# PROGRAMMABLE ELECTRO-LACQUER RECTIFIER USER MANUAL

Read user manual carefully before set up the rectifier.

SETTING UP THE RECTIFIER

Place the rectifier on a flat ground. Rectifier working space has to be not moist, wet and there must be enough distance around the rectifier for ventilation. Rectifier do not exposed to direct heat source.

Plug in energy cable to suitable grounded socket (AC 220 V 50 Hz.).

Rectifier has positive and negative terminals to make output connections. Red coloured terminal is positive end (+, anode) and black coloured terminal is negative end (–, cathode). Take care of the cable connections are tighten.
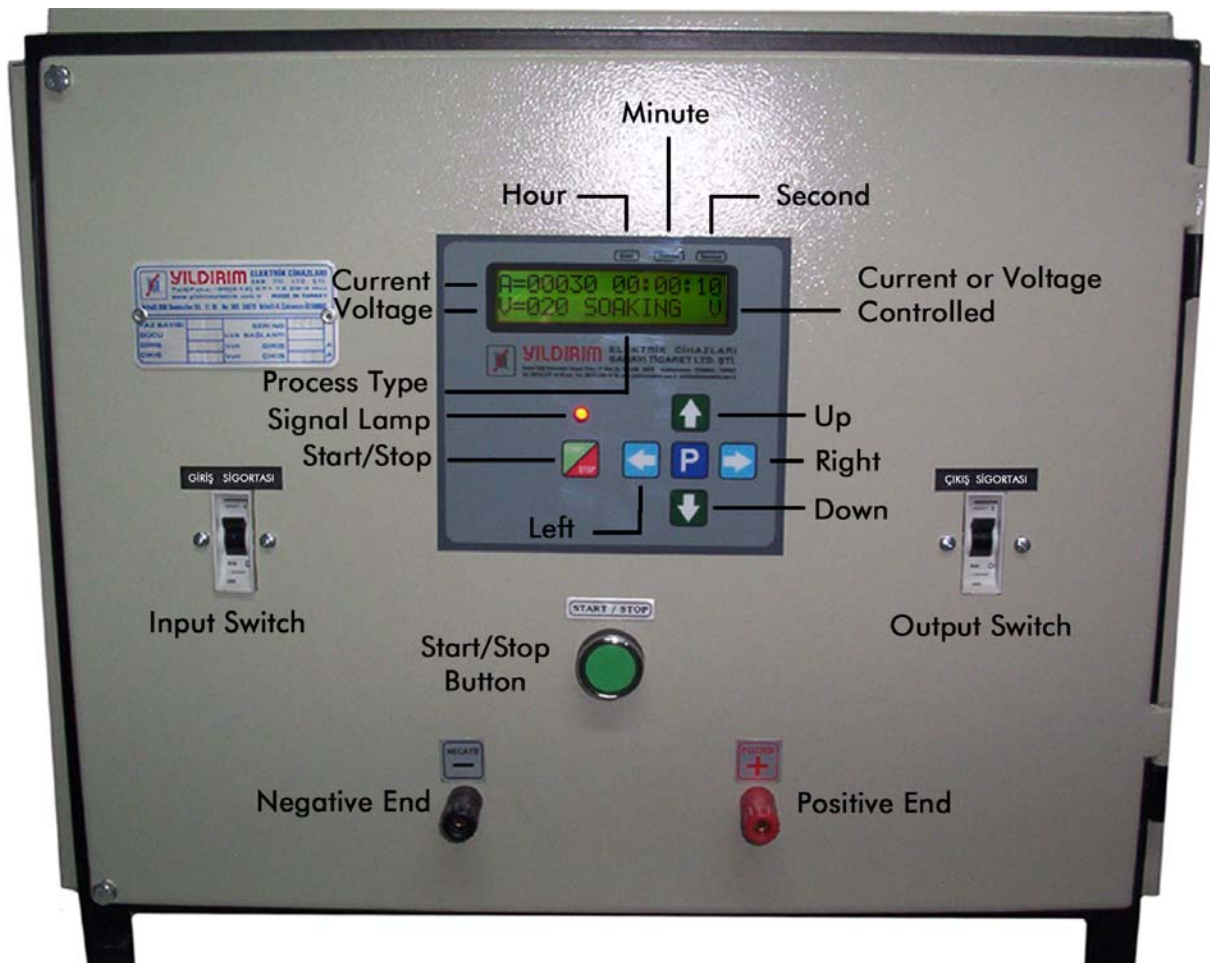
PROGRAMMING

Before start the rectifier, rectifier running parameters have to be programmed and stored in system memory. When the system is shut down, the parameters not be lost. In case of to start the system, rectifier runs at programmed values.

Memory has 3 processing programs: These are SOAKING, RISING and WORKING. To enter parameters use RIGHT, LEFT, UP and DOWN ARROW buttons. RIGHT and LEFT ARROW buttons select the indicator that ready to accept increment or decrement. Set desired value by pressing UP and DOWN ARROW buttons.

To change process time, use RIGHT and LEFT buttons to go first digit of process program. Press UP and DOWN buttons to select desired process type which you want to modify (SOAKING, RISING or WORKING) and set HOUR, MINUTE, SECOND intervals.

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PROCESS TIME

System has 3 process times. These are SOAKING, RISING and WORKING.

1- SOAKING : During "Soaking Time" rectifier output does notproduce voltage. If you do not want to use "Soaking Time", set 00:00:00.

2- RISING : Rectifier reaches the voltage value that entered voltage digit, throughout "Rising Time". For example, to assume voltage 20 Volt and Rising Time 20 seconds, when SOAKING time is ends, voltage starts to rise 1 Volt per a minute and reaches 20 Volts at 20 seconds.

