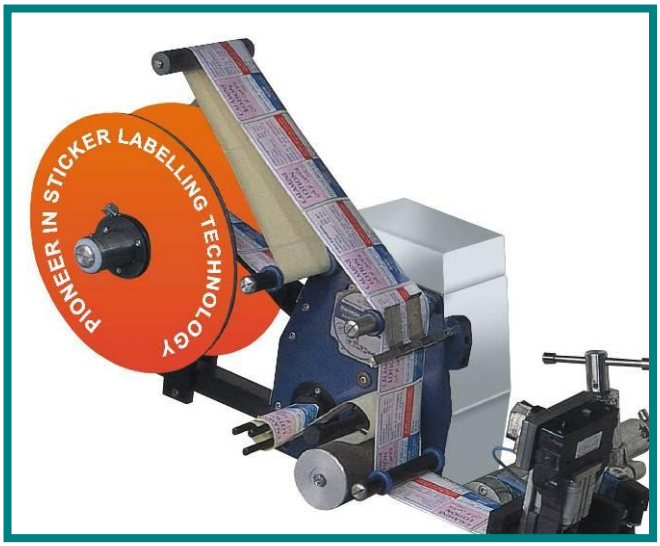
Fixoname

LABELLING SYSTEM

OPERATING INSTRUCTION MANUAL

MODEL: VSC/VLC-DS-R-100
Machine Sr. No.: 19225

CLIENT: M/S. ECO FARMS PTY LTD.



MAHARSHI™

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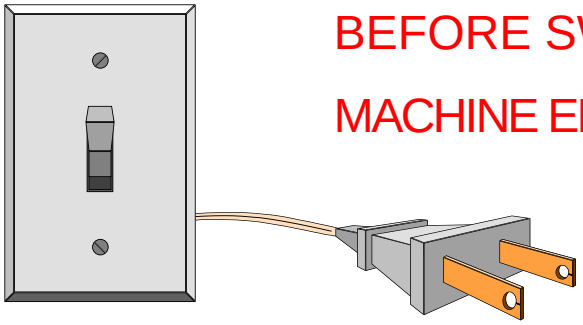
MOST IMPORTANT



BEFORE SWITCHING “ON" THE MACHINE ENSURE THE FOLLOWING

- POWER SUPPLY: 220/240 V AC. SINGLE PHASE STABILIZED (ONLY THROUGH STABILIZED POWER SOURCE, IN CLIENT SCOPE) (ANY SPIKE / ELECTRIC SURGE CAN DAMAGE THE ELECTRONIC PCB / COMPONENTS)

- AIR SUPPLY: 4 TO 6 Kg./cm^2 AT CONSTANT PRESSURES ONLY THRO' FRL. UNIT.
  (OPTIONAL FOR SPOT WRAP AROUND)

- ENSURE TIGHTNESS OF ALL CONNECTORS.

Table of Contents

INTRODUCTION

Characteristic features of Fixoname system.

- Long wearing, no coupler/break system.
- Compact, ease of operation based on flying modular design.
- Easy to operate.
- Precise operation of dispenser & printer due to Microprocessor panel.

The modular concept allows homogeneous fastening of the peripheral devices on one module-bar. The respective electronic control is integrated into the control panel. The drive for each peripheral device ensures via the bus-system which is placed in modular-bar of this system.

The operating elements for dispensing speed, pre-dispensing adjusting of the optical label scanning as well as the counting facility with the display are placed on microprocessor. All parts are corrosion resisting and the traction roller of the traction unit is furnished with a special coating to assure a lasting slip-free transmission of the turning movement on to the carrier paper of the label strip. The winding on effort of the winding-on spindle as well as the break force of the paper can be adjusted on the traction unit from the outside.

After starting the traction unit (power ON) the traction roller in a still position can easily be turned by hand until the first labels have been dispensed. This simplifies setting the dispenser unit.

INSTALLATION INSTRUCTION

- Open up the packing & shift the machine to the desired position.
- Level the machine with four Nos. adjusting legs.
- No wires in the power connections should be connected loosely, spike in the supply or sparking on the wires connecting to the instrument can cause heavy radio frequency interference's resulting in malfunctioning of the instrument.
- **POWER SUPPLY: PROVIDE 220/240V AC. SIGNLE PHASE STABILIZED POWER SUPPLY (ONLY THROUGH STABILIZED POWER SOURCE IN CLIENT SCOPE; SUGGESTED 1 KVA IN CASE OF MACHINE WITH SINGLE DISPENSER. & 3 KVA FOR DOUBLE SIDE MACHINE WITH TWO DISPENSER).**
- Electrical environment should be free from heavy electromagnetic fields, radio frequency interference's, sparking etc.
- **AIR SUPPLY: IN CASE WHO HAS ELECTRO-PNEUMATIC PRINTER, WILL HAVE TO PROVIDE COMPRESSED AIR AT 4-6 Kg/cm² AT CONSTANT PRESSURE THRO' FRL UNIT.**
- After threading of labelling strip as instruction given on page no. 10, turn the Mains "ON" on Microprocessor Operating panel.
- Set the programming of Microprocessor as per instruction given on page no. 18 under section MICRO PROCESSOR
- Start the product conveyor and load the bottle/containers. There is a provision of Feed worm assy. for orient and create a space between two oval/round bottle, which is travel to labelling station i.e. at release plate before pressure roller.

- This Machine is supplied with One Set of Feed worm as a change part for oval bottle as per client requirement.
- Now oriented bottle will hold under the top stabilizing belt and goes to labelling station.
- At labelling station set the product sensor & label sensor in such a way that it sense the product and give a signal to dispenser for dispensing a label. At the same time label sensor sense the gap between two labels & it will give a signal to stop the dispenser. Same time product should pick up the label.
- For setting, pick up of the label, please adjust the position of release edge, Product sensor & label sensor if required.
- After release of label and pick up with the container due to adhesiveness, it will enter in between two nos. of sponge pressure roller, where more pressure applies for fix the label on container. There is also soft label pressing nylon brush provided on release plate assy.
- There is also Motorized Spot Wrap Around system provided with pneumatically operated Bottle supporting rollers, for Round Bottle Wrap around Labelling. Round bottle with label will hold between two rollers, and motorized spot wrap around rubber roller will rotate the bottle for wrap the label on bottle periphery.
- Then it will transfer to discharge end of product conveyor. **Please change spring loaded sponge pressure roller instead of spot wrap around roller assy. and stop the air supply, when front/back labelling of flat bottle is in process.**

- You can adjust the on-line speed of labeling with the help of keypad of Microprocessor.
- ***Above settings will require some practical experience because it entirely depends upon product shape & size, both are independent & variable from client to client & product to product.***

LABELLING ACCURACY

- The first essential factor necessary to achieve labelling accuracy on any container is to ensure that the labelling machine itself is correctly set up and well maintained.

- Once the container is selected for labelling, it is necessary to ensure that it does not have a double curvature on the face to be labeled, i.e. Curvature in both the X and Y direction (If a label cannot simply be applied by hand without pressure having to be exerted on any particular area to remove a crease or blister, then no labelling machine will do the job effectively).

- Where a container is made of a soft plastic, e.g. polythene, then undoubtedly the width of the container will vary with variations in fill level, tightness of cap, etc. It must be appreciated that this variation in width may well affect the orientation of the container through the labeler and, hence, the labelling accuracy.

- For the best achievement of labelling accuracy, all dimensions of a container should have a tight tolerance, and not vary with fill levels, any top pressure applied to the container, or soft spots in the container walls in the case of plastics.

- Containers should be free from base distortion and all caps should be correctly and firmly fitted. A rogue container can affect the labelling accuracy on adjacent containers as it passes through the machine.

- It is desirable that caps used on containers have flat tops. This gives a larger area upon which to hold the container with the stabilizing belt as it passes through the machine. This helps to reduce the chance of the container twisting whilst under the stabilizing belt.

- Flat containers, where the lengths to width dimensions are similar, can be very difficult to hold in correct orientation in a machine, and labelling accuracy can suffer. The Flat container acts very similar to a round one, where a rolling action can take place in the feed worm.

- Tall, small based and especially soft containers can be particularly difficult to label accurately. Where tall labels are also involved, the problem becomes increasingly difficult. The containers often tend to lean forwards or backwards of their own volition and the action of the stabilizing belt on the machine can exaggerate this situation as they enter the labeler.

LABELLING PROBLEMS

Problems may occur for the following reasons

1. Poor adhesive on the labels.
2. Incorrect storage of labels.
3. Condensation or spillage on containers.
4. Label adhesive too strong.
5. Badly die cut labels.
6. Poor container specifications.

1. POOR ADHESIVE

Occasionally, batches of sub-standard label laminate may be encountered. This may be caused through ageing, incompatibility between container and adhesive or low strength adhesive. A simple but effective test of the adhesive may be carried out as follows.

