A4-22				24
25		B 13			Y 12 Write	25
26		D 14			Y 13 Write	26
27		B 15			Y 14 Write	27
28		D 16			Y 15 Write	28
29		B 9			Y 8 Write	29
30		D 10			Y 9 Write	30
31		B 11			Y 10 Write	31
32		D 12			Y 11 Write	32
33		B5-13		-x	Write Current Time	33
34		A1-27				34
35	- 8 Volts			-x-	- 8 Volts	35

pos.	A12	1203

REGNE CENTRALEN

Unit: RC 2000

Designed B.N.

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Last Revision

Wiring Schedule

Drawing No

Drawn by G.T. 19.6.67.

Checked F.E. 19.6.67

1 Sheets

Sheet 1

A12

1203

CENTRALEN

RC 2000

Unit:

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by

Checked

Sheets

Sheet

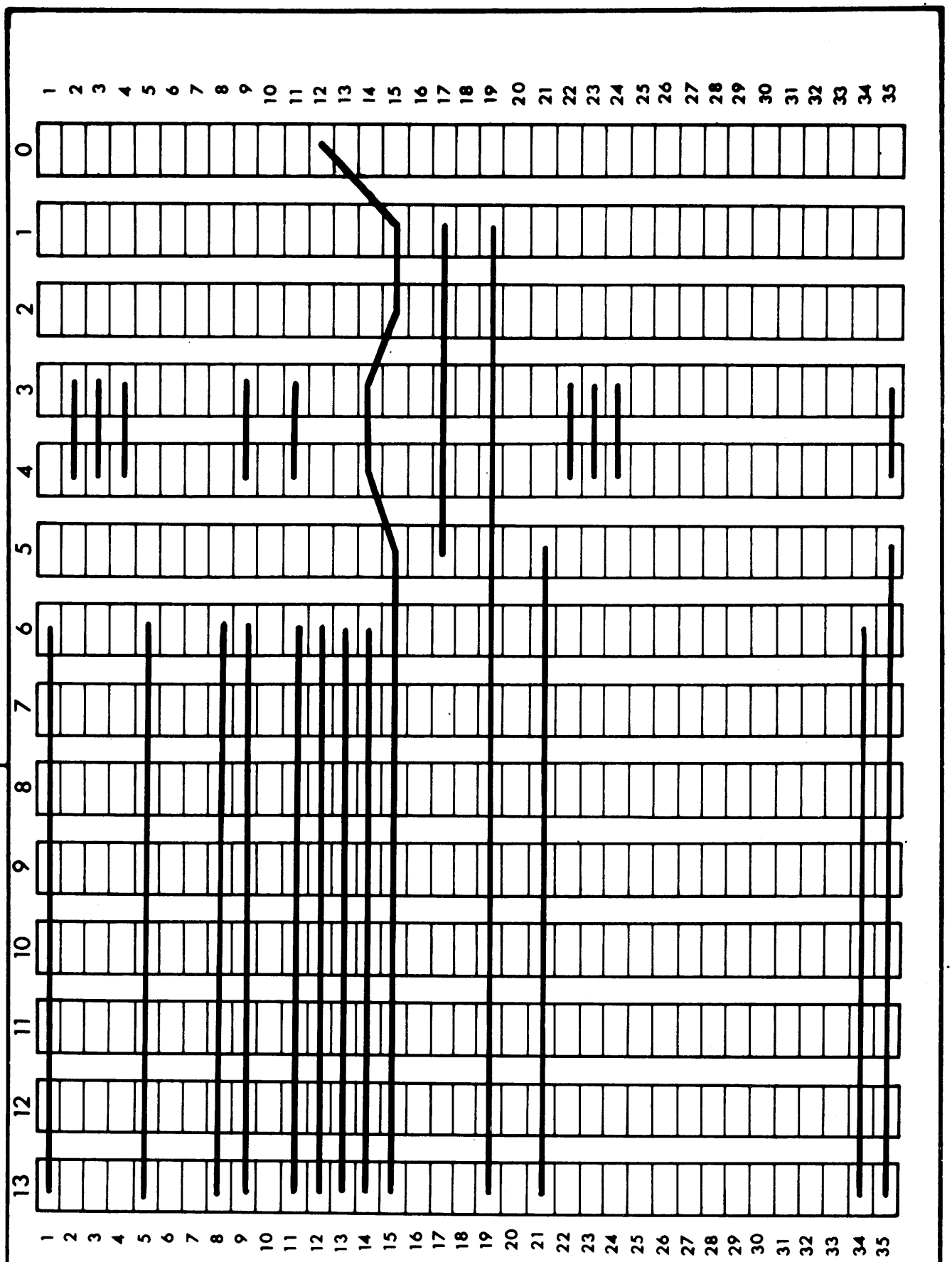
A13

1203

Page 80

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1		A5-22				1
2		A1			x 0 Write	2
3		C 2			x 1 Write	3
4		A 3			x 2 Write	4
5		C 4			x 3 Write	5
6		A 5			x 4 Write	6
7		C 6			x 5 Write	7
8		A 7			x 6 Write	8
9		C 8			x 7 Write	9
10						10
11	- 1,6 Volts	B13-12		x-	- 1,6 Volts	11
12		A8-27				12
13		A7-27				13
14		A6-27				14
15	0 Volts			x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			x-	0 Volts	19
20						20
21	0 Volts			x-	0 Volts	21
22		A6-22				22
23		A7-22				23
24		A8-22				24
25		A 13			x 12 Write	25
26		C 14			x 13 Write	26
27		A 15			x 14 Write	27
28		C 16			x 15 Write	28
29		A 9			x 8 Write	29
30		C 10			x 9 Write	30
31		A 11			x 10 Write	31
32		C 12			x 11 Write	32
33				x-	Write Current Time	33
34		A5-27				34
35	- 8 Volts	B13-35		x-	- 8 Volts	35

pos.	
A13	1203



Unit: RC 2000	Designed B.N.	Crosswiring at Frame B	Drawing No
REGNE CENTRALEN	Approved		Drawn by L.N.L. 5.9.67
	Checked 3.12.65		Checked F.E. 5.9.67
	Last Revision		15 Sheets / Sheet 1

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1		J1-M			RL 0	1
2		J1-P			RL 1	2
3		J1-S			RL 2	3
4		J1-U			RL 3	4
5		J1-W			RL 4	5
6		J1-Y			RL 5	6
7		J1-AA			RL 6	7
8		J1-CC			RL 7	8
9	- 8 Volts	B1-1	P3-HH		- 8 Volts	9
10	+ 8 Volts	B1-2			+ 8 Volts	10
11	- 24 Volts	B1-17			- 24 Volts	11
12	0 Volts		J1-N		0 Volts	12
13		B13-23	J1-J		$\overline{\text{RL 7}}$	13
14		B12-23	J1-H		$\overline{\text{RL 6}}$	14
15		B11-23	J1-F		$\overline{\text{RL 5}}$	15
16		B10-23	J1-E		$\overline{\text{RL 4}}$	16
17		B9-23	J1-D		$\overline{\text{RL 3}}$	17
18		B8-23	J1-C		$\overline{\text{RL 2}}$	18
19		B7-23	J1-B		$\overline{\text{RL 1}}$	19
20		B6-23	J1-A		$\overline{\text{RL 0}}$	20
21	0 Volts	P7-C7	J1-JJ		0 Volts Olivetti	21
22	0 Volts	P7-C1	J1-HH		0 Volts 5-Channel	22
23		P1-L			Ready	23
24	0 Volts	P7-D4	J1-FF		0 Volts 7-Channel	24
25		J1-NN				25
26	0 Volts	J1-EE	P7-A7		0 Volts 8-Channel	26
27		J1-RR				27
28		B4-28	A0-22		$\overline{\text{Reset}}$	28
29		J1-KK			1.Character	29
30		A9-7				30
31	- 1,6 Volts	B2-13	A0-35		- 1,6 Volts	31
32		B5-3			$\overline{\text{sRA}}$	32
33		J1-MM			$\overline{\text{Busy}}$	33
34		B5-2			$\overline{\text{RA}}$	34
35		J1-K			$\overline{\text{Start}}$	35

pos.	
B0	1224

CENTRALEN

REGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision

Wiring Schedule

Drawing No

Drawn by G.T. 20.6.67.

Checked F.E. 4.9.67

1 Sheets

Sheet 1

B0

CENTRALEN

BEGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by [illegible] 20.6.67.

Checked [illegible] 7.9.67

1 Sheets

Sheet 1

B1

1205A-1

Page 83

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1	- 8 Volts	B0-9	B2-4		- 8 Volts	1
2	+ 8 Volts	B0-10	B2-32		+ 8 Volts	2
3		B1-23			P.O.	3
4		B3-5			WB	4
5		P4-L	A0-24		Block Motor	5
6		P3-BB			Skip N.O.	6
7		A1-3				7
8		A2-3				8
9		A3-3				9
10		A4-3				10
11		A5-3				11
12		A6-3				12
13		P4-P				13
14		B6-8			Inhibit Time	14
15	0 Volts	P2-K	P3-J	-x	0 Volts	15
16						16
17	- 24 Volts	B0-11		-x	- 24 Volts	17
18						18
19	0 Volts	B1-21		-x	0 Volts	19
20						20
21	0 Volts	B1-19	P3-JJ		0 Volts	21
22		P7-A1			Light Sence	22
23		B1-3	B2-21		P.O.	23
24		P4-A				24
25		P4-D				25
26		P3-T			Light	26
27						27
28						28
29	- 24 Volts *	P7-D6			- 24 Volts from selector switch	29
30		B4-1			RC	30
31		B6-34			Strobe-Reset	31
32		P2-P			P.O. Sence	32
33		P3-W	P7-B4		UPC	33
34		B5-11	P7-B2		Solenoid	34
35		P3-RR			P.O. Adj.	35

pos.	B1	1205A-1

CENTRALEN — REGNE

Unit: RC 2000

Designed B.H.

Approved

Checked 3.12.65.

Last Revision 130270HA

Wiring Schedule

Drawing No

Drawn by B.H. 23.6.65.

Checked F.E. 1.9.65

1 Sheets | Sheet 1

B2 | 1213

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1		B2-10	B4-15		Reset A and B	1
2		B4-8			RB	2
3						3
4	- 8 Volts	B1-1	B3-23		- 8 Volts	4
5		A0-29	P6-BB		Zero Decoding (ZFB)	5
6		B4-10			Clearing of CS	6
7		A8-11			Count A	7
8		B4-13			Read	8
9		B3-8			WA	9
10		B2-1	A3-13		Reset to A and B	10
11		B3-1			WB	11
12		B5-1			RA	12
13	- 1,6 Volts	B5-4	B0-31		- 1,6 Volts	13
14		B4-34			Reset	14
15	0 Volts	B2-19		x-	0 Volts	15
16						16
17	- 24 Volts	P3-KK		-x-	- 24 Volts	17
18						18
19	0 Volts	B2-15		-x-	0 Volts	19
20						20
21		B1-23	B4-27		P.O.	21
22		B6-11			Reset of Input Reg.	22
23		B3-21			WC	23
24	- 24 Volts	P3-N	A0-33		- 24 Volts Olivetti Tapes	24
25	- 24 Volts	P7-C5	A0-34		- 24 Volts 5-Channel Tapes	25
26	- 24 Volts	P7-C3	A0-32		- 24 Volts 7-Channel Tapes	26
27	- 24 Volts	P7-D8	A0-31		- 24 Volts 8-Channel Tapes	27
28		P2-N			Sel. of track 1,2,3,4,5 and R,S	28
29		P2-R			" " " 6,7	29
30		P2-F			" " " 8	30
31		P2-C			Olivetti and P	31
32	+ 8 Volts	B1-2	B3-9		+ 8 Volts	32
33	- 24 Volts	P3-C			- 24 Volts for Pot.(1,2,3,4,5,P,0)	33
34						34
35						35

pos.	
B2	1213

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1		B2-11	B5-7		WB	1
2	- 8 Volts	B4-23		-x	- 8 Volts	2
3	- 24 Volts	B3-11		-x	- 24 Volts	3
4	+ 8 Volts	B4-9		-x	+ 8 Volts	4
5		B3-26	B1-4		Inhibit Pulse	5
6		B3-27			Skip	6
7		B3-12			WA	7
8		B2-9				8
9	+ 8 Volts	B2-32		-x	+ 8 Volts	9
10		J6-U			Σ Char. Ext. Input	10
11	- 24 Volts	B3-3		-x	- 24 Volts	11
12		B3-7				12
13		B3-28				13
14	0 Volts	P6-V		-x	0 Volts	14
15		B5-22	A0-12		P.O.	15
16						16
17	- 24 Volts	P7-D2		-x-	- 24 Volts	17
18						18
19	0 Volts	B3-35		-x-	0 Volts	19
20						20
21		B2-23				21
22	- 24 Volts	B4-11	P4-C	-x	- 24 Volts	22
23	- 8 Volts	B2-4		-x	- 8 Volts	23
24	+ 8 Volts	A2-14		-x	+ 8 Volts	24
25		A8-12				25
26		B3-5				26
27		B3-6			Skip	27
28		B3-13			Σ Characters	28
29		A17 → A32			C.S.	29
30		B17 → B32			C.S.	30
31		C17 → C32			C.S.	31
32		D17 → D32			C.S.	32
33		P3-MM			Skip Contact	33
34		B6-5			Σ Characters	34
35	0 Volts	B3-19		-x	0 Volts	35

pos. B3 | 13M -1

Unit: RC 2000

REGNECENTRALEN

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by G.T. 20.6.67.