3- WORKING : It is the working period of time at programmed voltage. It puts into use afterwards Rising Time ends and when programmed period of time finishes, it automatically stops.
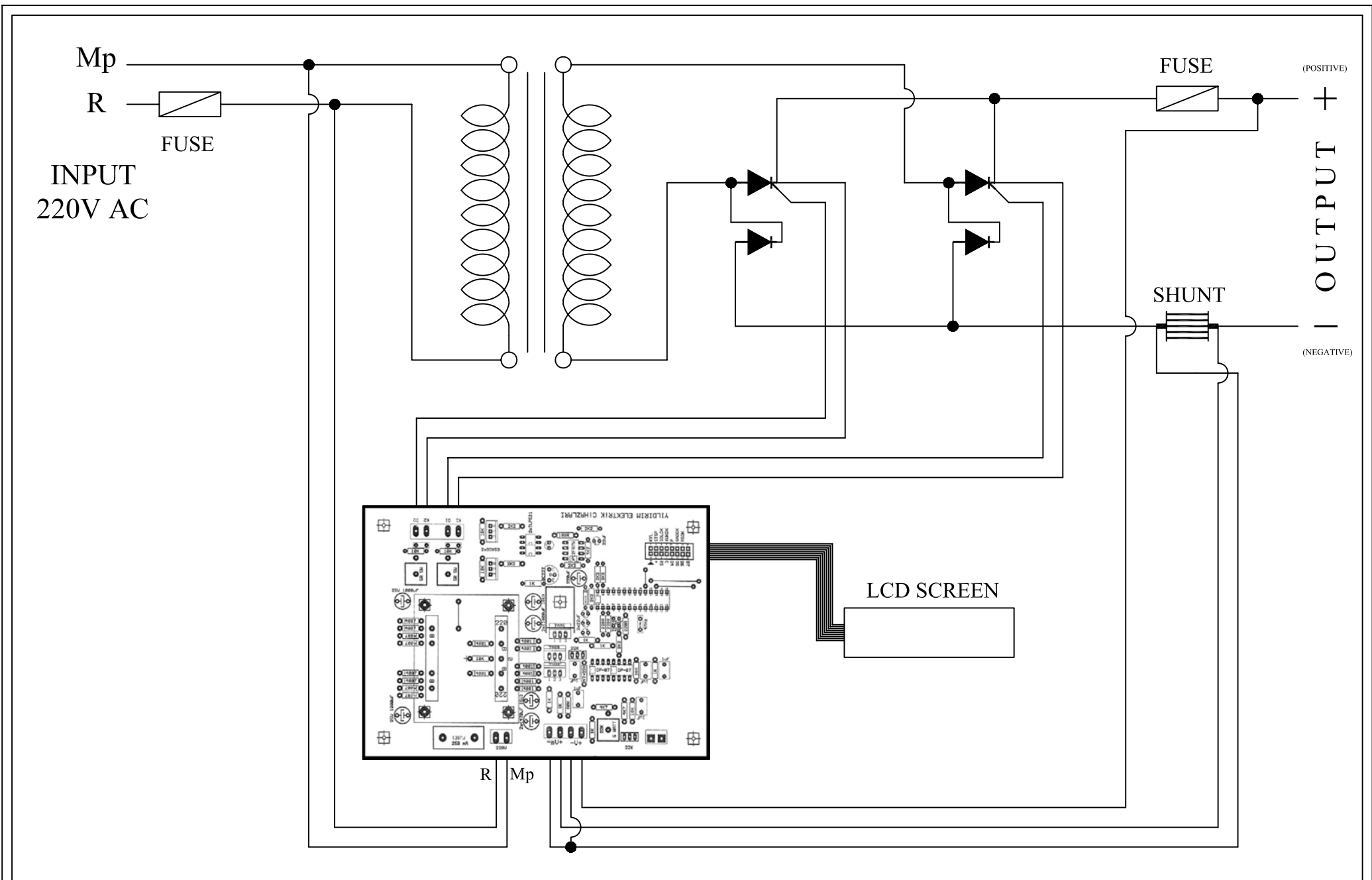

CURRENT AND VOLTAGE PROGRAMMING

Before start to run rectifier, program CURRENT or VOLTAGE to desired value. If current controlled mode is desired, program the current value on which the rectifier operates by fixing output. In other words rectifier gives fix current on output, but voltage changes according to the load. Bring blinking cursor to right lower corner of LCD and set A (manual current control).

If voltage controlled mode is desired, program the voltage value on which the rectifier operates by fixing output. In other words rectifier gives fix voltage on output , but current changes according to the load. Bring blinking cursor to right lower corner of LCD and set V (manual voltage control).

START / STOP

After required settings fixed, to start operation, press two coloured (red/green) START/STOP button. The colour of led indicator becomes green to indicate start of operation and time value begins countdown. During "Soaking Time" current and voltage displays are zero. At that time rectifier not gives output. When "Rising Time" begins voltage starts to rise. At the end of rising time, rectifier begins to working. When "Working Time" reaches to zero, rectifier stops automatically and led indicator becomes red. If you wish to stop rectifier manually in any time, press two coloured START/STOP button or GREEN one (it added for easy use). Rectifier cancel process and stops, led indicator becomes red. In this case all displays turn their programmed values.

Mp

R

FUSE

INPUT
220V AC

FUSE

(POSITIVE)

+

OUTPUT

SHUNT

(NEGATIVE)

YILDIRIM ELEKTRIK CIHAZLARI

LCD SCREEN

R   Mp