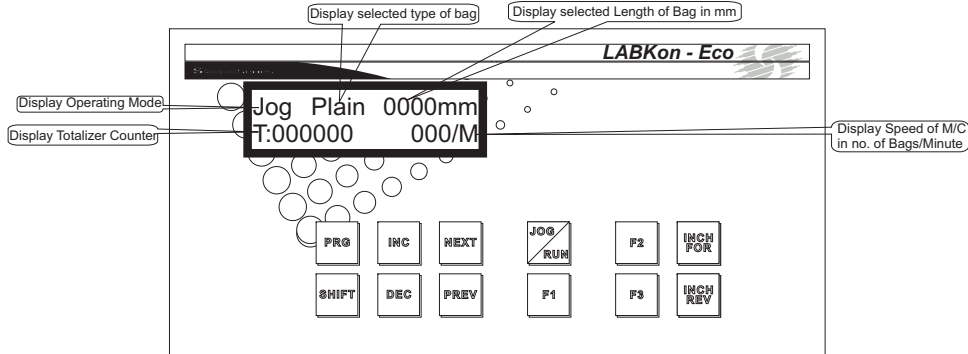


# OPERATING INSTRUCTION

For more detailed information please consult the installation reference or user manual.  
Front Sticker Description



### Description of Keys

#### Operating Mode Selector

JOG/RUN : Push this key for toggle between RUN & JOG(Inching) mode.

#### Program Mode Selector

PRG : Push this key for enter in SET PROGRAM menu.

#### Cursor Keys

INC : PRG Mode: Push this key for increase digit value

RUN Mode: Push this key for increments label length.

DEC : PRG Mode: Push this key for decrease digit value

RUN Mode: Push this key for decrements label length .

SHIFT : PRG Mode: Push this key for shift cursor from left to right

RUN Mode: Not in use.

NEXT : PRG Mode: Push this key for save current parameters & switch to next parameter.

RUN Mode: Switches menus (I) Regular menu (ii) Input / Output status menu (iii) Speed menu .

PREV : PRG Mode: Push this key for switch to previous parameter.

RUN Mode: Push this key for view all parameters & set it's value.

#### Functional Keys

INCH FOR : Push this key for run motor in forward direction in JOG mode only.

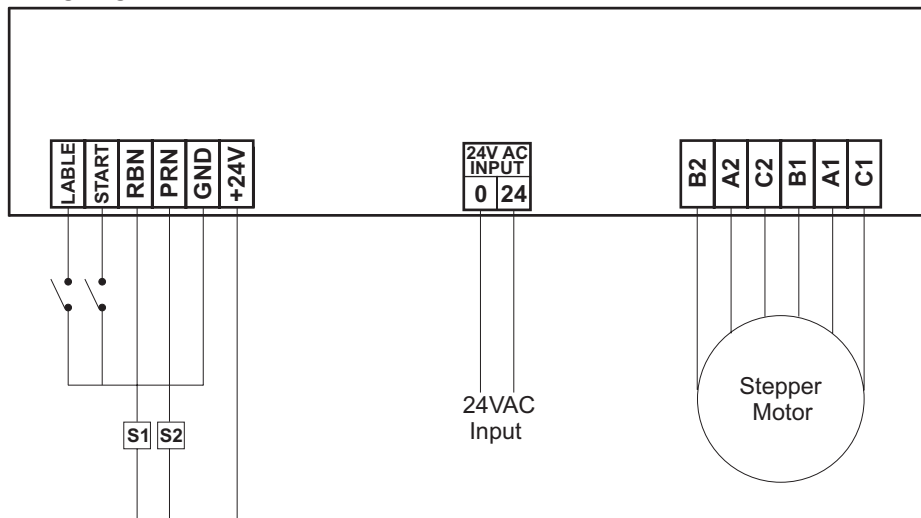
INCH REV : Push this key for run motor in reverse direction in JOG mode only.

F1 : Spare Key.

F2 : Spare Key.

F3 : Spare Key.

### Wiring Diagram



### HOW TO PROGRAM

To enter, press PRG key.  
The upper line of LCD shows PARAMETER Name in upper line and parameter value in lower line.  
The cursor blinks on last significant digit.  
Set required value using INC, DEC, SHIFT keys.  
Use NEXT to save the current parameter & to switch the next parameter.  
Use PREV to switch the previous parameter.  
Use PRG key again to exit.