Peel the label off the web and pass it gently over a container, allowing it to touch. The label should have a tendency of stick to the container without have to apply pressure.

2. INCORRECT STORAGE

Incorrect storage of labels has the effect of "killing" the adhesive causing labels to peel off the container. Always remove label reels from machines and store over weekend or holiday periods. Label reels should also be stored overnight unless the factory conditions are maintained at working temperature.

If the following storage conditions are maintained, for both self-adhesive label materials and converted rolls of self-adhesive labels, a storage life of 2 years can be expected.

- Storage at an Ambient/Below Ambient temperature & relative humidity 50-55%.
- Store in original packing.
- Store away from direct sunlight.
- Rotate stocks so that the oldest is used first.
- Store reels of printed labels horizontally, not vertically.
- Do not hang reels of printed labels on pegs or stack them so that the inner core ID is distorted.
- Repack partly used reels of printed labels in their original packaging.
- If using a verifier / rewinding machine, ensure that the tension is not too tight as this can cause adhesive bleed.

3. CONDENSATION OR SPILT PRODUCT

Labelling problems may occur where liquids are permitted to contaminate the areas of the container to be labeled. Damp containers may be the result of spilt product in the filling process, caps not being correctly tightened, or condensation. Condensation is caused by moving the containers from a cold room to a warm one, or when the product in the container is colder than ambient conditions. Where possible, such containers should be avoided, or sufficient time left for the condensation to evaporate.

4. ADHESIVES TOO STRONG

This is an extremely unlikely event but, should it be suspected, it may be affirmed by simply drawing the web around the beak, by hand. If the labels do not peel off cleanly but tend to pass around the beak then they will be no good for automatic labelling.

5. BADLY DIE CUT LABELS

This problem is frequently associated with web breakage. If badly die cut labels are suspected, examine the web around the breakage. If a fine line is visible corresponding to the die cut, then the web has been die cut too deep. Labels showing such symptoms should be returned to the supplier.

6. POOR CONTAINER SPECIFICATION

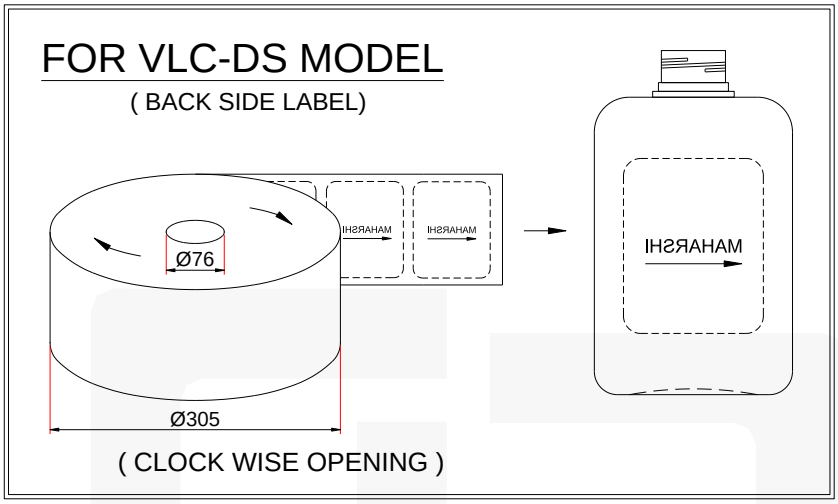
Once a container has been selected for labelling, it is necessary to ensure that it does not have double curvature on the face to be labeled, i.e. curvature in both X and Y directions. (If a label cannot simply be applied by hand without pressure having to be exerted to any particular area to remove a crease or blister, then no labelling machine will be capable of doing the job effectively).

It is noted that the accuracy of the labelling units is very largely dependent on the tolerances of the containers. Flexible containers may well be affected by the fill level and so may be particularly prone to inaccurate labelling. For best results, all container dimensions should have a tight tolerance, and should not vary with fill levels or soft spots in the container walls in the case of plastics.

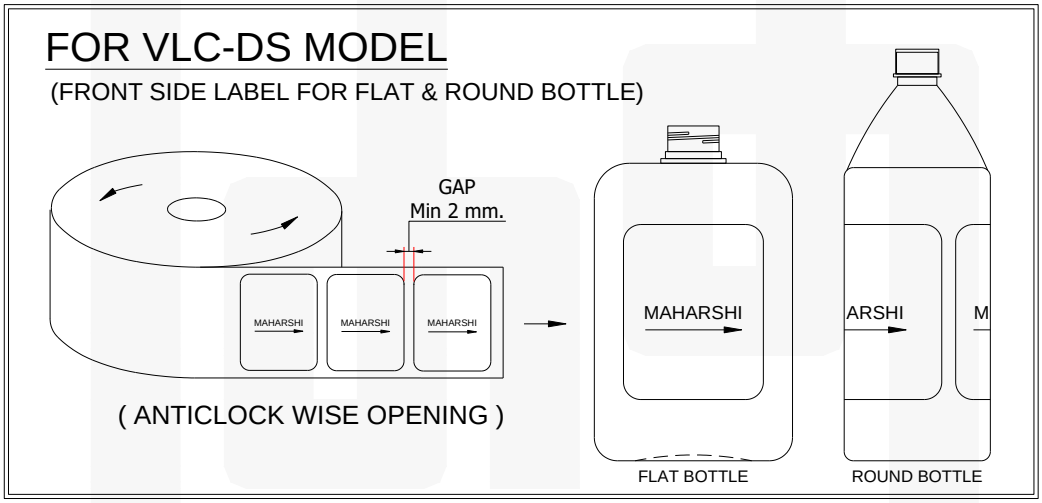
It is desirable that caps used on containers have flat tops and are firmly tightened down. This gives a greater surface area with which the stabilizing belt can "grip" the container and so reduces the change of the container twisting whilst under the stabilizing belt.

LABEL ROLL SPECIFICATION & WINDING DIRECTION

FOR VSC/VLC-DS (FOR FLAT / OVAL / ROUND BOTTLES)



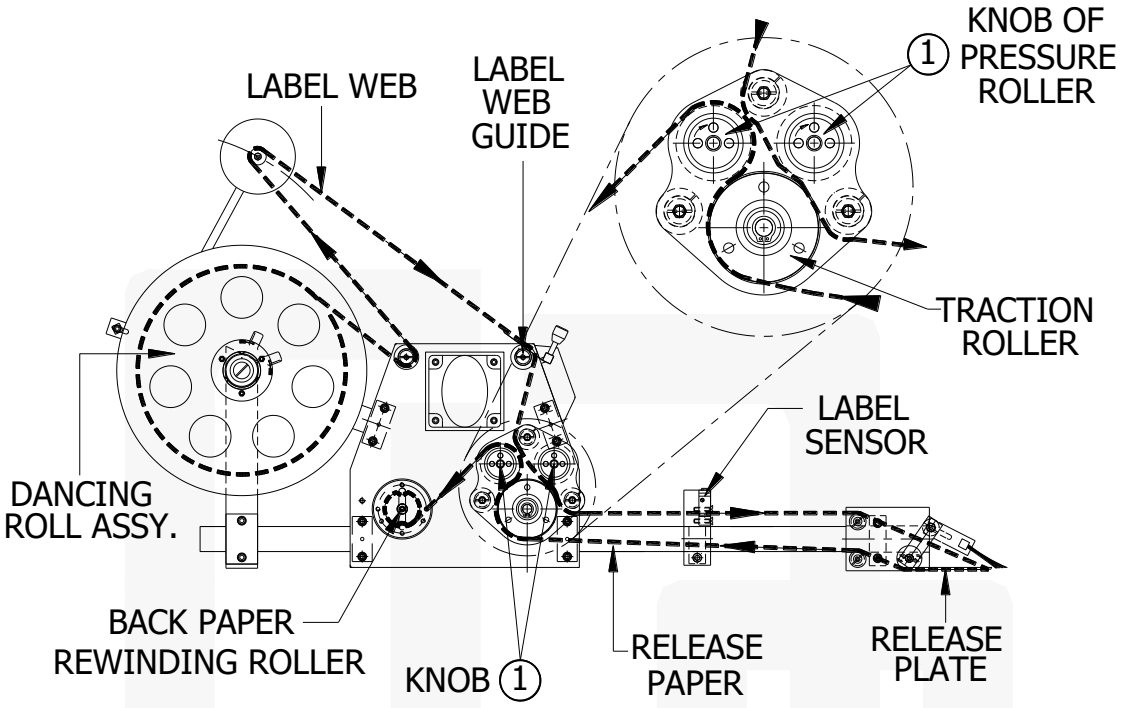
PRODUCT FLOW



BASE (RELEASE) PAPER	SILICON COATED GLASSINE 60-65 GSM.
LABEL PAPER	80-85 GSM.
REEL INNER (CORE) DIAMETER	76 mm.
REEL OUTER DIAMETER	305 mm.
MIN. GAP BETWEEN LABELS	Minimum - 2 mm.
WIDTH OF BASE PAPER	LABEL WIDTH + 1.5 – 2 mm.
WIDTH (VERTICAL HEIGHT) OF LABEL	**08 mm. – 150 mm.**
LENGTH OF LABEL	10 mm. – 300 mm.
WEIGHT OF LABEL REEL	5 kg. MAX.