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1 Sheets | Sheet 1

B3 | 13M-1

CENTRALEN — REGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 17.1.68

Wiring Schedule

Drawing No

Drawn by G.T. 20.6.67

Checked F.E. 19.67

1 Sheets

Sheet 1

B4

1200-3

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1		B1-30			RC	1
2	- 8 Volts	A4-28		x-	- 8 Volts	2
3	- 24 Volts	P4-C		x-	- 24 Volts	3
4	+ 8 Volts	B4-24		x-	+ 8 Volts	4
5		B4-6				5
6		B4-5				6
7		A10-33	B4-8		RB	7
8		B2-2	B4-7		RB	8
9	+ 8 Volts	B3-4		x-	+ 8 Volts	9
10		B2-6			Clearing of C.S.	10
11	- 24 Volts	B3-22		x-	- 24 Volts	11
12		B5-5				12
13		B2-8			Read	13
14	0 Volts	B4-19		x-	0 Volts	14
15		B2-1	B5-9		Reset to A and B	15
16						16
17	- 24 Volts	P6-RR		-x-	- 24 Volts	17
18						18
19	0 Volts	B4-14		-x-	0 Volts	19
20						20
21		P6-EE			Ext. Reset	21
22	- 24 Volts	A4-30		x-	- 24 Volts	22
23	- 8 Volts	B3-2		x-	- 8 Volts	23
24	+ 8 Volts	B4-4		x-	+ 8 Volts	24
25						25
26		P3-Y			RESET	26
27		B2-21	B5-14		P.C.	27
28		B0-28			Reset	28
29						29
30						30
31						31
32						32
33						33
34		B2-14	B5-6			34
35	0 Volts			x-	0 Volts	35

pos.	
B4	1200-3

REGNE CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 16.4.68.

Wiring Schedule

Drawing No

Drawn by G.T. 20.6.67.

Checked F.F. 4.7.67

1 Sheets

Sheet 1

B5

1212-1

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1		B2-12			RA	1
2		B0-34			$\overline{RA}$	2
3		B0-32			$\overline{sRA}$	3
4	- 1,6 Volts	B2-13	B6-12		- 1,6 Volts	4
5		B4-12			RB	5
6		B4-34			Reset	6
7		B3-1			$\overline{WB}$	7
8		B5-12			WD	8
9		B4-15			$\overline{\text{Reset A and B}}$	9
10		P3-CC			$\overline{\text{Read}}$	10
11		B1-34				11
12		B5-8			WD	12
13		A12-33			$\overline{\text{WD write Current Time}}$	13
14		B4-27				14
15	0 Volts	B5-19	P7-B6	-x	0 Volts	15
16						16
17	- 24 Volts	A6-30		x-	- 24 Volts	17
18						18
19	0 Volts	B5-15		-x-	0 Volts	19
20						20
21	0 Volts			-x	0 Volts	21
22		B3-15	J1-PP		P.O.	22
23						23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32						32
33	+ 8 Volts	A4-14	B6-14		+ 8 Volts	33
34	- 24 Volts	A5-30			- 24 Volts	34
35	- 8 Volts	B6-13		-x	- 8 Volts	35

pos.	
B5	1212-1

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No.

Drawn by L.T. 20.6.67.

Checked F.E. 1.2.67

1 Sheets

Sheet 1

B6 1202

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1	0 Volts			-x	0 Volts	1
2		P3-B				2
3		P2-A				3
4		P3-A				4
5		B3-34		-x	$\overline{\text{Character}}$	5
6		Ci 1b			Inhibit Wire 1b	6
7		Ci 1a			Inhibit Wire 1a	7
8		B1-14		-x	Inhibit Time	8
9	0 Volts			-x	0 Volts	9
10		P6-A			$\overline{\text{Ext. Input}}$	10
11		B2-22		-x	$\overline{\text{Reset}}$	11
12	- 1,6 Volts	B5-4		-x	- 1,6 Volts	12
13	- 8 Volts	B5-35		-x	- 8 Volts	13
14	+ 8 Volts	B5-33		-x	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	P6-B		-x-	0 Volts	19
20						20
21	0 Volts	P4-S		-x-	0 Volts	21
22						22
23		B0-20	A9-1		$\overline{\text{Out}}$	23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 1b			Read Wire 1b	32
33		R 1a			Read Wire 1a	33
34		B1-31		-x	$\overline{\text{Strobe Reset}}$	34
35	- 8 Volts			-x-	- 8 Volts	35

pos.	
B6	1202

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1	0 Volts			-x-	0 Volts	1
2		P3-F				2
3		P2-B				3
4		P3-E				4
5				-x-	Σ Character	5
6		Ci 2b			Inhibit Wire 2b	6
7		Ci 2a			Inhibit Wire 2a	7
8				-x-		8
9	0 Volts			-x-	0 Volts	9
10		P6-C				10
11				-x-		11
12	- 1,6 Volts			-x-	- 1,6 Volts from P.S.	12
13	- 8 Volts			-x-	- 8 Volts	13
14	+ 8 Volts	P4-N		-x-	+ 8 Volts from P.S.	14
15	0 Volts	P1-DD		-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	B7-21		-x-	0 Volts	19
20						20
21	0 Volts	B7-19		-x-	0 Volts	21
22						22
23		B0-19	A9-2			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R2 b			Read Wire 2b	32
33		R2 a			Read Wire 2a	33
34				-x-		34
35	- 8 Volts			-x-	- 8 Volts	35

pos.	
B7 .	1202

Unit: RC 2000

IBM CENTRALEN

Designed B.N.

Approved

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Last Revision

Wiring Schedule

Drawing No

Drawn by G.T. 20.6.67.

Checked F.E. 4.9.67

1 Sheets

Sheet 1

B7

1202

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1	0 Volts			-x-	0 Volts	1
2		P3-K				2
3		P2-D				3
4		P3-L				4
5				-x-	≤Character	5
6		Ci 3b			Inhibit Wire 3b	6
7		Ci 3a			Inhibit Wire 3a	7
8				-x-		8
9	0 Volts			-x-	0 Volts	9
10		P6-E				10
11				-x-		11
12	- 1,6 Volts			-x-	- 1,6 Volts	12
13	- 8 Volts			-x-	- 8 Volts	13
14	+ 8 Volts	P7-A3		-x-	+ 8 Volts for Light Adj.	14
15	0 Volts	B8-19		-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	B8-15		-x-	0 Volts	19
20						20
21						21
22						22
23		B0-18	A9-3			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 3b			Read Wire 3b	32
33		R 3a			Read Wire 3a	33
34				-x-		34
35	- 8 Volts			-x-	- 8 Volts	35

pos. B8	1202

Unit: RC 2000	Designed B.N.	Wiring Schedule	Drawing No
REGNECENTRALEN	Approved		Drawn by G.T. 21.16.67.
	Checked 3.12.65.		Checked F.E. 1.9.67
	Last Revision		1 Sheets · Sheet 1
			B8 · 1202

CENTRALEN — RECOMI

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by G.T. 21.6.67.

Checked F.E. 1.9.67

Sheet 1

Sheets 1

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1202

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1	0 Volts			-x-	0 Volts	1
2		P3-P				2
3		P2-E				3
4		P3-R				4
5				-x-	≤Character	5
6		Ci 4b			Inhibit Wire 4b	6
7		Ci 4a			Inhibit Wire 4a	7
8				-x-		8
9	0 Volts	B11-19		-x-	0 Volts	9
10		P6-H				10
11				-x-		11
12	- 1,6 Volts			-x-	- 1,6 Volts	12
13	- 8 Volts			-x-	- 8 Volts	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts	P6-NN		-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	A10-19		-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22						22
23		B0-17	A9-4			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 4b			Read Wire 4b	32
33		R 4a			Read Wire 4a	33
34				-x-		34
35	- 8 Volts			-x-	- 8 Volts	35

pos.	
B9	1202

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by G.T. 21.6.67.

Checked F.E. 19.9.67

1 Sheets

Sheet 1

B10

1202

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PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1	0 Volts	B10-19		-x-	0 Volts	1
2		P3-U				2
3		P2-H				3
4		P3-V				4
5				-x-	≤Character	5
6		Ci 5b			Inhibit Wire 5b	6
7		Ci 5a			Inhibit Wire 5a	7
8				-x-		8
9	0 Volts			-x-	0 Volts	9
10		P6-K				10
11				-x-		11
12	- 1,6 Volts			-x-	- 1,6 Volts	12
13	- 8 Volts			-x-	- 8 Volts	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	B10-1		-x-	0 Volts	19
20						20
21	0 Volts			-x-	0 Volts	21
22						22
23		B0-16	A9-32			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 5b			Read Wire 5b	32
33		R 5a			Read Wire 5a	33
34				-x-		34
35	- 8 Volts			-x-	- 8 Volts	35

pos.	B10	1202

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by G.T. 21.6.67.

Checked F.E. 19.4.67

1 Sheets

Sheet 1

B11

1202

Page 93

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1	0 Volts			-x-	0 Volts	1
2		P3-AA				2
3		P2-J				3
4		P3-X				4
5				-x-	Character	5
6		Ci 6b			Inhibit Wire 6b	6
7		Ci 6a			Inhibit Wire 6a	7
8				-x-		8
9	0 Volts			-x-	0 Volts	9
10		P6-M				10
11				-x-		11
12	- 1,6 Volts			-x-	- 1,6 Volts	12
13	- 8 Volts			-x-	- 8 Volts	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts			-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	B9-9		-x-	0 Volts	19
20						20
21						21
22						22
23		B0-15	A9-33			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 6b			Read Wire 6b	32
33		R 6a			Read Wire 6a	33
34				-x-		34
35	- 8 Volts			-x-	- 8 Volts	35

pos.		
	B11	1202

CENTRALEN

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by G.T.21.6.67.

Checked F.B. 1.9.67

1 Sheets

Sheet 1

B12

1202

Page 94

PIN	Special Wire	Wired To	Wired To	-x-	Name of Signal	PIN
1	0 Volts			-x-	0 Volts	1
2		P3-FF				2
3		P2-L				3
4		P3-Z				4
5				-x-	$\leq$Character	5
6		Ci 7b			Inhibit Wire 7b	6
7		Ci 7a			Inhibit Wire 7a	7
8				-x-		8
9	0 Volts			-x-	0 Volts	9
10		P6-P				10
11				-x-		11
12	- 1,6 Volts			-x-	- 1,6 Volts	12
13	- 8 Volts			-x-	- 8 Volts	13
14	+ 8 Volts			-x-	+ 8 Volts	14
15	0 Volts	P1-TT		-x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts			-x-	0 Volts	19
20						20
21	0 Volts	P4-R		-x-	0 Volts	21
22						22
23		B0-14	A9-34			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 7b			Read Wire 7b	32
33		R 7a			Read Wire 7a	33
34				-x-		34
35	- 8 Volts	P6-MM		-x-	- 8 Volts	35

pos.	
B12	1202

CENTRALEN — REGNE

Unit: RC 2000

Designed B.N.

Approved

Checked 3.12.65.

Last Revision 15.6.69

Wiring Schedule

Drawing No

Drawn by G.T. 21.6.67.

Checked F.E. 12.6.67

1 Sheets

Sheet 1

B13 — 1202

PIN	Special Wire	Wired To	Wired To	—x—	Name of Signal	PIN
1	0 Volts	B13-9		x-	0 Volts	1
2		P3-LL				2
3		P2-M				3
4		P3-DD				4
5				x-	$\overline{\Sigma}$ Character	5
6		Ci 8b			Inhibit Wire 8b	6
7		Ci 8a			Inhibit Wire 8a	7
8				x-		8
9	0 Volts	B13-1		x-	0 Volts	9
10		P6-S				10
11				x-		11
12	- 1,6 Volts	A13-11		x-	- 1,6 Volts	12
13	- 8 Volts			x-	- 8 Volts	13
14	+ 8 Volts	P6-PP		x-	+ 8 Volts	14
15	0 Volts			x-	0 Volts	15
16						16
17						17
18						18
19	0 Volts	P6-TT		x-	0 Volts	19
20						20
21	0 Volts			x-	0,Volts	21
22						22
23		B0-13	A9-35			23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31						31
32		R 8b			Read Wire 8b	32
33		R 8a			Read Wire 8a	33
34				x-		34
35	- 8 Volts	A13-35		x-	- 8 Volts	35

pos.	B13	1202

SPARE PARTS LIST
FOR

RC 2000

PAPER TAPE READER

MODEL TR 200/20 NO 2956

PUBLICATION NO. RCSL 44-RT 58

VOLUME 1

A/S REGNECENTRALEN APRIL 1969

Index Spare Parts Catalog

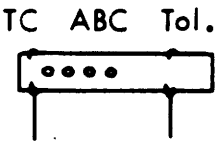
RC 2000 Paper Tape Reader

Colour Codes

Carbon Resistor std.

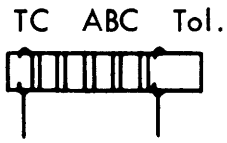
Coloured bands

Ceramic Capacitors std.



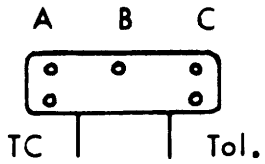
Coloured dots

or



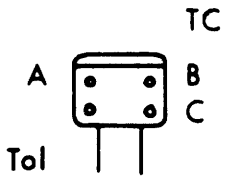
Coloured bands

Polyester Capacitors std.



Coloured dots

or



Coloured edge and
Coloured dots

PIN - UP Capacitors std.

Coloured zones

Colour Codes

The Colour-codes is marked on the resistors and the capacitors as shown on page 7.0. The idea of the colours is as shown below:

The ciffernumbers A and B:

0	1	2	3	4	5	6	7	8	9
black	brown	red	orange	yellow	green	blue	violet	grey	white

The scale factor C:

10^0	10^1	10^2	10^3	10^4	10^5	10^6	10^{-1}	10^{-2}	10^{-1}
black	brown	red	orange	yellow	green	blue	white	grey	gold
			ohm/pF				pF		ohm

The tolerance indicator TOL:

Resistors

20%	10 %	5%
no colour	silver	gold

Capacitors

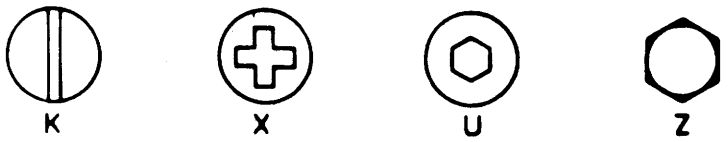
20 %	10%	5%	2%	1 %
black	white	green	red	brown

The indication of temperaturecoefficient TC:

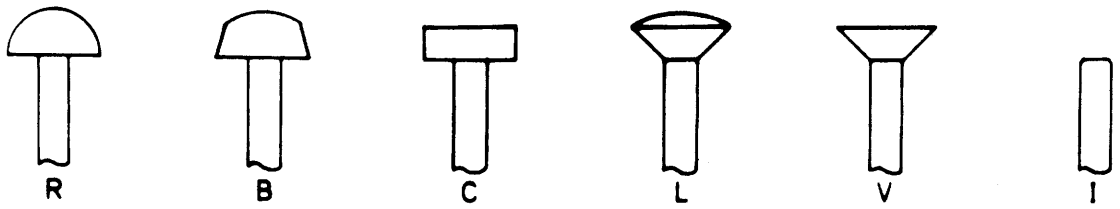
Capacitors

-0×10^{-6}	-150×10^{-6}	-750×10^{-6}
black	orange	violet

SCREWS std.