### List of Programmable Parameter For Program Menu:

| No. | Message On Display | Description   | Parameter Description |                     |         | Operating Password Level        |
|-----|--------------------|---|-----------------------|---------------------|---------|---------------------------------|
|     |                    |   | Range                 | Unit                | Default |                                 |
| 1   | Labl+Gap Len(mm)   | Label Length to run in millimeters.   | 0000-9999             | mm                  | 0200    | Operator Level, Configure Level |
| 2   | Label Sensor       | To enable / disable the label sensor function.  | On / Off              |                     | Off     | Operator Level, Configure Level |
| 3   | Label Window       | When Label Sensor is On, the sensor input is active only for the distance in label window before the label length.  | 0000-9999             | mm                  | 0010    | Operator Level, Configure Level |
| 4   | Totalizer Reset    | When put to On, resets the 6-digit totalizer to 0.  | ON/OFF                | Function            | OFF     | Operator Level, Configure Level |
| 5   | Missing Label      | When Label Sensor is On, the system waits Missing Label no of missing Label before generating Label Sense Error. The counter resets on receipt of Label or on error generation.           | 00-99                 | Number              | 03      | Configure Level                 |
| 6   | Speed Err Count    | When system is running on input configuration 1 to 4 at that time if system receives start input during run time the high-speed error generated. The error is reset by error-reset input. | 00-99                 | Number              | 03      | Configure Level                 |
| 7   | Ratio PPR          | PPR (Pulse Per Revolution) for the motor.   | 0000-9999             | Pulses / Revolution | 0400    | Configure Level                 |
| 8   | Ratio MM           | Total linear travel in ten revolutions of the motor.  | 0000-9999             | millimeter          | 2000    | Configure Level                 |
| 9   | Default Loading    | If set to On, Factory set values of all the parameters get loaded.  | ON/OFF                | Function            | OFF     | Configure Level                 |
| 10  | PWM Width          | Decides the Pulse Width in PWM.   | 0 to 50               | Numbers             | 0012    | Configure Level                 |
| 11  | PWM On Speed       | Decides the Speed at which PWM Width is active.   | 0001to1000            | Hz                  | 0210    | Configure Level                 |
| 12  | Hold Time          | Once the motor is in HOLD Condition, it remains in HOLD mode for the Hold Time. After that the winding outputs are disabled from the drive.   | 0000to1000            | Seconds             | 0005    | Configure Level                 |
| 13  | Half Step          | If set to Off, the motor runs in Full Step Mode : 200 PPR<br>If set to On, the motor runs in Half Step Mode : 400 PPR   | On / Off              | Function            | On      | Configure Level                 |
| 14  | Auto Speed         | If it is ON then stepper motor's speed is set automatically according to set length.  | On / Off              | Function            | On      | Configure Level                 |
| 15  | Input Config       | Decides different configuration for the start / error conditions of the system. Description of each configuration is given below.   | 0000-0005             | Number              | 0005    | Configure Level                 |
| 16  | Cycle Delay Sec    | With Input configuration option 5, time between two consecutive Cycles.   | 00.00 to 10.00        | Second              | 00.10   | Operator Level, Configure Level |
| 17  | Print On Tim Sec   | On completion of motor run, the output for the print operates for Print On Time.  | 00.00 to 10.00        | Second              | 01.00   | Operator Level, Configure Level |
| 18  | Start Delay Sec    | Before start of motor run, the output for the start delay operates for Start delay Time.  | 00.00 to 00.00        | Second              | 01.00   | Operator Level, Configure Level |
| 19  | Ribon On Tim Sec   | This output turns on with the start of cycle. The duration for which the output remains ON is adjustable by ribbon on timer.  | 00.00 to 00.00        | Second              | 01.00   | Operator Level, Configure Level |
| 20  | Run Speed (Hz)     | Maximum speed of the motor.   | 0000- 5000            | Hertz               | 5000    | Operator Level, Configure Level |
| 21  | Start Speed (kHz)  | Starting speed of the motor.  | 0000- 1000            | Hertz               | 0300    | Configure Level                 |
| 22  | Accel. Time Sec    | Time to accelerate the motor from the Start Speed to the Run Speed.   | 00.00-99.99           | Second              | 00.10   | Configure Level                 |
| 23  | End Speed (Hz)     | End speed of the motor.   | 0000- 1000            | Hertz               | 0300    | Configure Level                 |
| 24  | Dccel. Time Sec    | Time to decelerate the motor from the run speed to end Speed.   | 00.00- 99.99          | Second              | 00.10   | Configure Level                 |
| 25  | Run Direction      | Decides the direction of motor. On-Forward Off-Reverse  | On / Off              |                     | Off     | Configure Level                 |
| 26  | Inch Speed (Hz)    | Maximum speed of the motor during Inching.  | 0000- 3000            | Hertz               | 0100    | Operator Level, Configure Level |
| 27  | Photo Speed (Hz)   | Speed of the motor during Mark Window.  | 0000- 1000            | Hertz               | 0300    | Configure Level                 |

Note: To enable configure parameter, turn on the power to the unit keeping NEXT pressed. For enter, Press PRG key once.

### COMMISSIONING TIPS

(1) How to set RATIO MM count as per ROLL DIA METER

- 1.Set PPR = 400, RATIO MM = 2000
- 2.Set length =200 mm
3. Run the machine and measure the actual draw length
- 4.Multiplying Draw length by 10
- 5.Set ratio mm as per multiplied figure

(2) Following parameter are set as fixed values they need not to change in configure level

RATIO PPR = 400  
REMOTE START =OFF  
DEFAULT LOADING =OFF  
REMOTE SPEED =OFF  
PWM ON SPEED = 250  
HOLD TIME = 3  
HALF STEP = ON

(3) Label sensor must be set such that when Label gap appears in front of sensor. The 'MARK' led in DIGISTEP stepper drive should remain on.

(4) Label proxi must be set such that when sensed by object on shaft, the '2" in i/o status menu is seen.