ADJUST DISPENSER MECHANICAL

THREADING OF THE LABEL STRIP



Thread label strip according to above illustration up to release edge and pull-forward approx. 1 Mt. Detach labels from the carrier strip where it has been pulled forward. Then by turning knob (1) open counter rubber pressure roller fold down carrier paper (release paper) over the release edge (dispensing edge) and finish threading the label strip according to above illustration at back rewinding roller, close counter pressure roller. Adjust the lateral blue nylon label web guides to leave a space of 0.5 mm, between them and the label strip.

- For seating of height wise label position on bottle, you can set it by help of nylon label web guide.

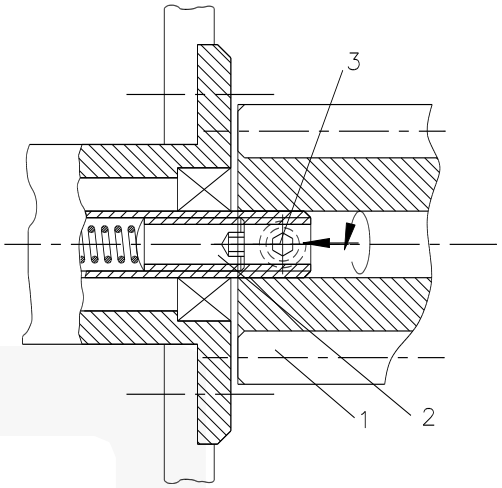
- If you not achieved proper position by nylon guide, you can set the complete dispenser assy. by help of handle on pillar bracket assy.

ADJUST COUPLER POWER OF WINDING-ON SPINDLE

The coupler power of the winding - on spindle is adjust at the factory. Any necessary adjustments are to be made as follows

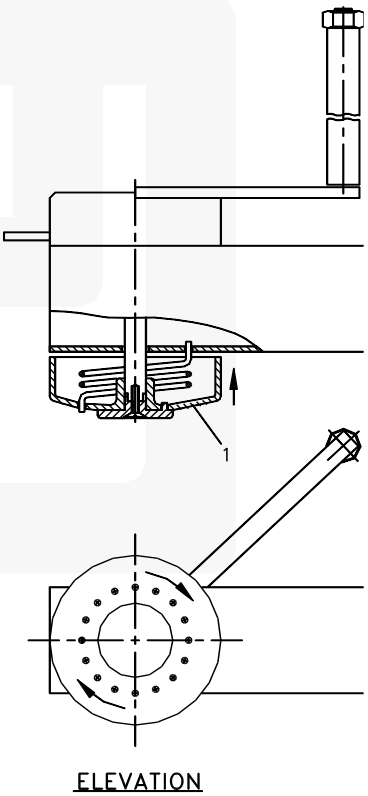
Take off winding-on spindle (1) after loosing 3/16" BSW screw (3)

Screw IN 5/16" BSW (2)-harder coupler Screw OUT 5/16" BSW-softer coupler respectively.

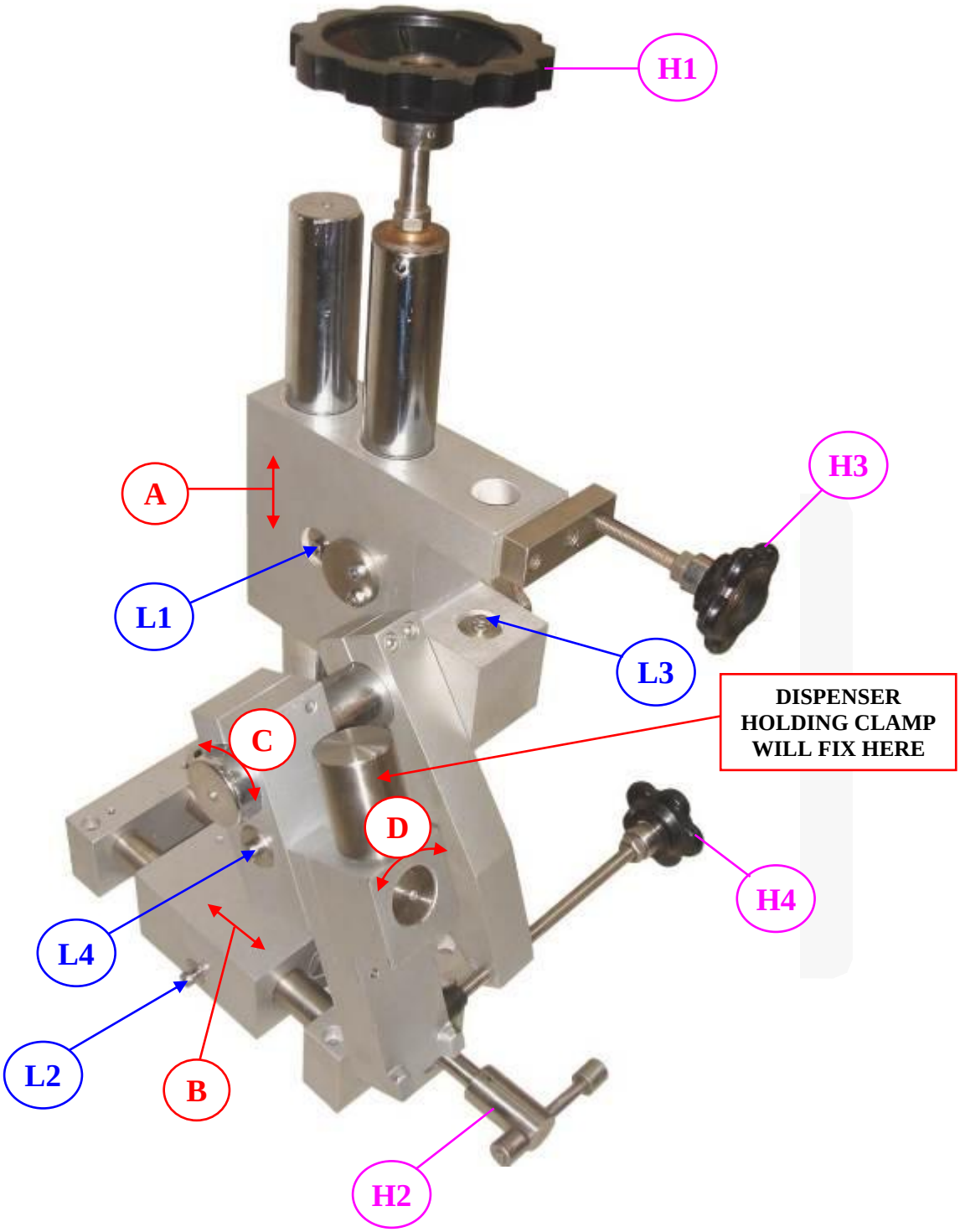


SET DANCING ROLL (MEDIUM UNWINDER)

The tilt of the dancing roll altered to suit support pipe. The strength of the pressure of the dancing roll can be altered, press knob (1) in the direction of arrow, turn until right resilience is reached.



SET LABEL POSITION ON PRODUCT



SET THE LABEL RELEASE POSITION ON PRODUCT

TAG No.	DESCRIPTION
H1, H2, H3 & H4	ADJUSTMENT HANDLE
L1, L2, L3 & L4	POSITION LOCKS WITH ALLEN CAP SCREW
A	UP / DOWN MOVEMENT
B	HORIZONTAL MOVEMENT
C	ANGULAR ADJUSTMENT
D	INCLINED ADJUSTMENT

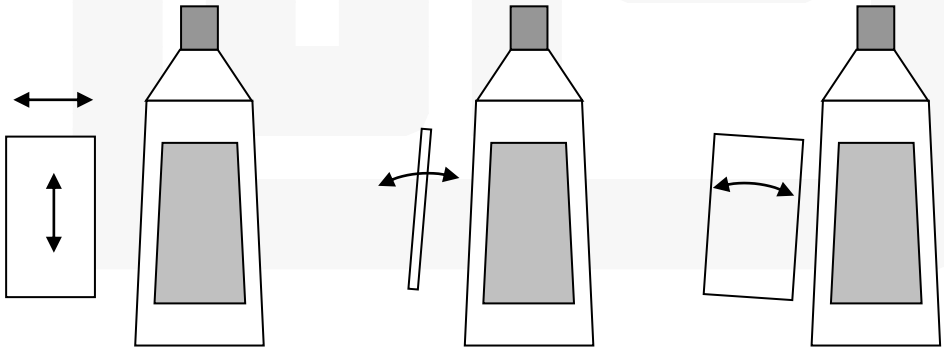
Note: For any movement, first release relevant lock & then rotate handle.