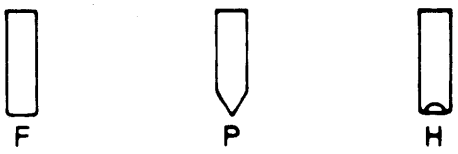


1st Letter

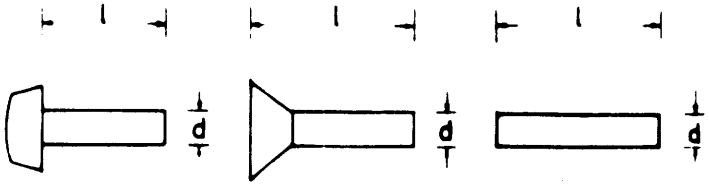


2nd Letter

3rd Letter

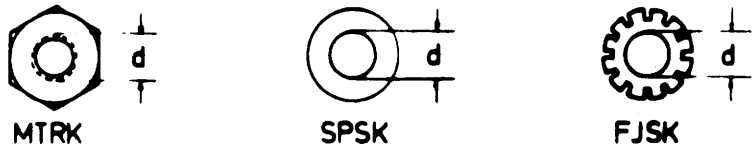


4th Letter



d x l mm

NUTS std. FLAT WASHERS std. LOCK WASHERS std.



d mm

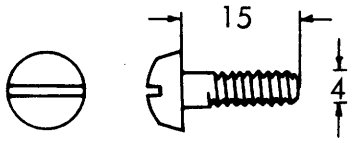
Standard SCREWS, NUTS and WASHERS

SCREWS, NUTS or WASHERS without REF. No. are RC standard, and can be ordered from the table on page 9.0 as follows:

SCREWS:

(1st letter) (2nd letter) (3rd letter) (4th letter) d × l mm

Example:

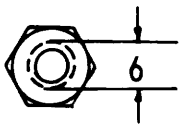


KBNF 4 × 15

NUTS and WASHERS:

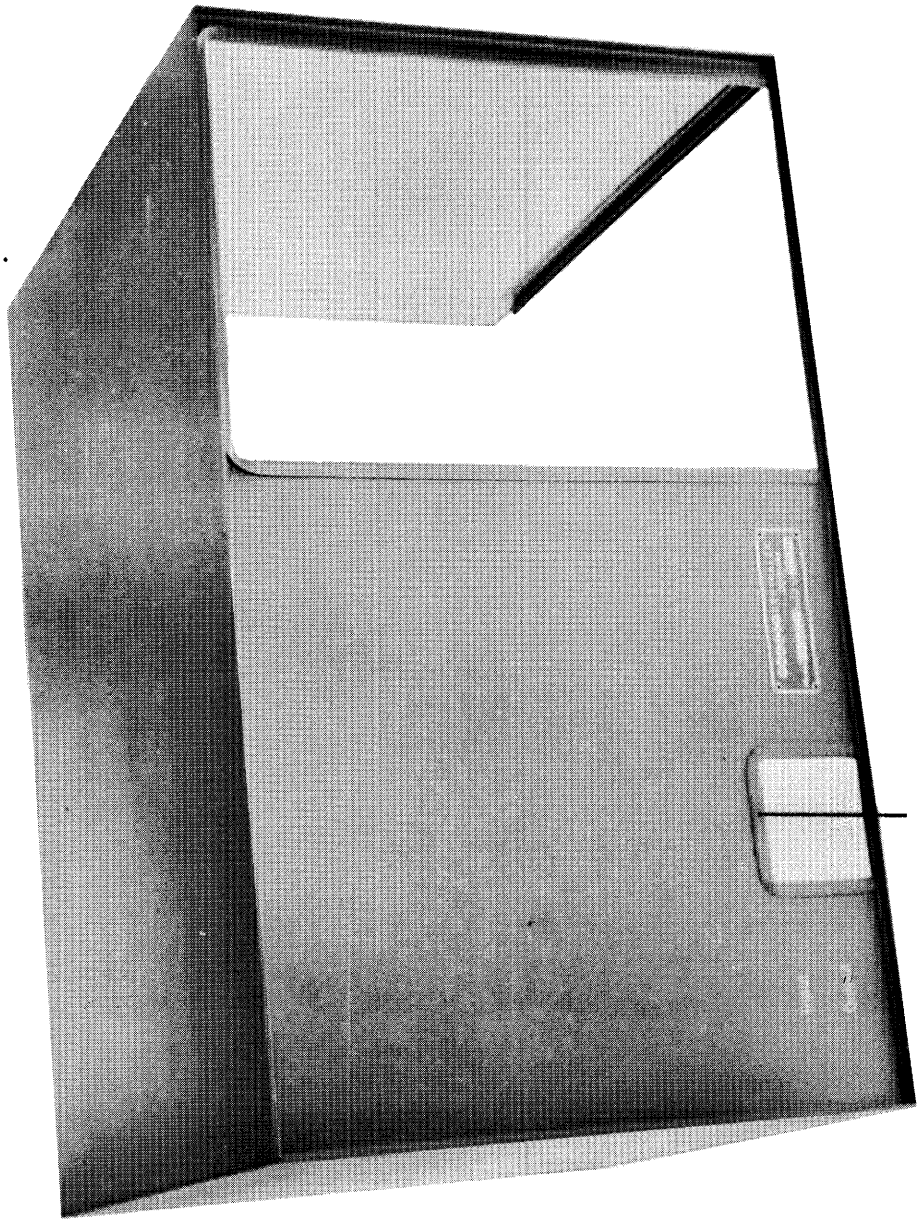
(The four letters) d mm

Example:



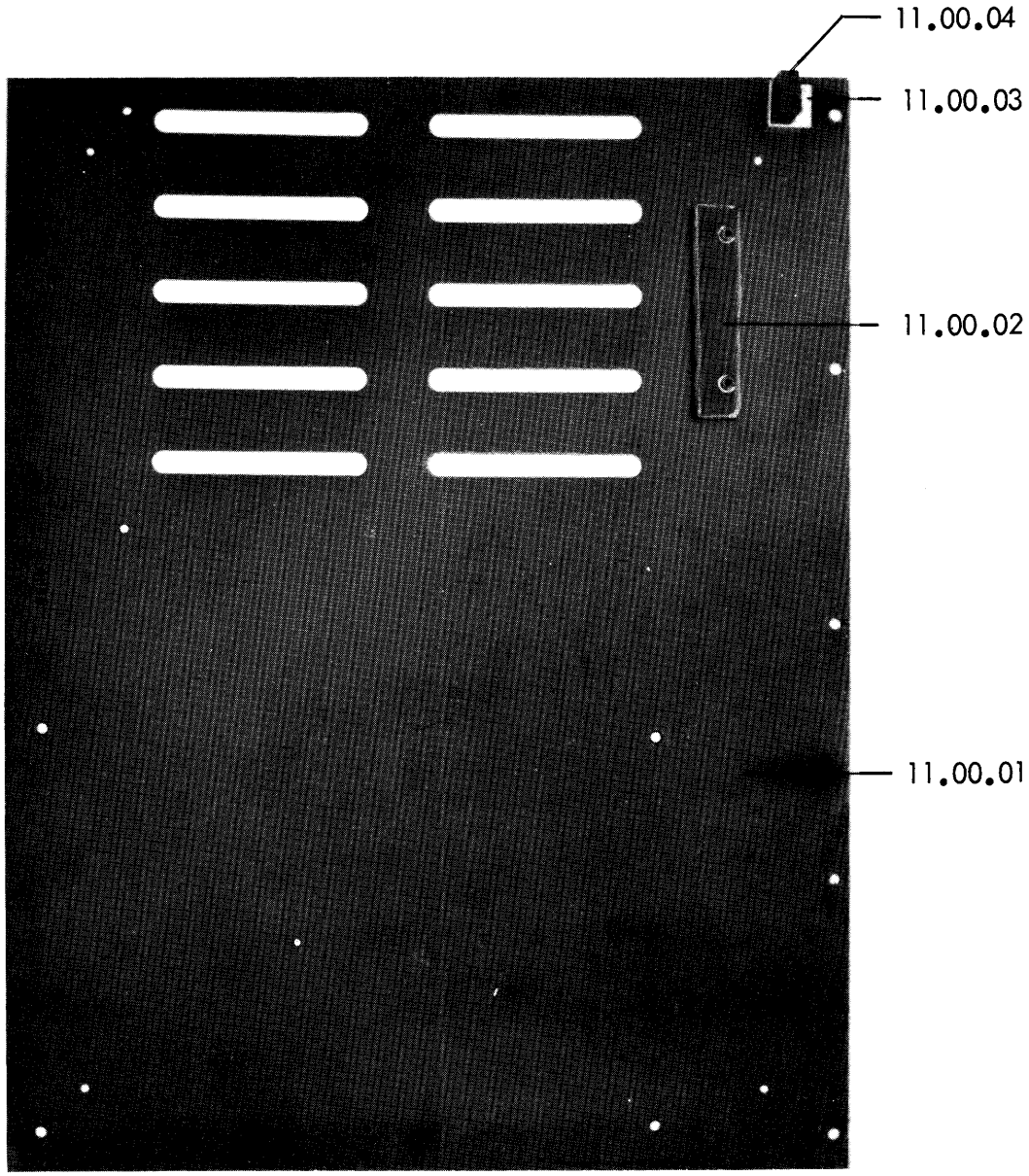
MTRK 6

10.00.00 Cabinet Complete



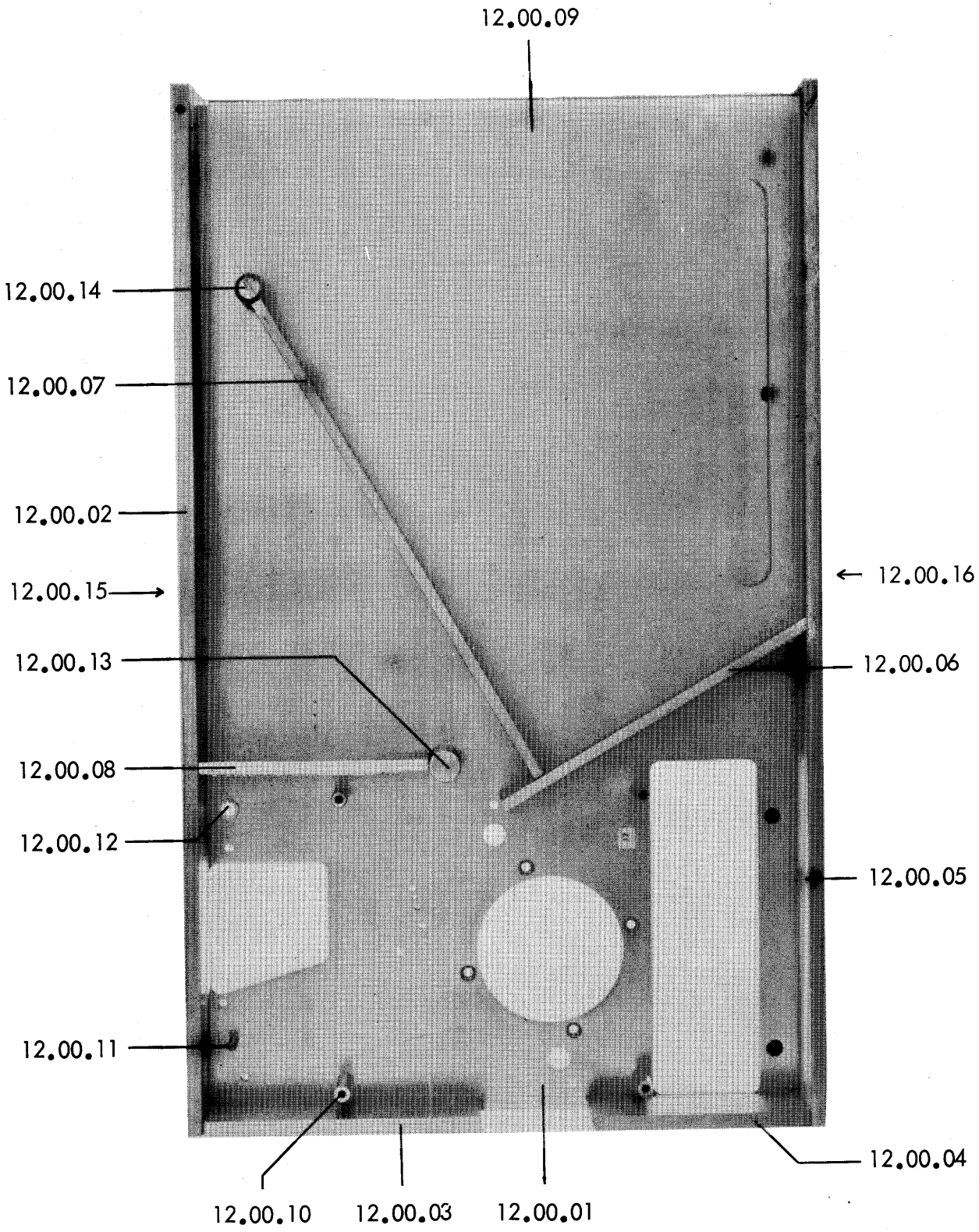
Ref.No.	Qty.	Description	RC Part No.	Note
10.00.00	1	Cabinet Complete	34800	≤ 2165
.00	1	Cabinet Complete	34801	
.01	1	PVC Strip 2 m	34802	