1. For up/down adjustment (A) of label on product, rotate handle H1, clockwise / anticlockwise as required & then lock the position with L1.

2. For horizontal movement (B) of dispenser with reference to product, rotate handle H2, clockwise / anticlockwise as required & then lock the position with L2.

3. For adjustment of Angular position (C) of release plate with complete dispenser with reference to product, rotate handle H3, clockwise / anticlockwise as required & then lock the position with L3.

4. For adjustment of Inclined position (D) of release plate with complete dispenser with reference to product, rotate handle H4, clockwise / anticlockwise as required & then lock the position with L4.

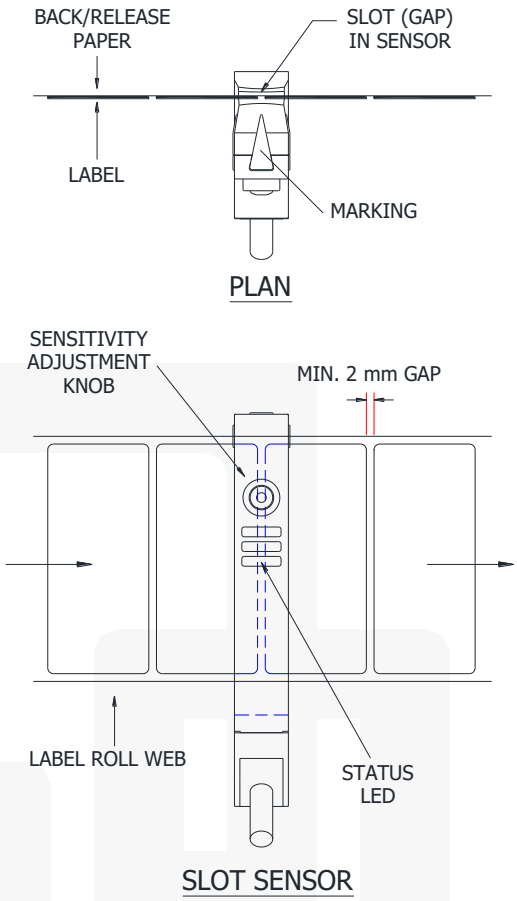


A & B C D

OPTICAL LABEL SCANNING (LABEL SENSOR)

The optical forked label scanner with 3 mm gap is built into the special molded housing mounted on suitable bracket to fix on aluminum modular rail (Bar) between potential peripheral devices (e.g. Printer & Label dispensing edges/release plate or on the dispenser.)

- This slot sensor has a minimum gap for better performance & having transmitter & receiver in molded housing.
- Intensity of the light can be set with the help of Knob on the sensor.



Settings:

Switch on traction unit (power ON) mains switch lights glow up. The Traction roller (roller with special coating) can easily be turned by Hand until the first few labels have been dispensed.

LED lamp on sensor lights up, when main switch is ON.

Bring label interval (label gap) right in the slot Turn Sensitivity adjustment knob until LED Lamp on sensor goes ON.

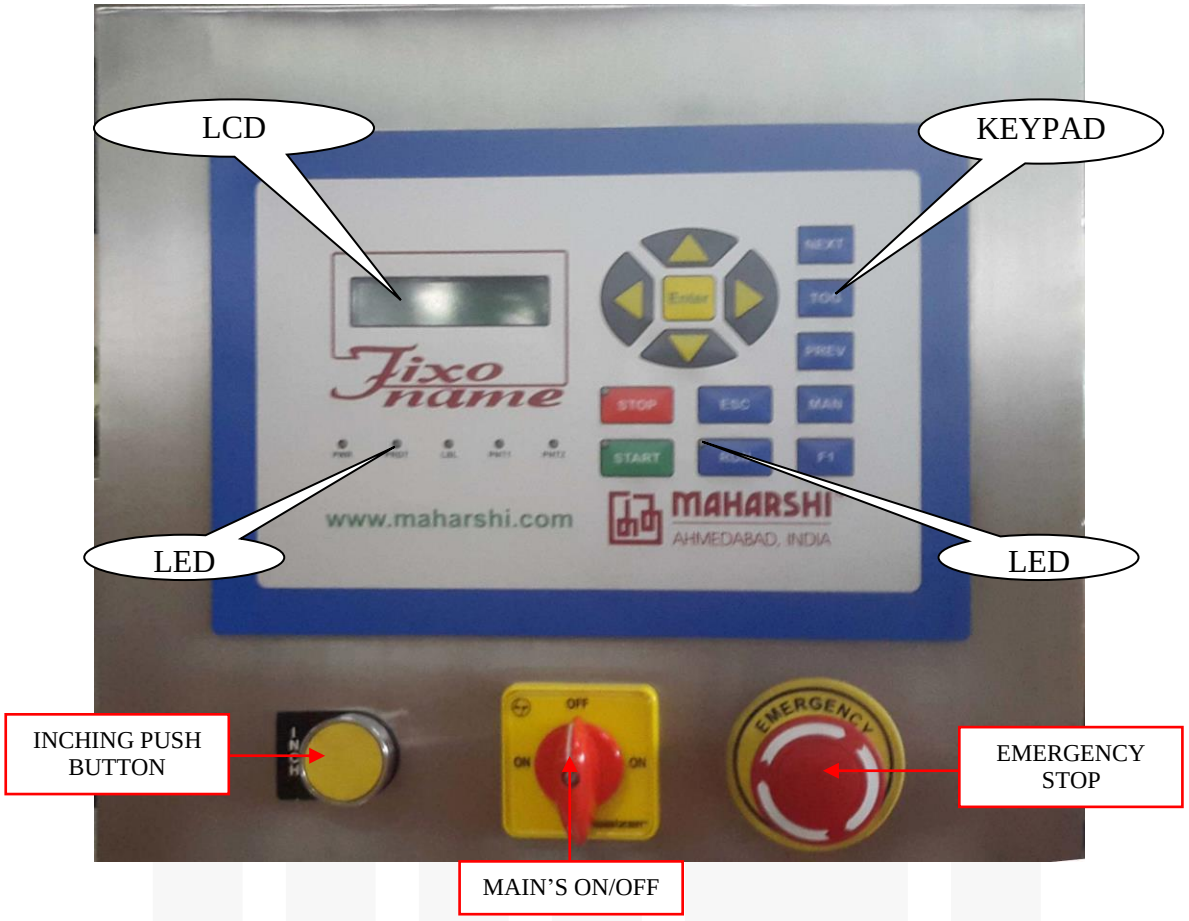
Bring labels right in the slot, the LED lamp on the sensor goes OFF.

So in general, when label gap is in the slot. LED should be ON & set the Sensitivity adjustment knob in such a way that when the label is in the slot, LED should be OFF. This procedure can be done on a long label strip at diff. Places & can be set. Also please note that fine tuning will be done from label sensitivity Screw. Generally at the time of dispatch, we have already done this setting with labels.

STATU LED INDICATIOS

1) ON Led-Green = Ready
2) OUT Led-Yellow = Switching Output
3) WARN Led-Red = Warning Output

MICRO PROCESSOR – MP-F (DS)



MICRO PROCESSOR-MP-F (DS)

Led Indication

- PWR : Power Supply OK.
- PRDT : Product sensor signal OK.
- LBL : Label sensor signal OK.
- PNT1 : Printer 1 time present.
- PNT2 : Printer 2 time present.

Small Servo Motor, E-Prom No.: 139-1

1) Setting parameters

The parameters must be set (programmed) whenever a different type of label and / or product (bottle) is to be used. The parameters will be needed to be programmed if the positions of the sensors (product sensor and / or label sensor) are changed. They may be required to be programmed in case other mechanical settings are altered.

Press ENT key. The unit enters in to data entry mode. First, label speed will be displayed. Program the desired value using the arrow keys. The up arrow key increases the digit on the cursor; the down arrow key decreases the digit. The left arrow key moves the cursor to digit on left; the right arrow key moves the cursor to right.

> When the desired value is set on the display, press ENT. The value will be saved into memory. The next parameter will be displayed.

> The next parameter is pre dispensing. Program the desired value using the arrow keys; then press ENT.

> Similarly, program the printer 1 time, printer 2 time, waiting time after product sensed and label length.

> The controller will then ask a question “Reset Total?” The default answer is no; hence, “N” will be displayed. If you wish to reset the total labels to 0000, press TOG key. The answer will change from “N” to “Y”. Then press ENT. (If you want to retain the total labels, keep the answer as “N” and press ENT.) The total labels will be displayed when the unit is in ‘RUN’ mode.

> Now that all the parameters are programmed, the unit will go back to the first parameter, viz. label speed. You can repeat the above process (of programming parameters) again. If all the parameters are properly programmed, press ESC key. The unit comes out of the ‘data entry’ mode. Fixoname will be displayed.

2) Running the labels

When the unit is in 'normal' mode, i.e. Fixoname is being displayed, press RUN key. The total labels will be displayed in first line of display; the rate in labels per minute will be displayed in the second line. The unit will sense the product sensor & the label sensor and switch on & switch off the motor accordingly.

Press **ESC** key to stop running & return to 'normal' mode.

Fixoname will be displayed.

3) Changing the label speed on-line

When in 'RUN' mode, if you press (↑) up arrow key, the label speed will increase by 1 meter / min; pressing the key on the right of the up arrow will increase the speed by 0.1 m/m; pressing the key on left increase by 10 m/m. Similarly, pressing (↓) down arrow key decrease the speed by 1 m/m; keys on its left & right decrease by 10 & 0.1 m/m respectively. Pressing the ENT key displays the current speed without altering it.

4) Handling error conditions

If the driver unit encounters a fault condition, it indicates this to the controller unit. The controller unit will display "drive gave alarm; check, then run". Then switch off the driver unit; wait until its led becomes off, then switch it on again. Then press run key. The unit is now ready to run again. If the error keeps repeating frequently, stop running the machine and consult us.

Please Read
(07.2) "UNDERSTANDING OF PARAMETER SETTINGS IN PLC"
Before starting programming (data entry)

PROGRAMMING METHOD-MP-F (DS)

1 MAINS POWER "ON"

→ FIXONAME
MAHARSHI UDYOG

2 PRESS [ENT] KEY

NOTE :
Min: 002.0 M/Min.
Max: 060.0 M/Min.

→ LABEL SPEED
040.0 M. /Min. → 1

3 PRESS [ENT] KEY

PRODUCT SENSOR DELAY TIME

→ PROD DELAY
000.0 MM → 1

4 PRESS [ENT] KEY

PRESS 'TOG' KEY FOR 'Y' OR 'N'
→1 = INDICATE FRONT LABEL PARAMETER, IF YOU SET 'N' THEN FRONT LABEL IS NOT APPLYING.

→ MAKE THIS PLC
ACTIVE ? Y → 1

5 PRESS [ENT] KEY

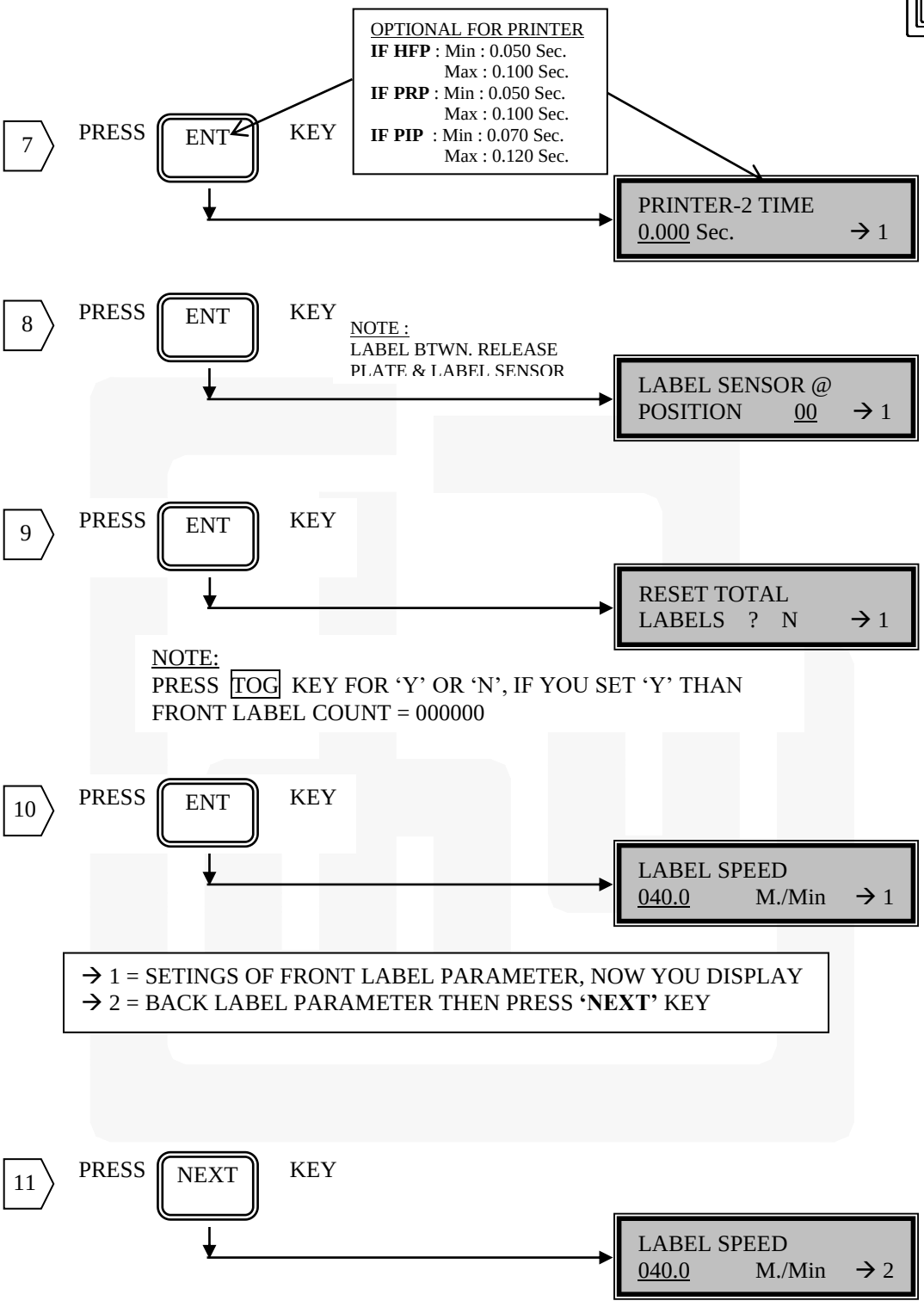
NOTE :
ACTUAL LENGTH + GAP + 2 mm.