11.00.00 Base Plate, etc.



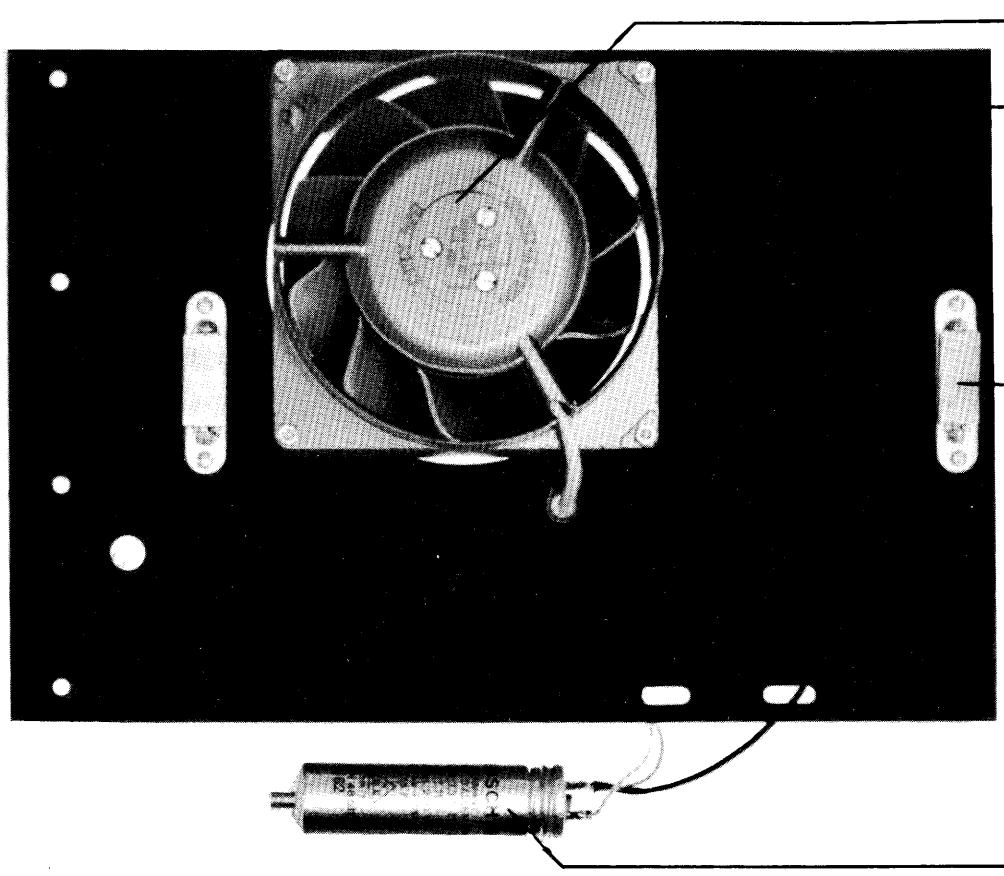
Ref.No.	Qty.	Description	RC Part No.	Note
11.00.00	1	Base Plate, etc.	-	
.01	1	Base Plate	34805	
.02	1	Retaining Plate, PVC	34806	
.03	1	Base Plate, Micro Switch	34807	
.04	1	Support, PVC, Micro Switch	34808	
.05	4	Foot, Nylon	34809	

12.00.00 Basic Frame, Front



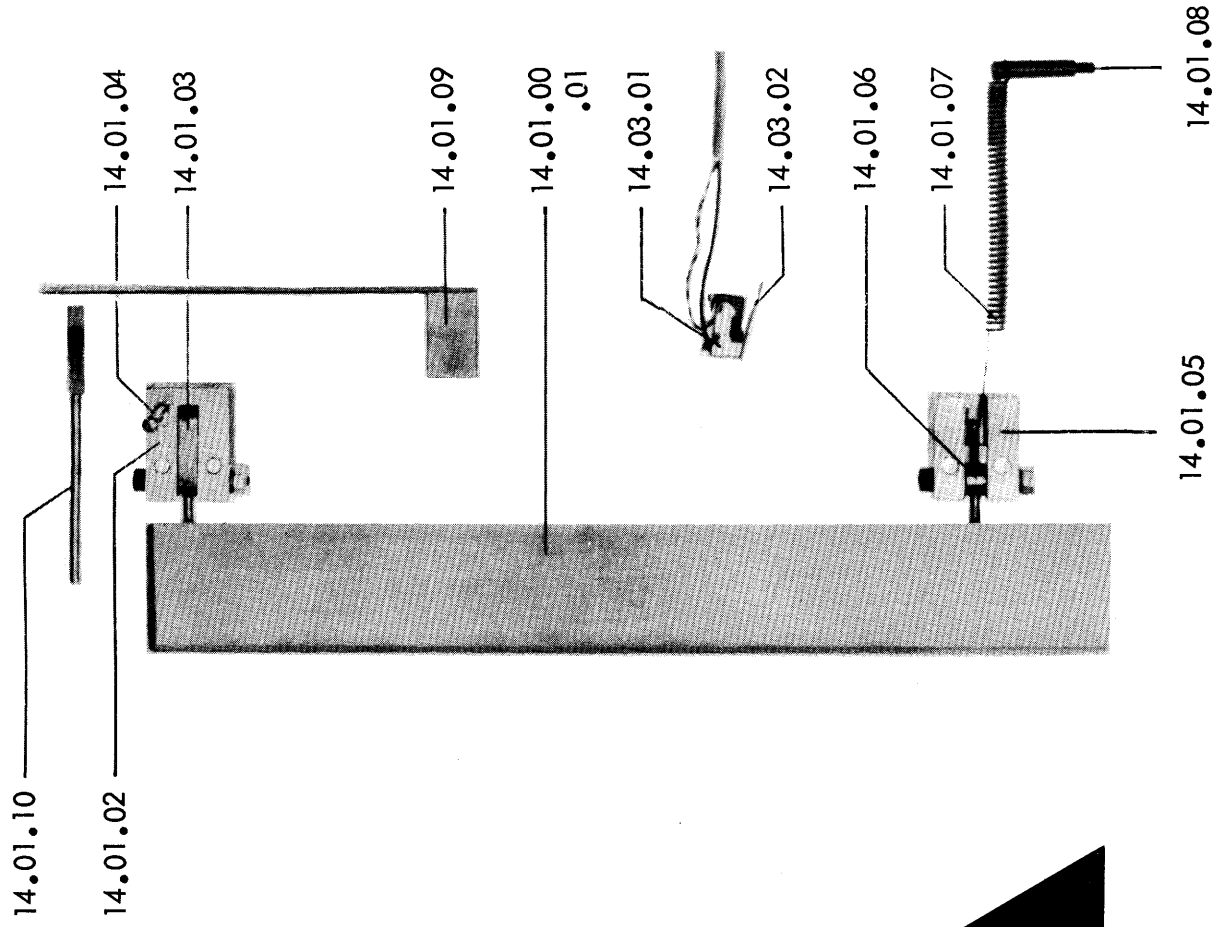
Ref.No.	Qty.	Description	RC Part No.	Note
12.00.00	1	Basic Frame, Front		
.01	1	Basic Frame	34812	
.02	1	Rim	34813	
.03	1	Rim	34814	
.04	1	Rim	34815	
.05	1	Rim	34816	
.06	1	Rim	34817	≤ 2145
.06	1	Rim	34818	
.07	1	Rim	34819	≤ 2145
.07	1	Rim	34900	
.08	1	Rim	34901	
.09	1	Window, Plexiglas	34608	≤ 2145
.09	1	Window, Plexiglas	34703	
.10	4	Spacer	34902	
.11	1	Attachment, Spring	34903	
.12	1	Nipple, Nylon	34904	
.13	1	Guide, Fixed	34905	
.14	1	Guide, Roller assy	34719	
.15	1	Guide, Cabinet	34906	
.16	1	Assembling Bar	34907	

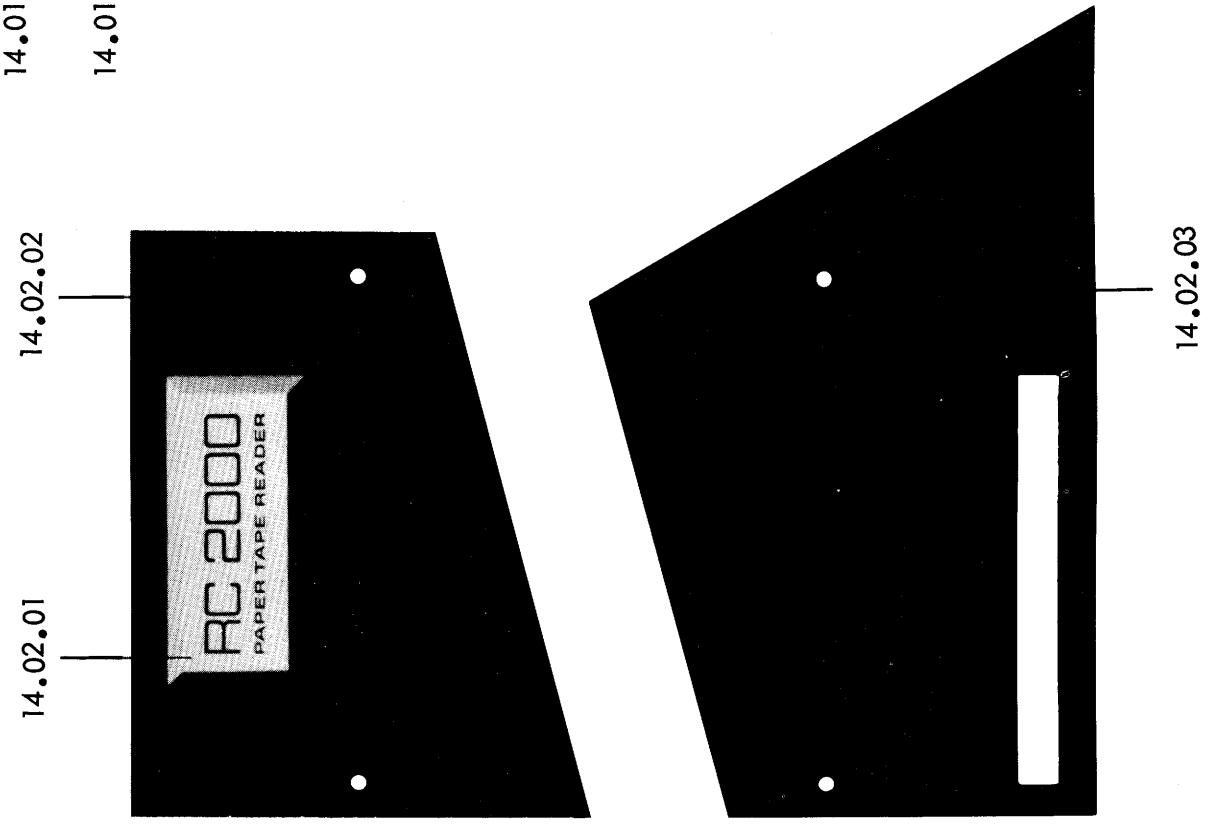
13.00.00 Fan and Filter assemblies



Ref.No.	Qty.	Description	RC Part No.	Note
13.00.00	1	Fan and Filter assy	-	
.01.00	1	Fan assy	-	
.01	1	Base Plate, Fan	34909	≤ 2205
.01	1	Base Plate, Fan	34910	
.02	1	Fan	13513	
.03	1	Capacitor, Fan, 2,5 uF, 220 AC	11109	
.04	2	Lock, Magnetic, Complete	34911	
.05	1	Nipple, Nylon	34912	
.02.00	1	Filter assy	34913	
.01	1	Filter	34710	