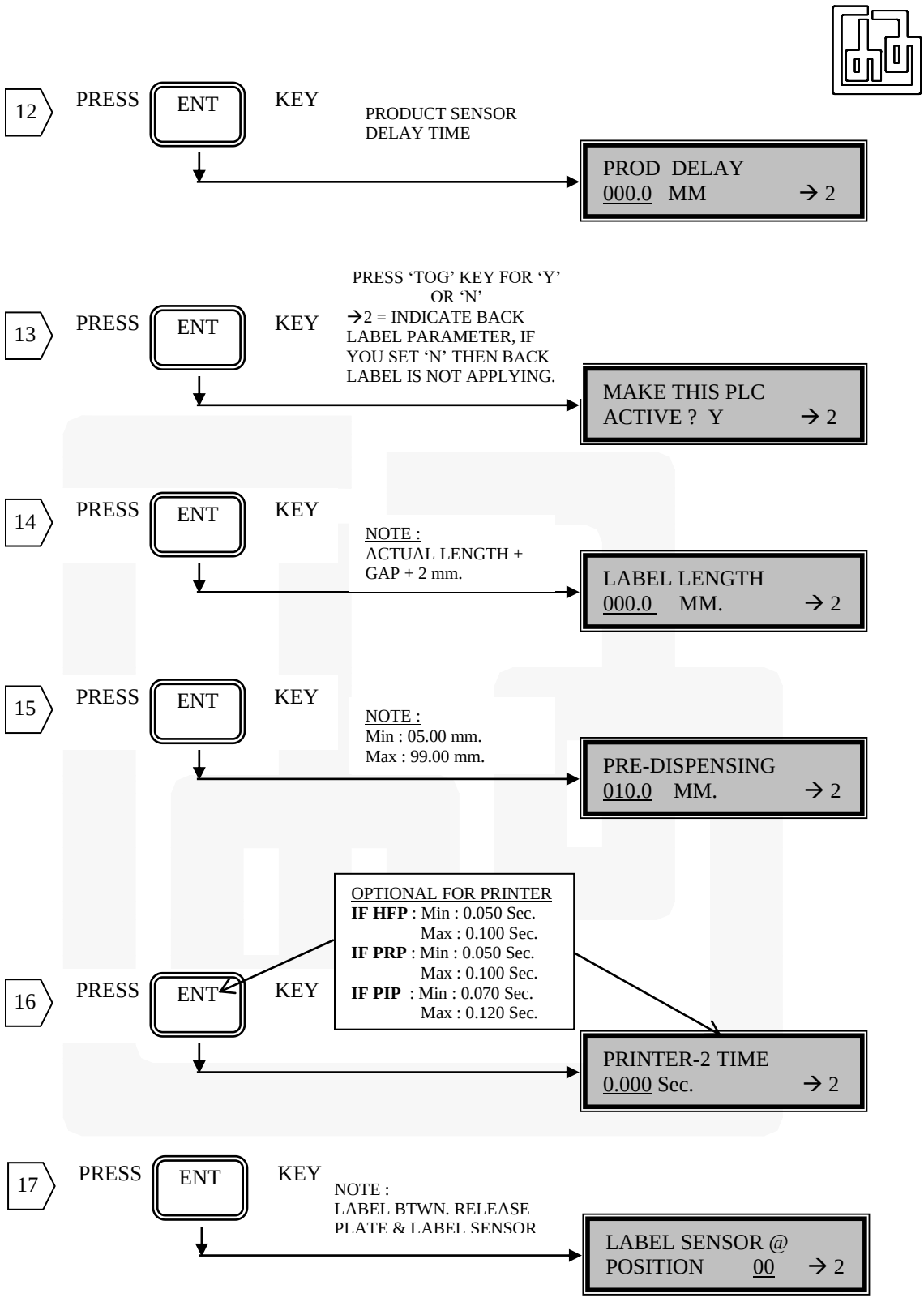
→ LABEL LENGTH
000.0 MM. → 1

6 PRESS [ENT] KEY

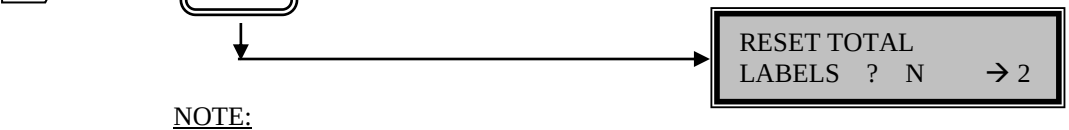
NOTE :
Min : 05.00 mm.
Max : 99.00 mm.

→ PRE-DISPENSING
010.0 MM. → 1


OPTIONAL FOR PRINTER
IF HFP : Min : 0.050 Sec.
Max : 0.100 Sec.
IF PRP : Min : 0.050 Sec.
Max : 0.100 Sec.
IF PIP : Min : 0.070 Sec.
Max : 0.120 Sec.
7
PRESS
ENT
KEY
PRINTER-2 TIME
0.000 Sec. → 1
8
PRESS
ENT
KEY
NOTE :
LABEL BTWN. RELEASE
PLATE & LABEL SENSOR
LABEL SENSOR @
POSITION 00 → 1
9
PRESS
ENT
KEY
RESET TOTAL
LABELS ? N → 1
NOTE:
PRESS TOG KEY FOR 'Y' OR 'N', IF YOU SET 'Y' THAN
FRONT LABEL COUNT = 000000
10
PRESS
ENT
KEY
LABEL SPEED
040.0 M./Min → 1
→ 1 = SETINGS OF FRONT LABEL PARAMETER, NOW YOU DISPLAY
→ 2 = BACK LABEL PARAMETER THEN PRESS 'NEXT' KEY
11
PRESS
NEXT
KEY
LABEL SPEED
040.0 M./Min → 2

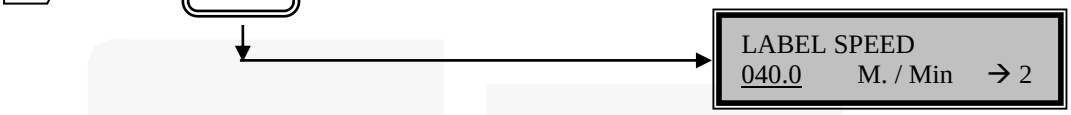

12
PRESS
ENT
KEY
PRODUCT SENSOR DELAY TIME
PROD DELAY
000.0 MM → 2
13
PRESS
ENT
KEY
PRESS 'TOG' KEY FOR 'Y' OR 'N'
→2 = INDICATE BACK LABEL PARAMETER, IF YOU SET 'N' THEN BACK LABEL IS NOT APPLYING.
MAKE THIS PLC ACTIVE ? Y → 2
14
PRESS
ENT
KEY
NOTE :
ACTUAL LENGTH + GAP + 2 mm.
LABEL LENGTH
000.0 MM. → 2
15
PRESS
ENT
KEY
NOTE :
Min : 05.00 mm.
Max : 99.00 mm.
PRE-DISPENSING
010.0 MM. → 2
OPTIONAL FOR PRINTER
IF HFP : Min : 0.050 Sec.
Max : 0.100 Sec.
IF PRP : Min : 0.050 Sec.
Max : 0.100 Sec.
IF PIP : Min : 0.070 Sec.
Max : 0.120 Sec.
16
PRESS
ENT
KEY
PRINTER-2 TIME
0.000 Sec. → 2
17
PRESS
ENT
KEY
NOTE :
LABEL BTWN. RELEASE PLATE & LABEL SENSOR
LABEL SENSOR @
POSITION 00 → 2