14.00.00 Door and Front Plates

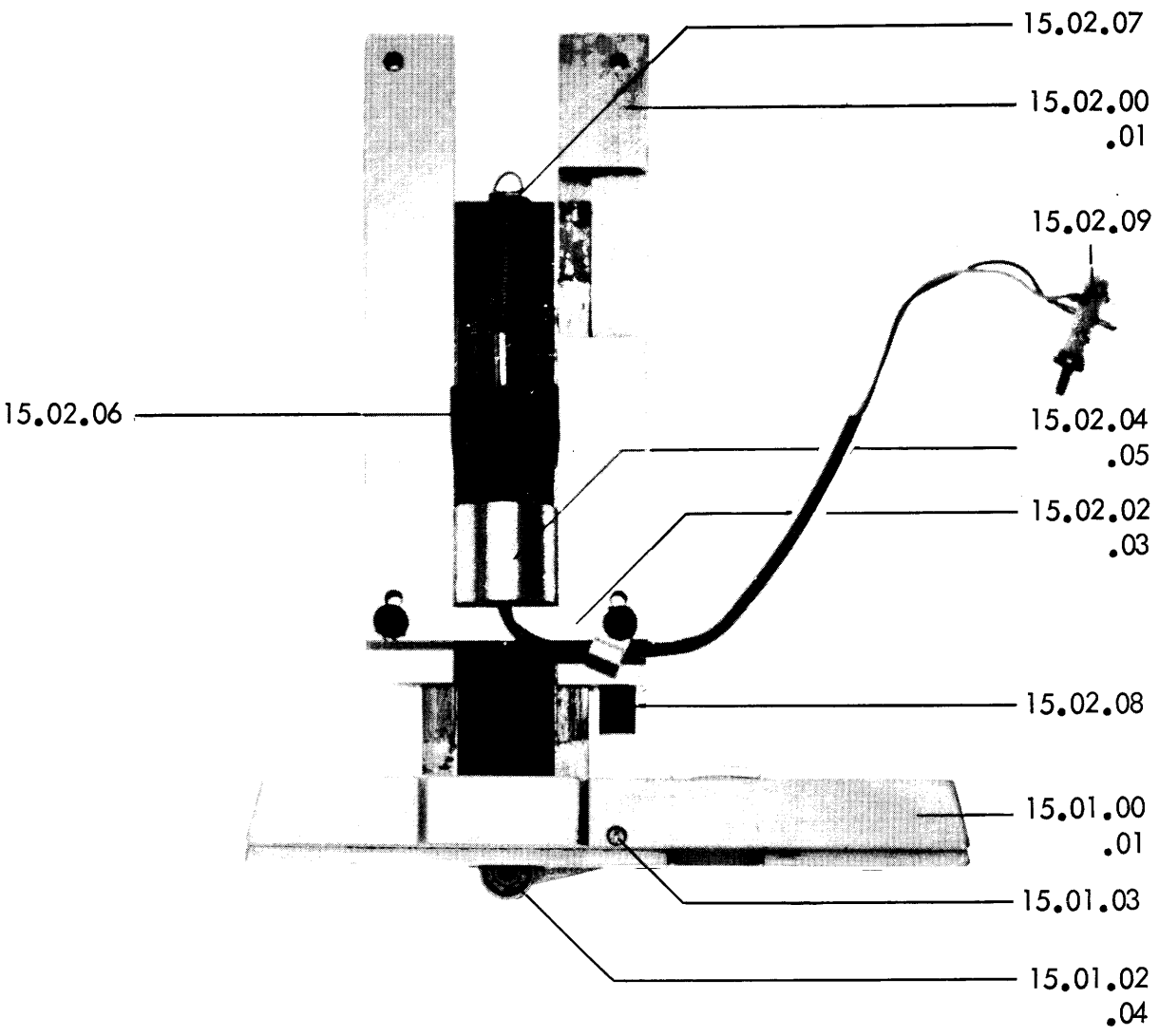


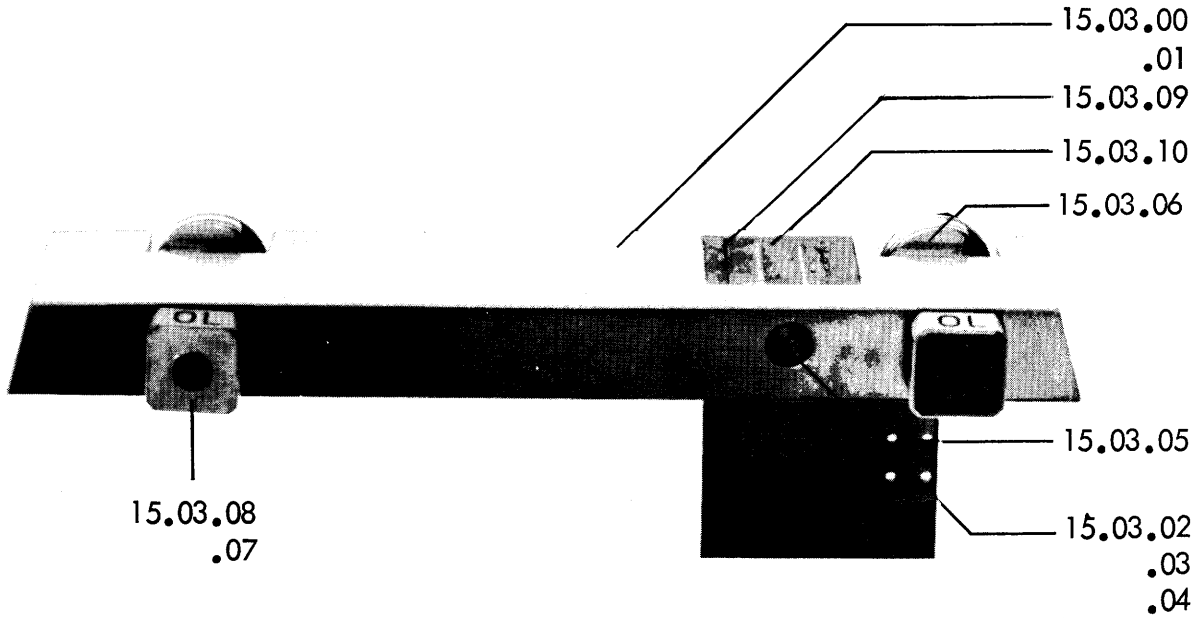


Ref.No.	Qty.	Description	RC Part No.	Note
14.00.00	1	Door and Front Plates	-	
.01.00	1	Door Complete	34916	
.01	1	Door	34610	x)
.02	1	Hinge, Fixed, Upper	34613	
.03	1	Hinge, Movable, Upper	34603	x)
.04	1	Pin, Hinge, Upper	34918	
.05	1	Hinge, Fixed, Lower	34618	
.06	1	Hinge, Movable, Lower	34604	x)
.07	1	Spring	34611	
.08	1	Attachment, Spring	34917	
.09	1	Flat Spring	34919	
.10	1	Door Release	34915	
.02.01	1	Name-Plate	35000	
.02	1	Cover Plate	35001	
.03	1	Cover Plate	35002	
.03.01	1	Micro Switch	12511	
.02	1	Actuator, Spring	12510	

x) If Hinge Movable is 5 mm$^{\phi}$, then order ref. No. 14.01.01, 14.01.03 and 14.01.06 together

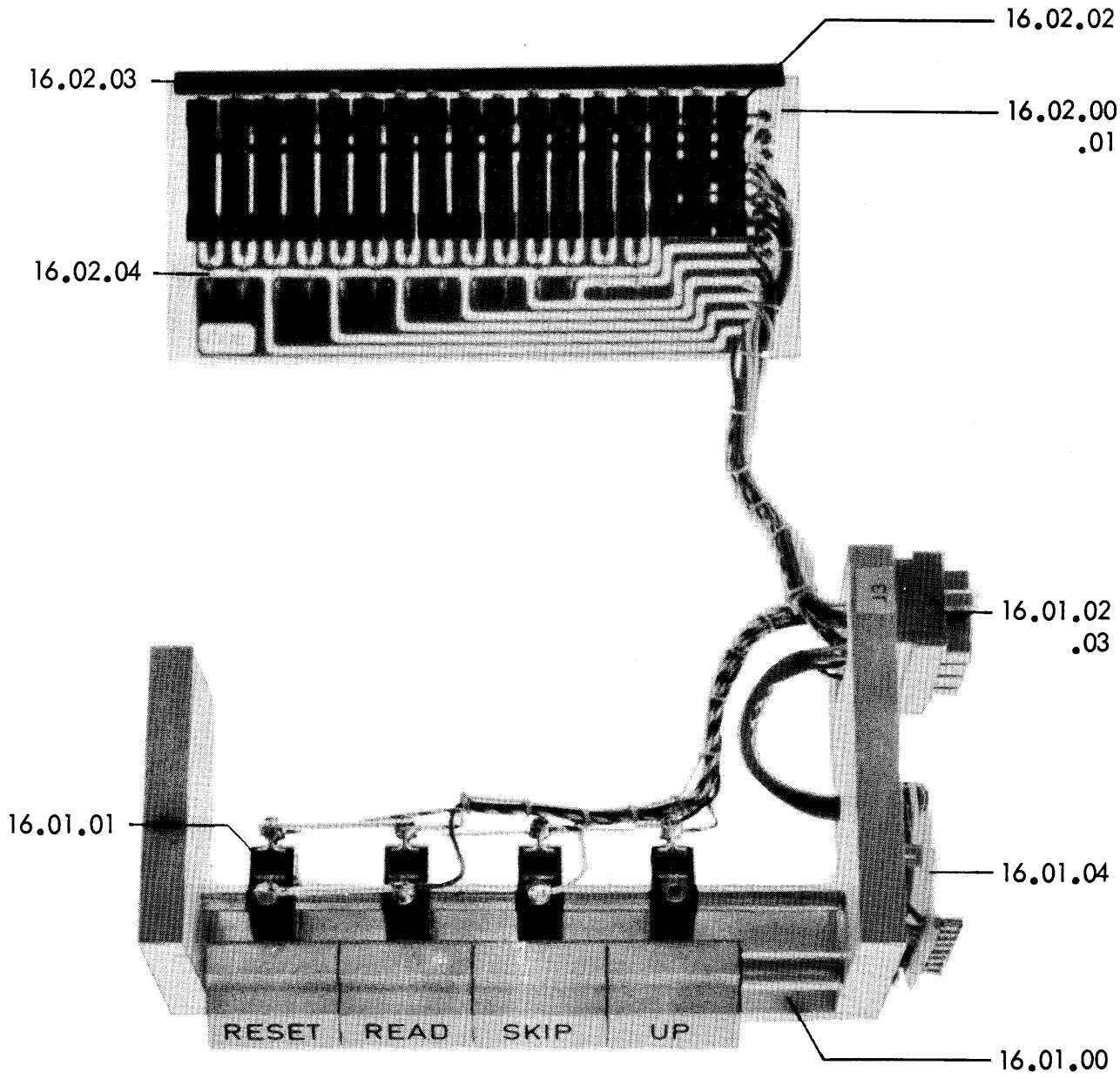
15.00.00 Pressure Lid and Tape Guide Assemblies





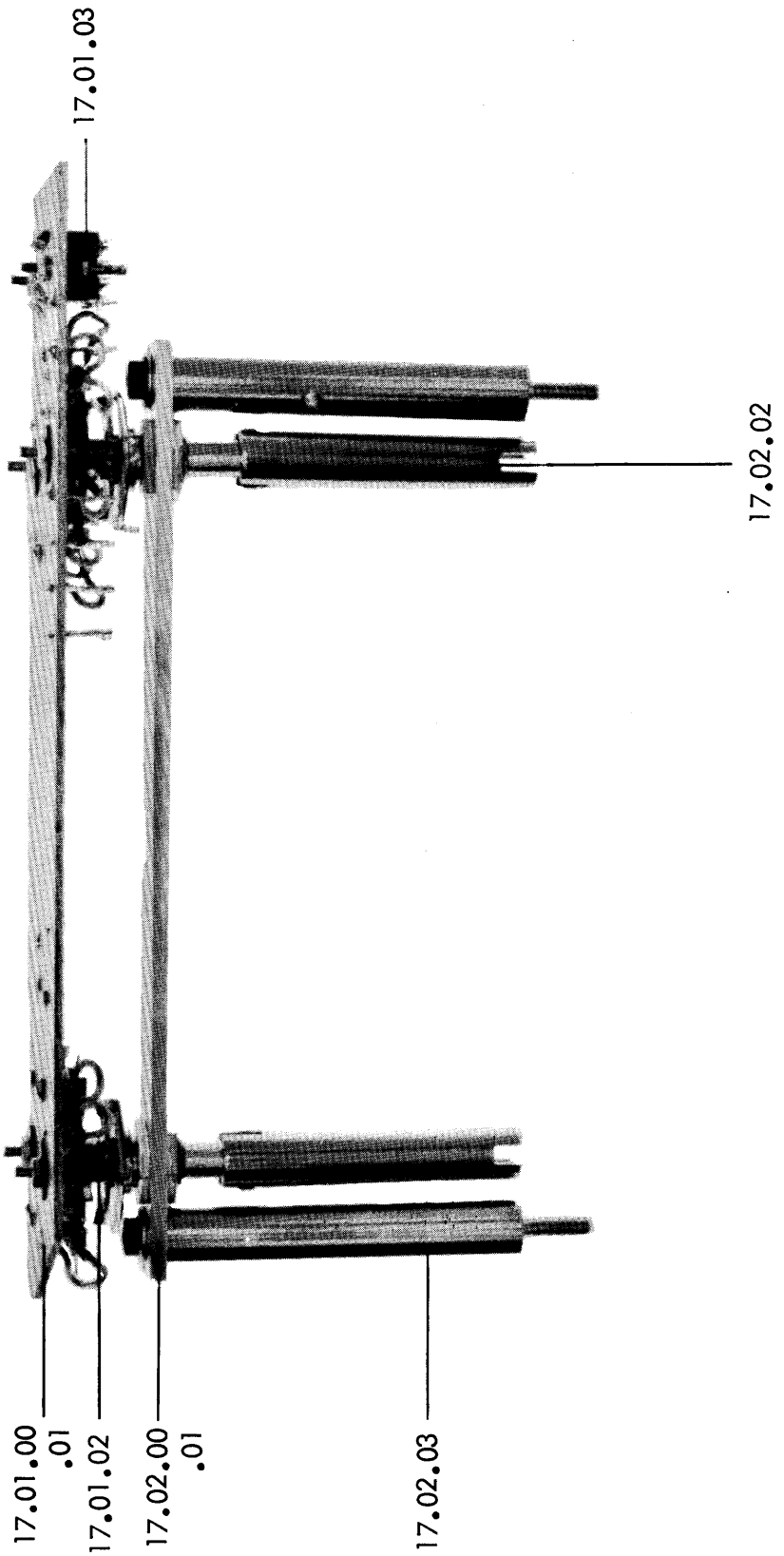
Ref.No.	Qty.	Description	RC Part No.	Note
15.00.00	1	Pressure Lid and Tape Guide assy	35213	
.01.00	1	Pressure Lid Complete	34711	
.01	1	Pressure Lid including Lens	35215	
.02	1	Pinch Roller	34602	
.03	1	Pivot, Pinch Roller	35217	
.04	1	Spring, Pinch Roller	34712	
.02.00	1	Slide Assy Complete	34714	
.01	1	Guide Shoes and Slide Bar assy	35212	
.02	1	Support, Magnet	35216	
.03	1	Screw and Retaining Ring, Magnet	35300	
.04	1	Magnet with Solenoid	35301	x)
.05	1	Solenoid	34708	x)
.06	1	Armature with Attachment	35302	
.07	1	Spring	34713	
.08	1	Rubber	35303	
.09	1	Stand Off	35304	
.03.00	1	Tape Guide Complete	34709	
.01	1	Tape Guide	35305	
.02	1	Adjustment Screw	35306	
.03	2	Spring Flat	35307	
.04	1	Retaining Screw, Spring Flat	35308	
.05	1	Mounting Plate	35309	
.06	2	Selector Block	34707	
.07	2	Spring, Selector	35310	
.08	2	Selector Knob	35311	
.09	1	Mask	31009	
.10	1	Glass	31010	
		For RC 2000 with serial Nos. from 2376 the following items have been changed		
.02.02	1	Support, Magnet	32617	
.03	1	Screw and Retaining Ring, Magnet	32618	
.04	1	Magnet type HAHN	32615	
.05	0	not existing	-	
.06	1	Armature with Attachment	32616	
		x) If the magnet is 12 mm high, then order ref. No. 15.02.00		