18 PRESS [ENT] KEY

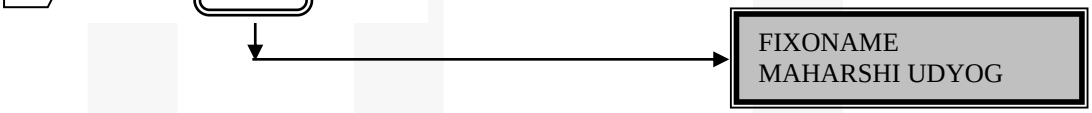


NOTE:
PRESS [TOG] KEY FOR 'Y' OR 'N', IF YOU SET 'Y' THAN
BACK LABEL COUNT = 000000

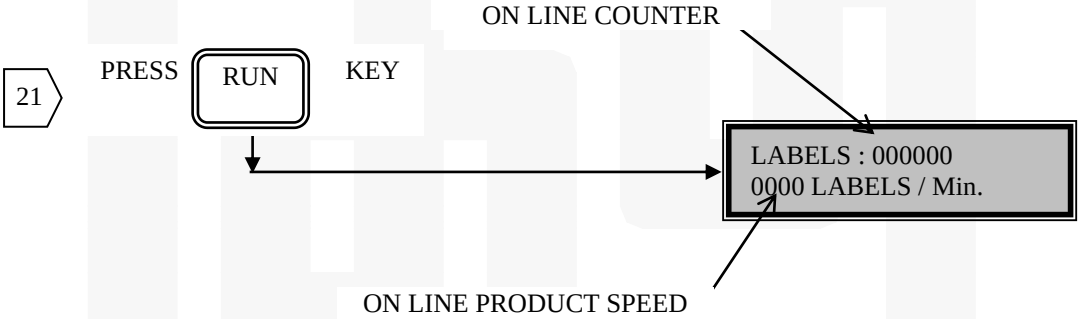
19 PRESS [ENT] KEY



20 PRESS [ESC] KEY

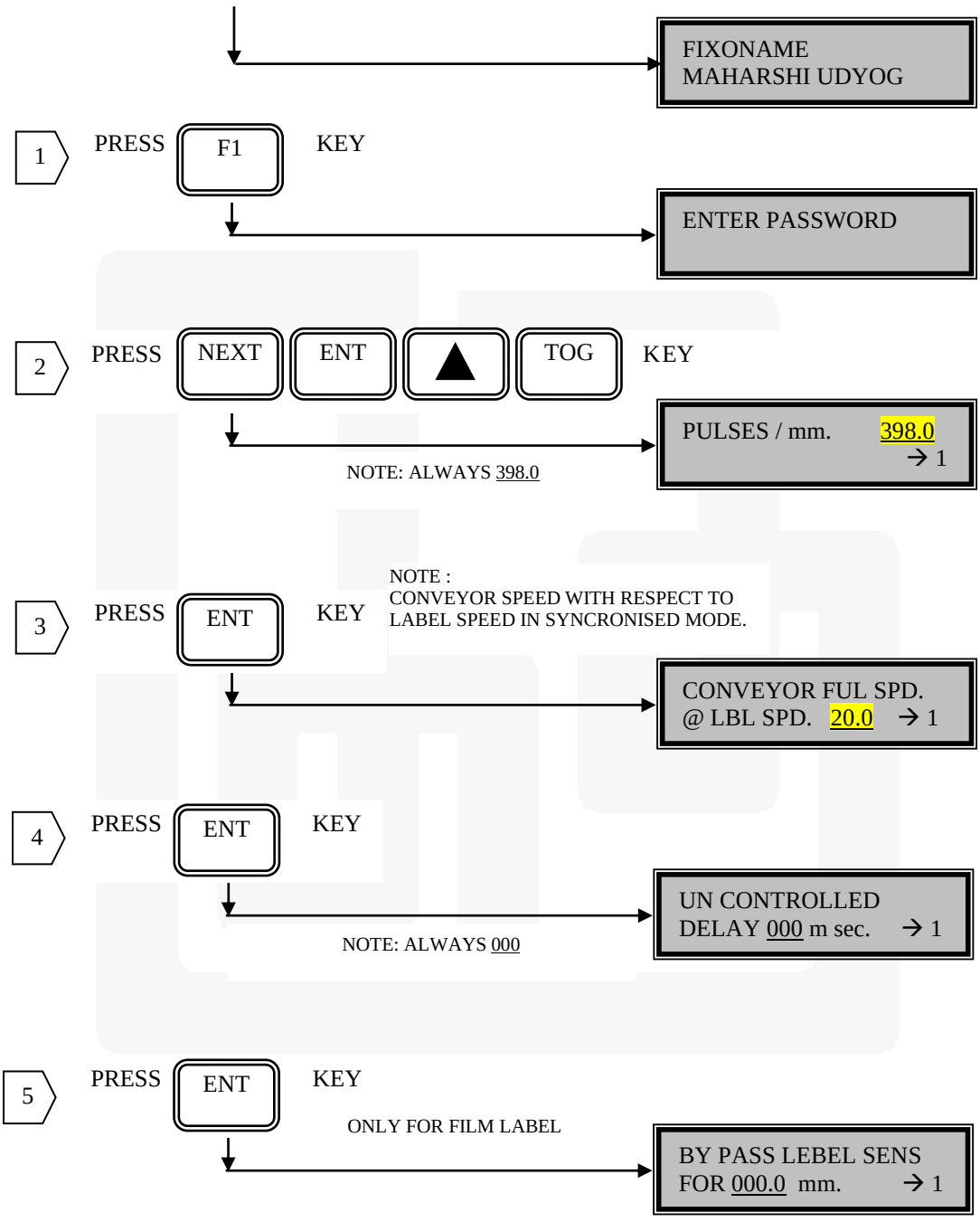


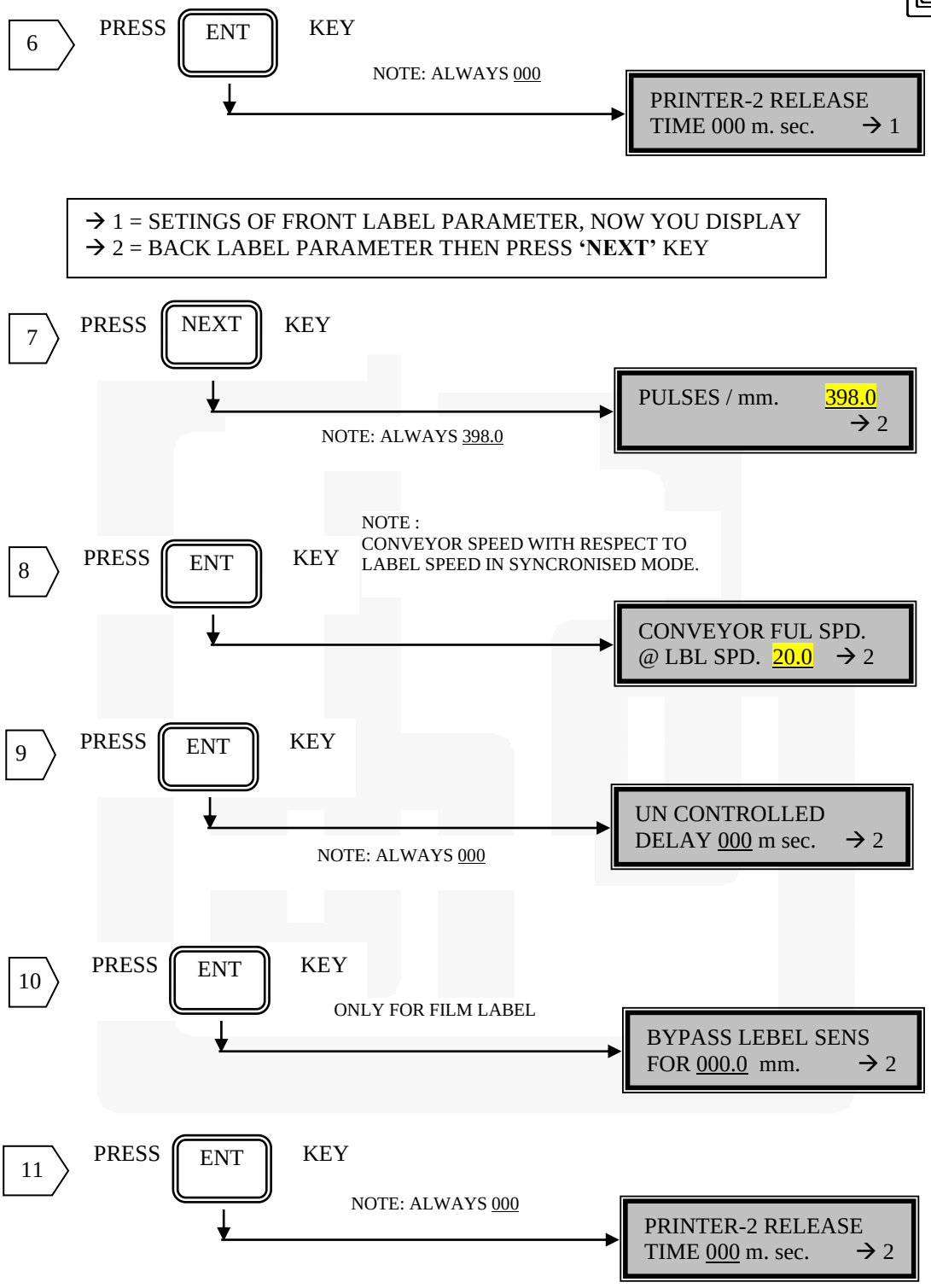
21 PRESS [RUN] KEY

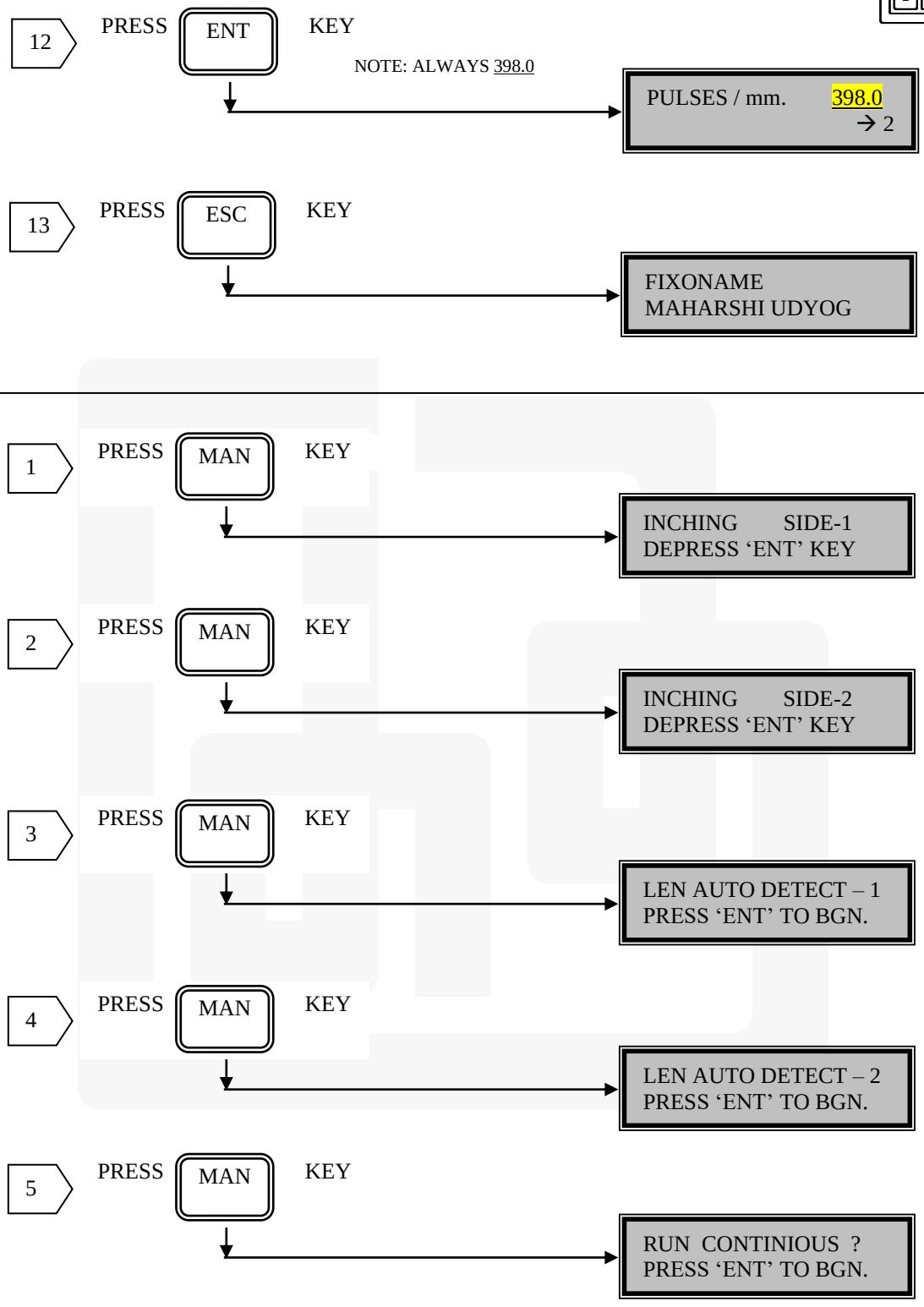


HIDDEN DATA ENTRY

MAINS POWER "ON"