16.00.00 Push Button Unit



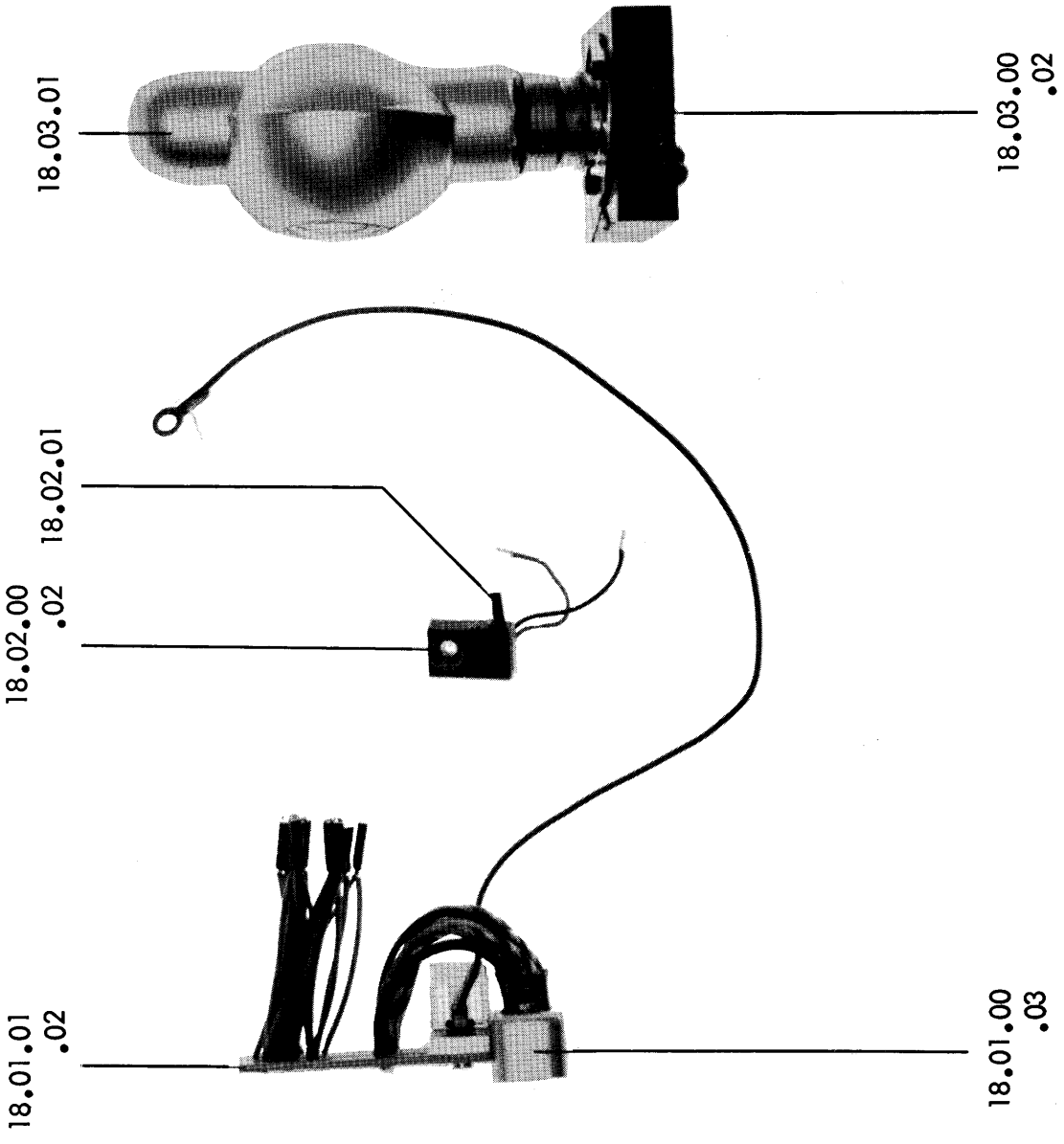
Ref.No.	Qty.	Description	RC Part No.	Note
16.00.00	1	Push Button Unit	35200	
.01.00	1	Push Button assy	35201	
.01	4	Micro Switch	12514	
.02	1	Elco Jack, 38 pins	13712	
.03	38	Crimp Contacts	13700	
.04	1	Terminal Board	35202	
.02.00	1	Printed Circuit Card 1206 complete	35203	≤2165
.01	1	Print 1206	35204	
.02	17	Potentiometer, Spectrol 5K	10904	
.00	1	Printed Circuit Card 1206 A complete	35205	>2165
.01	1	Print 1206 A	35206	
.02	17	Potentiometer, Amphenol 5K	35207	
.03	1	Name Rim	35208	
.04	14	Diode OA 95	11600	

17.00.00 Selector Switch Board Assembly



Ref.No.	Qty.	Description	RC Part No.	Note
17.00.00	1	Selector Switch Board assy	-	
.01.00	1	Printed Circuit Card 1231 complete	35103	
.01	1	Print 1231	35519	
.02	2	Selector Switch	35104	
.03	1	Harting Jack, 20 pins, female	35416	≤ 2165
.03	1	Elco Jack, 32 pins	35105	
.02.00	1	Selector Switch, Mechanical assy	35106	
.01	1	Mounting Bar	35107	
.02	2	Universal Joint Joke	35108	
.03	2	Spacer	35109	

18.00.00 Lamps and Photocells

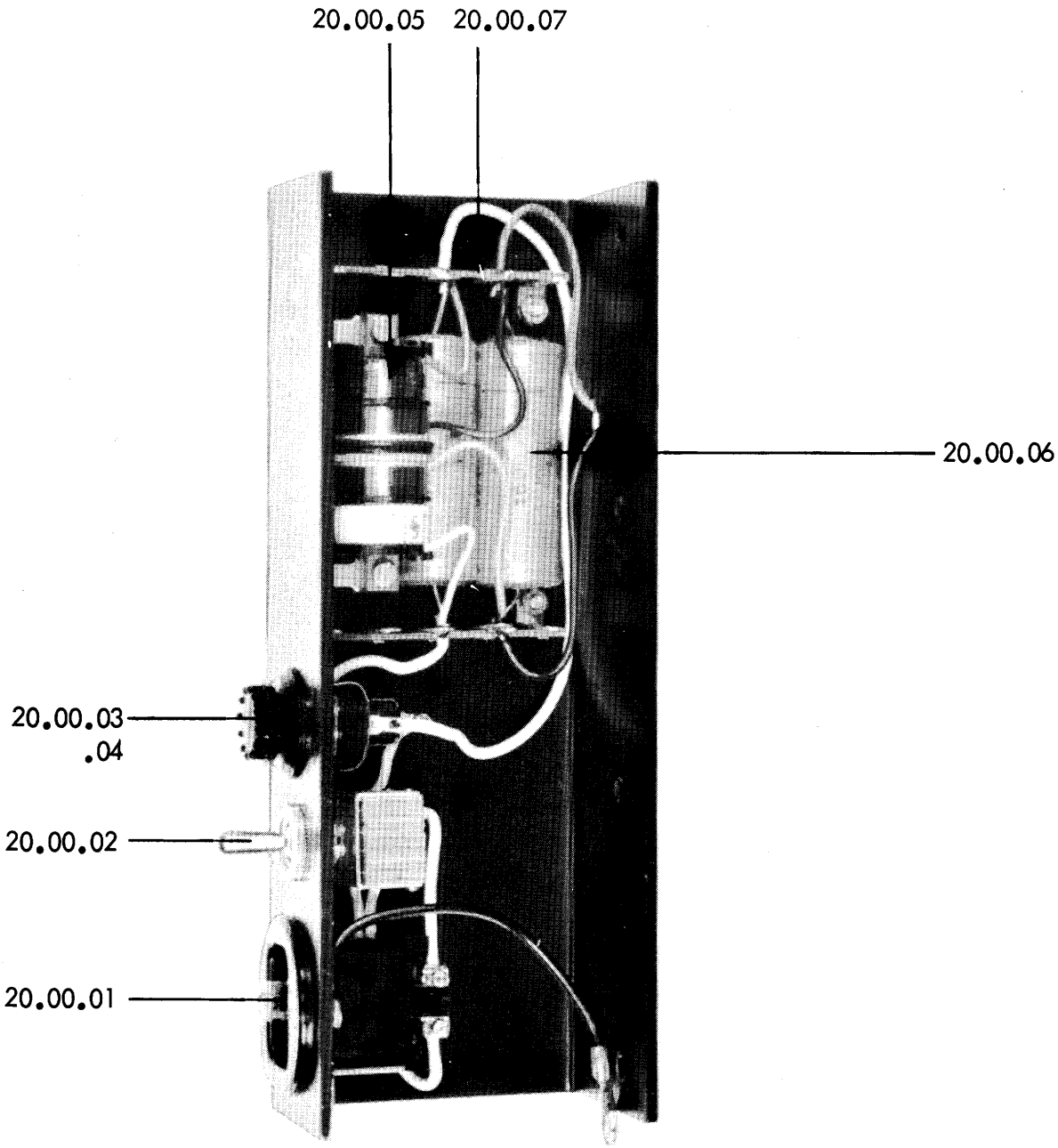


Ref.No.	Qty.	Description	RC Part No.	Note
18.00.00	1	Lamp and Photo Cells	-	
.01.00	1	Photo Sense assy	35112	
.01	1	Print 1652	35113	
.02	17	Photo Transistor 33 F2	34701	
.03	1	Connector with Support, 14 pins	35114	
.04	1	Transistor Mounting Guide	35115	
.02.00	1	Light Sense assy	35117	
.01	1	Photo Transistor 33 F2	34701	
.02	1	Support, Photo Transistor	35118	
.03.00	1	Lamp assy	35116	
.01	1	Lamp	34702	
.02	1	Lamp Socket	35119	

19.00.00 Capstan Motor Assembly

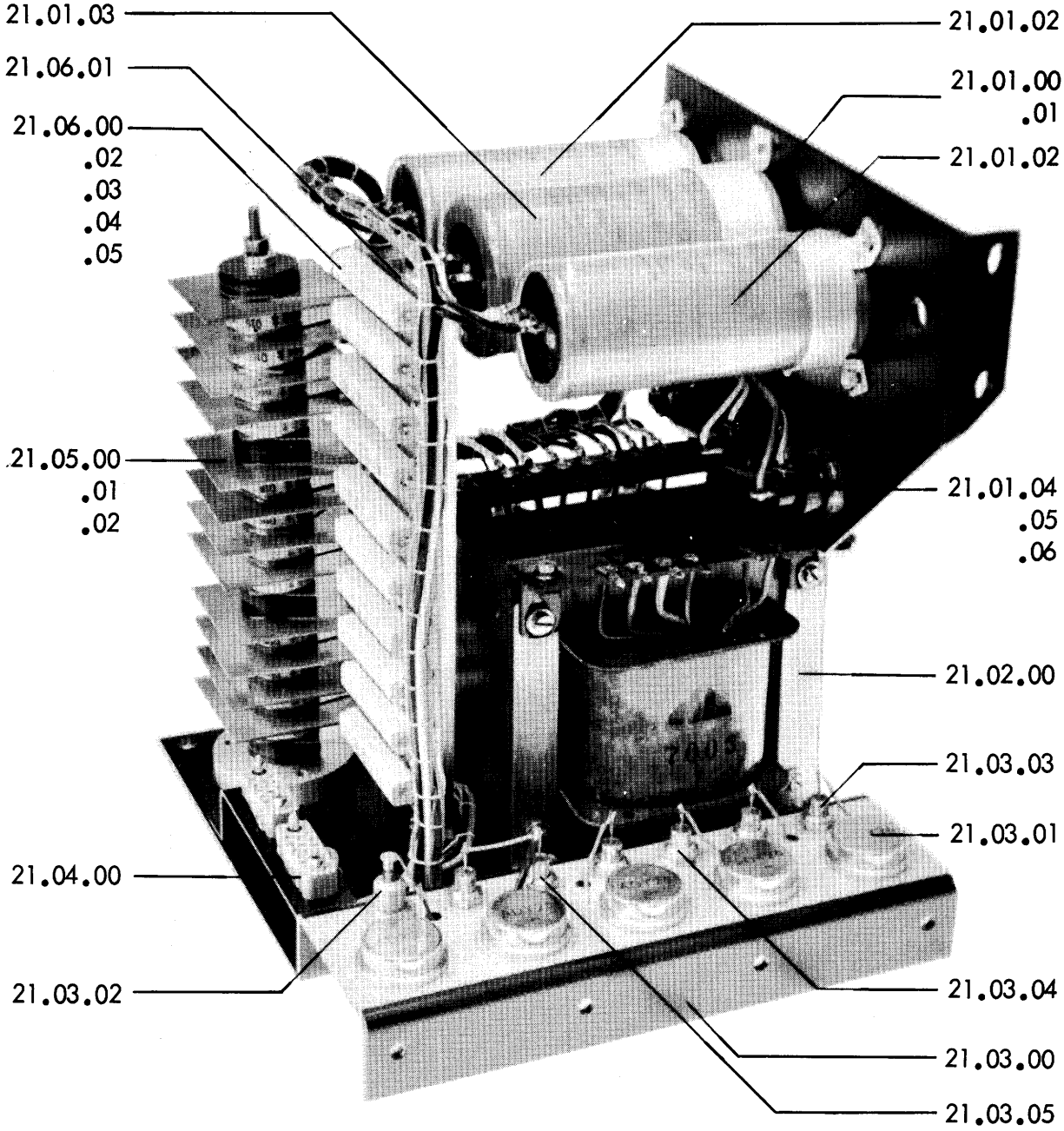
Ref.No.	Qty.	Description	RC Part No.	Note
19.00.00	1	Capstan Motor assy	-	
.01	1	Capstan Motor	34600	
.02	4	Brush, Capstan Motor	35004	
.03	1	Capstan	34601	
.04	1	Harting Plug, 14 pins	35005	≤ 2205
.04	1	Elco Plug, 20 pins 8016/20	13715	
.05	1	Plug Cover (for Harting)	35007	

20.00.00 Mains Switch Assembly



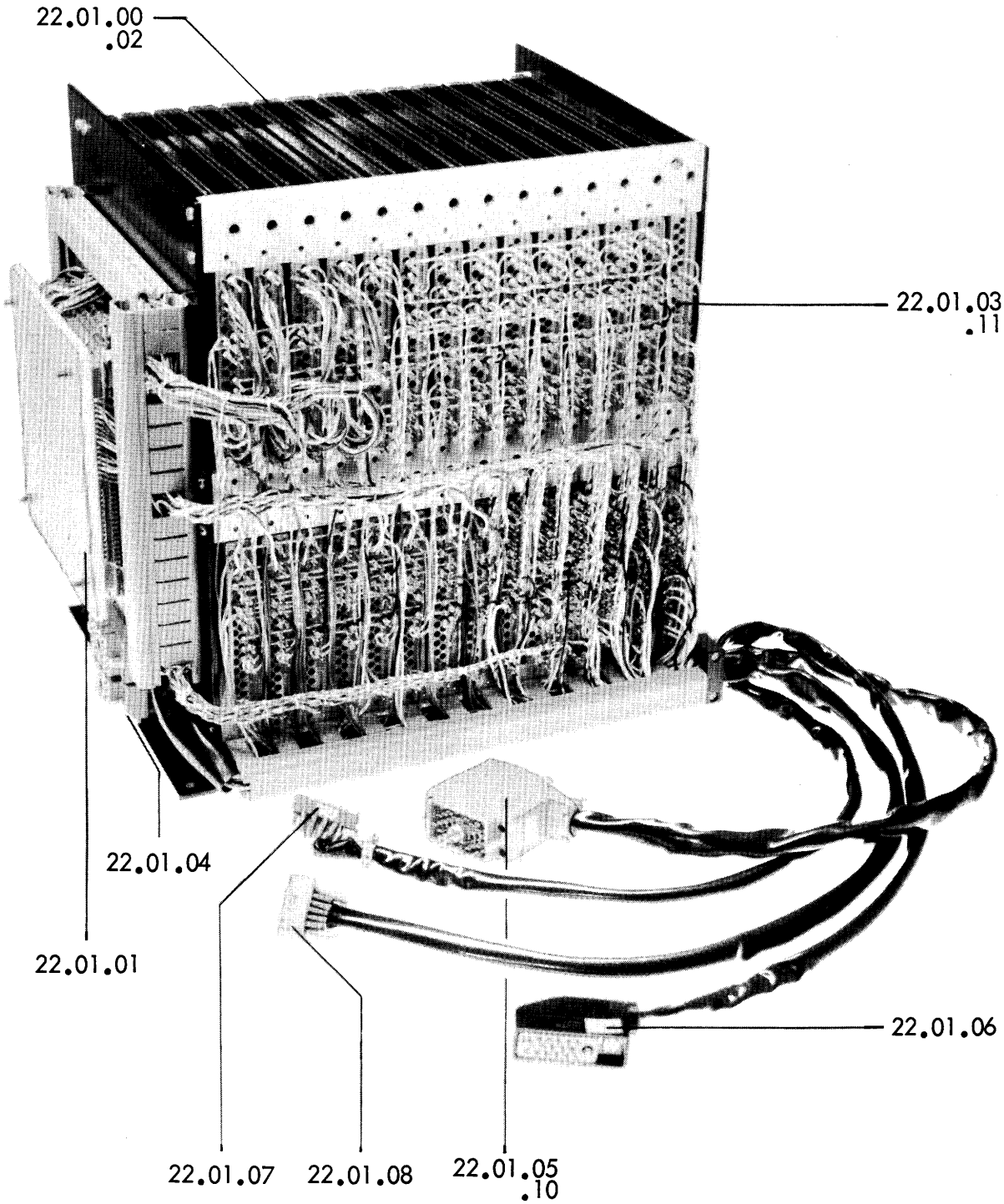
Ref.No.	Qty.	Description	RC Part No.	Note
20.00.00	1	Mains Switch assy	-	
.01	1	Connector Male	12218	
.02	1	Power Switch	35210	
.03	1	Fuse Holder	22403	
.04	1	Fuse 2 Amp, 5 x 20 mm	20806	
.05	1	Noise Filter	13203	
.06	2	Capacitor 0,1 uF, 1600 VDC	11111	
.07	2	Terminal Board	35211	
20.01.00	1	Power Cable (3,5 m)	34619	

21.00.00 Power Supply « 2205



Ref.No.	Qty.	Description	RC Part No.	Note
21.00.00	1	Power Supply Complete	-	≤ 2205
.01.00	1	Capacitor and Fuse Bank	35009	
.01	1	Mounting Plate	35010	
.02	2	Capacitor 10.000 uF, 25/30 V	35011	
.03	1	Capacitor 8.000 uF, 50/60 V	35012	
.04	4	Fuse Holder	22403	
.05	1	Fuse 3 Amp, 5 × 20 mm	20808	
.06	3	Fuse 6 Amp, 5 × 20 mm	20811	
.07	1	Capacitor 2.000 uF, 25/30 V	35013	
.08	1	Capacitor 3.000 uF, 12/15 V	35014	
.02.00	1	Transformer	34612	
.03.00	1	Semi Conductor Panel	35016	
.01	5	Transistor ADY 26	21204	
.02	1	Diode OA 31	21812	
.03	3	Diode BZZ 18	21718	
.04	1	Diode BZZ 16	21716	
.05	2	Diode BYZ 13	11616	
.04.00	2	Harting Jack, 14 pins	35017	
.05.00	1	Rectifier Stack Complete	35018	
.01	6	Diode AR 8	21811	
.02	6	Diode KR 8	21810	
.06.00	1	Resistor Panel	-	
.01	1	Terminal Board	35100	
.02	3	Resistor 4 ohm 11 w	34614	
.03	2	Resistor 5 ohm 11 w	34615	
.04	2	Resistor 10 ohm 11 w	34616	
.05	3	Resistor 50 ohm 11 w	34617	
		See also Ref. No. 24.00.00		

22.00.00 Control Electronics

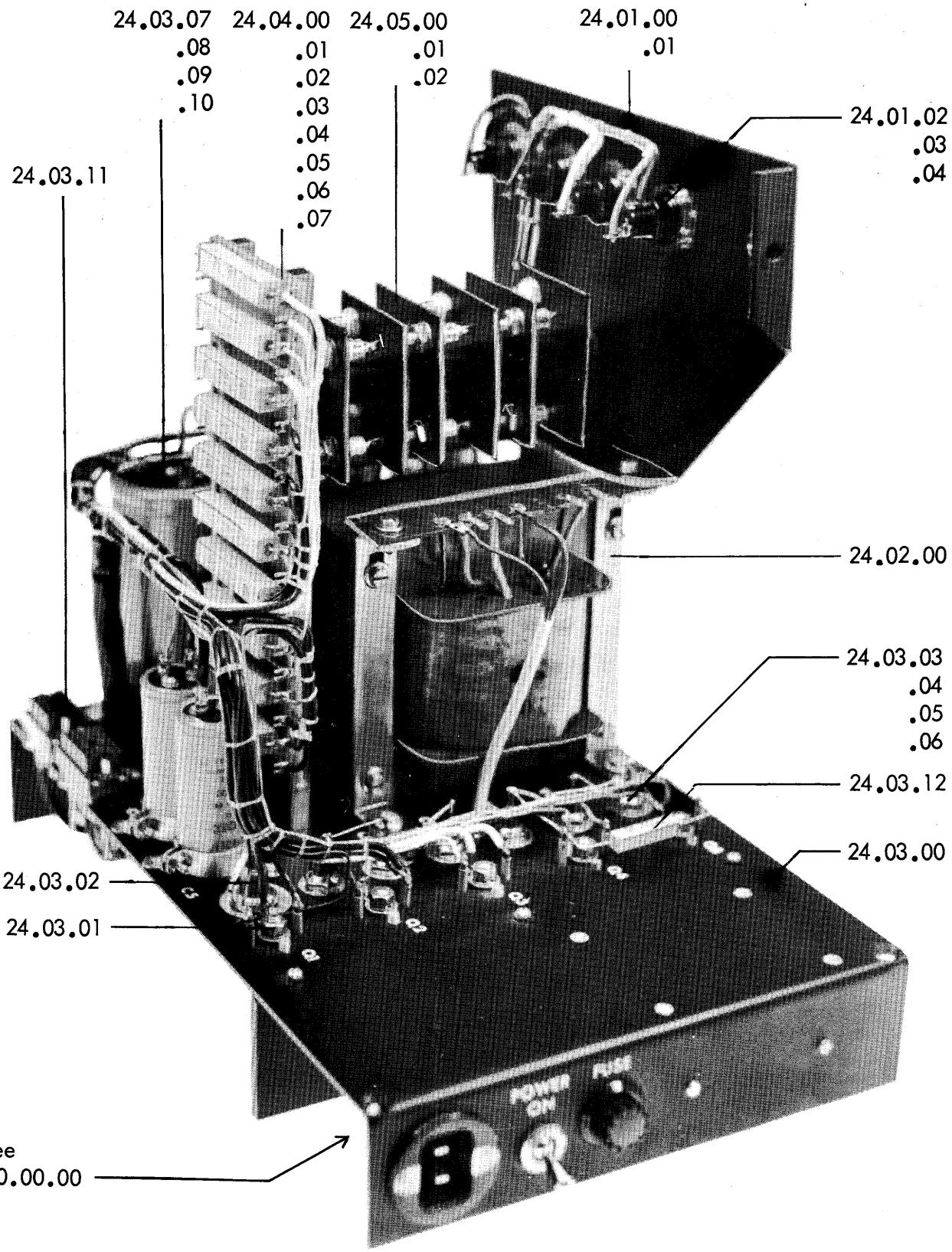


Ref.No.	Qty.	Description	RC Part No.	Note
22.00.00	1	Control Electronics complete with parts 35406, 13706, 13712, 35110 13715	35404	x)
.01.00	1	Card Cage, wired with Core Store and Plugs, as 22.00.00 without PC Cards	35405	
.01	1	Core Store	35414	
.02	42	Guide PC Cards	13908	≤ 2165
.02	42	Guide PC Cards	35406	
.03	56	Siemens Jack, 15 pins	12206	≤ 2165
.03	28	Elco Jack 7023-35, 35 pins	13706	
.04	2	Tuchel Jack, 30 pins, male	12207	≤ 2165
.04	2	Elco Jack, 38 pins, 8016-38	13712	
.05	1	Elco Plug, 38 pins, 8016-38	13713	
.06	1	Harting Plug, 20 pins, male	35417	≤ 2165
	1	Harting Plug, Cover	35418	≤ 2165
.06	1	Elco Plug with 32 special pins	35110	
.07	1	Harting Plug Min. 14, male	35005	≤ 2205
	1	Harting Plug, Cover	35007	≤ 2205
.07	1	Elco Plug, 20 pins	13715	
.08	1	Continental Plug, SM-14	35410	
	1	Continental Plug, Cover	35419	
.09	1	Transition Cable for Elco Plug 07 and Harting Jack corresponding to 07	35412	
.10		Elco pins crimp	13700	
.11		Elco pins wrap	13703	

x) Control Electronics 22.00.00 is replacement part for RC 2000 with No. ≥ 2165. However transition cable 09 is used for RC 2000 with No. ≤ 2205.

Complete Control Electronic is not available for RC 2000 with No. ≤ 2165.

24.00.00 Power Supply



Ref.No.	Qty.	Description	RC Part No.	Note
24.00.00	1	Power Supply Complete	35008	> 2205
.01.00	1	Fuse Panel	35313	
.01	1	Mounting Plate	35314	
.02	4	Fuse Holder	22403	
.03	1	Fuse 3 Amp, 5 x 20 mm	20808	
.04	3	Fuse 6 Amp, 5 x 20 mm	20811	
.02.00	1	Transformer	34612	
.03.00	1	Base Plate	35315	
.01	5	Transistor ADY 26	21204	
.02	1	Diode OA 31	21812	
.03	2	Diode BZZ 17	21717	
.04	1	Diode BZZ 18	21718	
.05	1	Diode BZZ 16	21716	
.06	2	Diode BYZ 13	11616	
.07	1	Capacitor 2.000 uF, 25/30 V	35013	
.08	1	Capacitor 3.000 uF, 12/15 V	35014	
.09	2	Capacitor 10.000 uF, 25/30 V	35011	
.10	1	Capacitor 8.000 uF, 50/60 V	35012	
.11	2	Elco Jack, 20 pins	13714	
.12	1	Resistor 300 ohm 9 w	35316	
.04.00	1	Resistor Panel	-	
.01	1	Terminal Board	35317	
.02	3	Resistor 4 ohm 11 w	34614	
.03	2	Resistor 5 ohm 11 w	34615	
.04	2	Resistor 10 ohm 11 w	34616	
.05	1	Resistor 50 ohm 11 w	34617	
.06	1	Resistor 45 ohm 11 w	35318	
.07	1	Resistor 25 ohm 11 w	35319	
.05.00	1	Rectifier Stack Complete	35400	
.01	6	Diode Westinghouse 367 B	21911	
.02	6	Diode Westinghouse 367 B,R	21912	
		See also Mains Switch assy page 20.1		

Ref.No.	Qty.	Description	RC Part No.	Note
40.00.00	1	Printed Circuit Card 1371 complete	36913	
.01	1	Print 1371	-	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	7	Transistor SFT 228	11507	
.04	9	Diode OA 95	11600	
.05	3	Diode OA 200	21303	
.06	1	Resistor 100 ohm 1/3 w	10307	
.07	1	Resistor 200 ohm 1/3 w	10314	
.08	1	Resistor 430 ohm 1/3 w	10402	
.09	2	Resistor 1 K 1/3 w	10411	
.10	1	Reisitor 2 K 1/3 w	10418	
.11	3	Resistor 5,6 K 1/3 w	10509	
.12	3	Resistor 6,8 K 1/3 w	10511	
.13	3	Resistor 8,2 K 1/3 w	10513	
.14	4	Resistor 27 K 1/3 w	15908	
.15	1	Resistor 1,5 K 1/2 w	15512	
.16	5	Resistor 3 K 1/2 w	15519	
.17	4	Resistor 30 ohm HSS 1%	22312	
.18	5	Capacitor 390 pF	15218	
.19	1	Capacitor 470 pF	11006	
.20	1	Capacitor 560 pF	15219	
.21	1	Capacitor 820 pF	11008	
.22	1	Capacitor 1 nF	15215	
.23	1	Capacitor 0,47 uF MKL	11103	

Ref.No.	Qty.	Description	RC Part No.	Note
41.00.00	1	Printed Circuit Card 1200-1 complete	35508	
.01	1	Print 1200	35518	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	6	Transistor SFT 228	11507	
.04	1	Transistor 2N 388	11501	
.05	10	Diode OA 85	21301	
.06	2	Diode OA 95	11600	
.07	1	Diode OA 200	21303	
.08	2	Resistor 1 K 1/3 w	10411	
.09	3	Resistor 5,6 K 1/3 w	10509	
.10	1	Resistor 6,2 K 1/3 w	10510	
.11	3	Resistor 6,8 K 1/3 w	10511	
.12	2	Resistor 8,2 K 1/3 w	10513	
.13	3	Resistor 27 K 1/3 w	15908	
.14	1	Resistor 100 K 1/3 w	16002	
.15	6	Resistor 3 K 1/2 w	15519	
.16	2	Capacitor 150 pF	11003	
.17	7	Capacitor 390 pF	15218	
.18	1	Capacitor 0,47 uF MKL	11103	
.19	1	Capacitor 2,2 uF MKL	11105	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
41.00.00	1	Printed Circuit Card 1200-1 complete	35608	
.01	1	Print 1200	35618	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
		ENGINEERING CHANGES		
41.00.00	1	Printed Circuit Card 1200-3 complete	35403	≥2246
.01	1	Print 1200	35518	
.13	4	Resistor 27 K 1/3 w	15908	
		By ordering Spare Printed Circuit Card for No. ≥2166 use 1200-3.		

Ref.No.	Qty.	Description	RC Part No.	Note
42.00.00	8	Printed Circuit Card 1201 complete	35507	
.01	1	Print 1201	35517	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	6	Transistor SFT 228	11507	
.04	1	Transistor 2N 388	11501	
.05	37	Diode OA 95	11600	
.06	4	Resistor 2 K 1/8 w	10607	
.07	1	Resistor 3 K 1/8 w	10611	
.08	4	Resistor 4,3 K 1/8 w	10615	
.09	4	Resistor 4,7 K 1/8 w	10616	
.10	7	Resistor 10 K 1/8 w	10704	
.11	7	Resistor 27 K 1/8 w	10714	
.12	4	Resistor 3 K 1/2 w	15519	
.13	8	Capacitor 390 pF	15218	
.14	1	Capacitor 0,47 uF	11103	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
42.00.00	8	Printed Circuit Card 1201 complete	35607	
.01	1	Print 1201	35617	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
43.00.00	8	Printed Circuit Card 1202 complete	35506	
.01	1	Print 1202	35516	
.02	2	Elco Plug 7023, 35 pins	13707	
.03	6	Transistor SFT 228	11507	
.04	1	Transistor SFT 288	21001	
.05	3	Transistor 2N 388	11501	
.06	2	Transistor 2N 2048	11504	
.07	2	Transistor V 410	21916	
.08	3	Diode OA 95	11600	
.09	8	Diode HG 5002 (or HD 1942)	11602	
.10	1	Resistor 27 ohm 1/8 w	15010	
.11	2	Resistor 100 ohm 1/8 w	15104	
.12	3	Resistor 220 ohm 1/8 w	15112	
.13	6	Resistor 1 K 1/8 w	10600	
.14	1	Resistor 1,5 K 1/8 w	10604	
.15	4	Resistor 2 K 1/8 w	10607	
.16	1	Resistor 3,3 K 1/8 w	10612	
.17	1	Resistor 3,9 K 1/8 w	10614	
.18	5	Resistor 5,6 K 1/8 w	10618	
.19	1	Resistor 10 K 1/8 w	10704	
.20	4	Resistor 15 K 1/8 w	10708	
.21	1	Resistor 16 K 1/8 w	10709	
.22	1	Resistor 27 K 1/8 w	10714	
.23	1	Resistor 51 K 1/8 w	10801	
.24	1	Resistor 56 K 1/8 w	10802	
.25	1	Resistor 82 K 1/8 w	10806	
.26	1	Resistor 100 K 1/8 w	10808	
.27	2	Resistor 15 ohm HSS 1%	22313	
.28	3	Capacitor 0,1 uF	11101	
.29	1	Capacitor 0,47 uF MKL	11103	
.30	1	Capacitor 100 uF 16 v	11215	
.31	4	Capacitor 390 pF	15218	
.32	1	Potcore K 300.210	22300	
.33	1	Coil	22306	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
43.00.00	8	Printed Circuit Card 1202 complete	35606	
.01	1	Print 1202	35616	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
44.00.00	4	Printed Circuit Card 1203 complete	35505	
.01	1	Print 1203	35515	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	16	Transistor SFT 288	11507	
.04	3	Transistor 2N 388	11501	
.05	48	Diode HG 5002 (or HD 1942)	11602	
.06	16	Resistor 560 ohm 1/3 w	10405	
.07	3	Resistor 1,2 K 1/3 w	10413	
.08	2	Capacitor 390 pF	15218	
.09	1	Capacitor 2,2 nF	14904	
.10	2	Capacitor 0,47 uF MKL	11103	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
44.00.00	4	Printed Circuit Card 1203 complete	35605	
.01	1	Print 1203	35615	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
45.00.00	1	Printed Circuit Card 1205-1 complete	35504	
.01	1	Print 1205	35514	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	3	Transistor SFT 228	11507	
.04	6	Transistor 2N 388	11501	
.05	3	Transistor V 410	21916	
.06	1	Diode BZY 66	21412	
.07	2	Diode OA 200	21303	
.08	1	Diode Z 10	21509	
.09	1	Resistor 10 ohm 1/3 w	10301	
.10	1	Resistor 200 ohm 1/3 w	10314	
.11	2	Resistor 330 ohm 1/3 w	10319	
.12	1	Resistor 390 ohm 1/3 w	10401	
.13	2	Resistor 1 K 1/3 w	10411	
.14	1	Resistor 1,2 K 1/3 w	10413	
.15	1	Resistor 1,6 K 1/3 w	10416	
.16	1	Resistor 3 K 1/3 w	10502	
.17	1	Resistor 5,6 K 1/3 w	10509	
.18	3	Resistor 10 K 1/3 w	10515	
.19	1	Resistor 12 K 1/3 w	15819	
.20	1	Resistor 18 K 1/3 w	15904	
.21	2	Resistor 27 K 1/3 w	15908	
.22	1	Resistor 30 K 1/3 w	15909	
.23	1	Resistor 51 K 1/3 w	15915	
.24	1	Resistor 100 K 1/3 w	16002	
.25	1	Resistor 200 K 1/3 w	16009	
.26	1	Resistor 110 ohm 1 w	16309	
.27	1	Capacitor 0,1 uF	11101	
.28	1	Capacitor 1 uF MKL	11104	
.29	1	Capacitor 4,7 uF MKB	11106	
		For RC 2000 with serial No. less or equal to 2165 the descriptions and RC part No. are changed for the following REF. Nos.		
45.00.00	1	Printed Circuit Card 1205-1 complete	35604	
.01	1	Print 1205	35614	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
		ENGINEERING CHANGES		
45.00.00	1	Printed Circuit Card 1205 A complete	x)	⩾2246
.01	1	Print 1205 A	35407	
.08	1	Diode O A Z 204	21514	
.30	1	Potentiometer, Amphenol, 5 K	35207	
45.00.00	1	Printed Circuit Card 1205 A-1 complete	35408	⩾2286
.01	1	Print 1205 A	35407	
.03	2	Transistor STF 228	11507	
.08	1	Diode O A Z 204	21514	
.30	1	Potentiometer, Amphenol 5 K	35207	
.31	1	Transistor 2N 527	11503	
		x) By ordering Spare Printed Circuit Card for No. ⩾2166 use 1205 A-1.		

Ref.No.	Qty.	Description	RC Part No.	Note
46.00.00	1	Printed Circuit Card 1212-1 complete	35503	
.01	1	Print 1212	35513	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	6	Transistor SFT 228	11507	
.04	1	Transistor 2N388	11501	
.05	13	Diode OA95	11600	
.06	1	Diode OA200	21303	
.07	1	Resistor 1 K 1/3 w	10411	
.08	1	Resistor 2 K 1/3 w	10418	
.09	5	Resistor 5,6 K 1/3 w	10509	
.10	5	Resistor 6,8 K 1/3 w	10511	
.11	1	Resistor 8,2 K 1/3 w	10513	
.12	5	Resistor 27 K 1/3 w	15908	
.13	1	Resistor 1,5 K 1/2 w	15512	
.14	5	Resistor 3 K 1/2 w	15519	
.15	1	Resistor 20 K 1/2 w	15905	
.16	10	Capacitor 390 pF	15218	
.17	1	Capacitor 680 pF	14903	
.18	1	Capacitor 0,47 uF MKL	11103	
.19	1	Capacitor 47 uF Tantal	10516	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. No.		
46.00.00	1	Printed Circuit Card 1212 complete	35603	
.01	1	Print 1212	35613	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
47.00.00	1	Printed Circuit Card 1213 complete	35502	
.01	1	Print 1213	35512	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	1	Transistor SFT 228	11507	
.04	3	Transistor 2N 388	11501	
.05	3	Transistor 2N 2048	11504	
.06	16	Diode OA 95	11600	
.07	8	Diode OA 200	21303	
.08	4	Diode HG 5002 (or HD 1942)	11602	
.09	7	Resistor 1 K 1/3 w	10411	
.10	8	Resistor 2 K 1/3 w	10418	
.11	1	Resistor 3 K 1/3 w	10502	
.12	1	Resistor 4,3 K 1/3 w	10506	
.13	3	Resistor 10 K 1/3 w	10515	
.14	2	Capacitor 1,5 nF	14900	
.15	1	Capacitor 2,2 nF	14904	
.16	1	Capacitor 47 nF	14902	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
47.00.00	1	Printed Circuit Card 1213 complete	35602	
.01	1	Print 1213	35612	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
48.00.00	1	Printed Circuit Card 1224 complete	35501	
.01	1	Print 1224	35511	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	13	Transistor SFT 228	11507	
.04	4	Transistor 2N 388	11501	
.05	8	Diode OA 95	11600	
.06	1	Diode BZY 69	21414	
.07	1	Diode ZF 5,6	21518	
.08	5	Resistor 1 K 1/8 w	10600	
.09	9	Resistor 2 K 1/8 w	10607	
.10	2	Resistor 2,4 K 1/8 w	10609	
.11	1	Resistor 3,9 K 1/8 w	10614	
.12	8	Resistor 5,1 K 1/8 w	10617	
.13	12	Resistor 5,6 K 1/8 w	10618	
.14	10	Resistor 10 K 1/8 w	10704	
.15	1	Resistor 12 K 1/8 w	10706	
.16	8	Resistor 15 K 1/8 w	10708	
.17	1	Resistor 20 K 1/8 w	10711	
.18	1	Resistor 68 K 1/8 w	10804	
.19	3	Capacitor 390 pF	15218	
.20	1	Capacitor 1 nF	15215	
.21	1	Capacitor 1,5 nF	14900	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
48.00.00	1	Printed Circuit Card 1224 complete	35601	
.01	1	Print 1224	35611	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
49.00.00	1	Printed Circuit Card 1227 complete	35500	
.01	1	Print 1227	35510	
.02	1	Elco Plug 7023, 35 pins	13707	
.03	5	Transistor SFT 228	11507	
.04	1	Transistor 2N 388	11501	
.05	1	Transistor ASY 77	21219	
.06	6	Diode OA 85	21301	
.07	5	Resistor 1 K 1/3 w	10411	
.08	2	Resistor 5,6 K 1/3 w	10509	
.09	1	Resistor 2,4 K 1/3 w	10500	
.10	1	Resistor 8,2 K 1/3 w	10513	
.11	2	Resistor 15 K 1/3 w	15902	
.12	1	Resistor 20 K 1/3 w	15905	
.13	1	Resistor 10 K 1/3 w	10515	
.14	2	Capacitor 390 pF	15218	
.15	1	TFA Relay	12909	
		For RC 2000 with serial No. less or equal to 2165 the description and RC part No. are changed for the following REF. Nos.		
49.00.00	1	Printed Circuit Card 1227 complete	35600	
.01	1	Print 1227	35610	
.02	2	Siemens Plug, 15 pins	12205	

Ref.No.	Qty.	Description	RC Part No.	Note
		ENGINEERING CHANGES		
49.00.00	1	Printed Circuit Card 1227 A complete x)	35411	≥2286
.01	1	Print 1227 A	35413	
.16	1	Resistor 6,8 K 1/3 W	10511	
		x) By ordering Spare Printed Circuit Card for No. ≥2166 use 1227 A		

Ref.No.	Qty.	Description	RC Part No.	Note
		List of Accessories Paper Tape Reader		
	3	Users Manual	GSL 289	
	1	Technical Manual		
	1	Spare Parts Catalog		
	1	Calibrating prism	34715	
	1	Adj. Prism (with ironplate)	34716	
	1	Set of Hexagonal Keys Kit HS 211	33214	
	1	Screw Driver 605/30	24809	
15.01.02	1	Pinch Roller	34602	
19.00.03	1	Tape Drive Capstan	34601	
18.03.08	1	Lamp 8V/50W No. 13113C/04	34702	
20.00.04	2	Fuse 2 Amp.	20806	
24.01.03	2	Fuse 3 Amp.	20808	
24.01.04	4	Fuse 6 Amp.	20811	
	1	Elco Plug type 8016-038-000-004	13713	
	38	Contacts 216-8017.0413	13704	
20.01.00	1	Power Cable 3.5 m	34619	
13.02.00	1	Filter P 15/500	34710	
	1	Spacer for 5 channel Tape	35003	

A/S REGNECENTRALEN
SCANDINAVIAN INFORMATION PROCESSING SYSTEMS

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