6
PRESS
ENT
KEY
NOTE: ALWAYS 000
PRINTER-2 RELEASE
TIME 000 m. sec. → 1
→ 1 = SETINGS OF FRONT LABEL PARAMETER, NOW YOU DISPLAY
→ 2 = BACK LABEL PARAMETER THEN PRESS 'NEXT' KEY
7
PRESS
NEXT
KEY
PULSES / mm. 398.0
→ 2
NOTE: ALWAYS 398.0
8
PRESS
ENT
KEY
NOTE :
CONVEYOR SPEED WITH RESPECT TO
LABEL SPEED IN SYNCRONISED MODE.
CONVEYOR FUL SPD.
@ LBL SPD. 20.0 → 2
9
PRESS
ENT
KEY
UN CONTROLLED
DELAY 000 m sec. → 2
NOTE: ALWAYS 000
10
PRESS
ENT
KEY
ONLY FOR FILM LABEL
BYPASS LEBEL SENS
FOR 000.0 mm. → 2
11
PRESS
ENT
KEY
NOTE: ALWAYS 000
PRINTER-2 RELEASE
TIME 000 m. sec. → 2

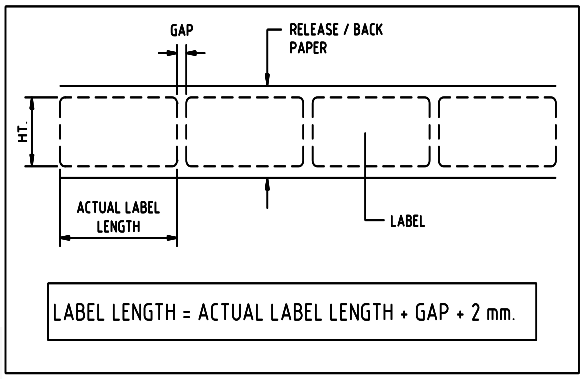


Note: Program Data may Change Client to Client, it depends on size of the container & label.

UNDERSTANDING OF PARAMETER SETTINGS IN PLC.

LABEL LENGTH

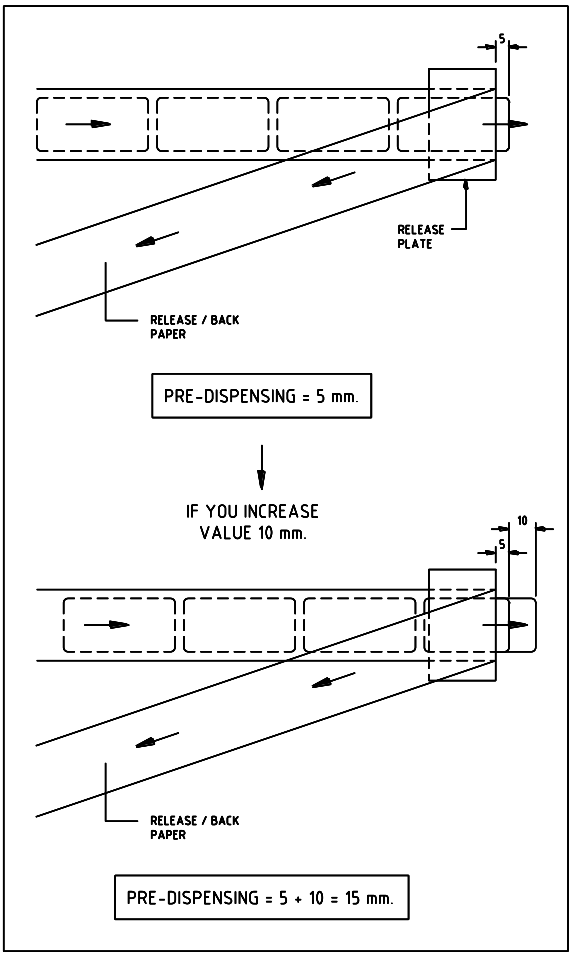
- To avoid double label dispensing at a time, enter proper label length value.
- Proper label length value feeding will help you incase of label missing in roll & will ensure label release at each bottle.



PRE-DISPENSING

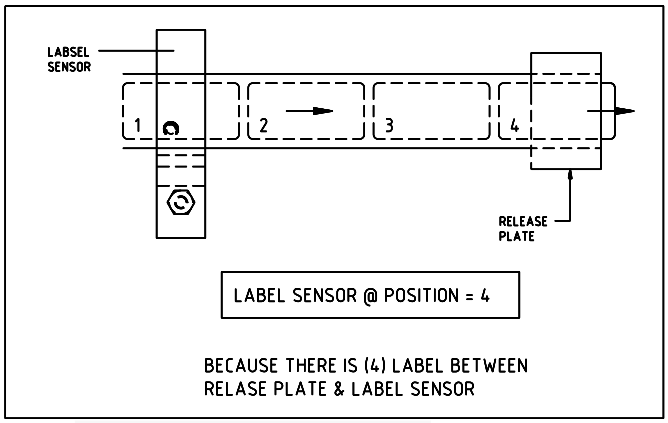
As shown in diagram, it is a label length release in advance at the edge of release plate before a dispensing.

- It can be even change by shifting position of label sensor, or by changing the value in programmer.
- Always make sure while entering pre-dispensing value, it should be Min. 5 mm lesser than label length or between 5 to 50 mm.



LABEL SENSOR @ POSITION

Advantage of entering this valve is no bottle will pass without labelling.



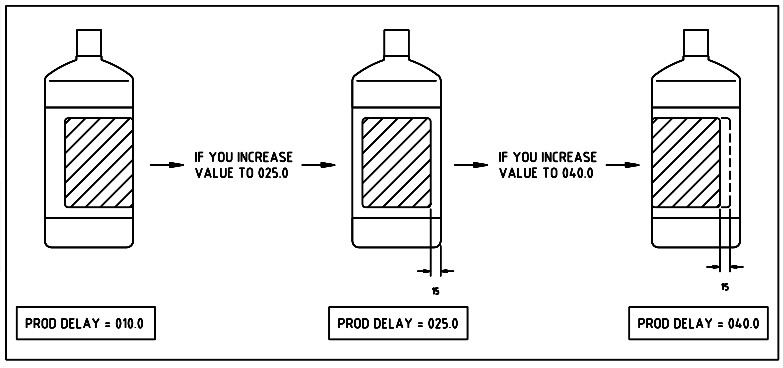
- It is a No. of labels between label sensor & release edge as per shown in diagram.
- Dispensing motor automatically advances due to this value feeding, whenever there is a missing label in roll.

PULSES

Pulses should be always as per SET VALUE because it is decided as gearing of dispenser. If it is changed, dispensing motor may dispense more or less label length.

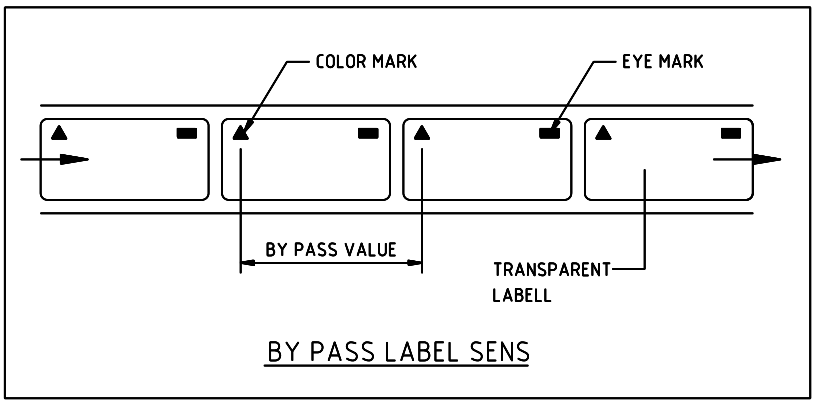
PRODUCT DELAY

It is a delay time of product sensor. If the label sticks on bottle before its position or it dispenses before it comes to massaging station, increase the delay value & set the machine. Also as per sketch shown, for flat bottles, depending upon shifting of label in either direction, increase or decrease the value of product delay.



BYPASS LABEL SENS

If your release liner & label both are of film (clear) then label sensor can not work properly, hence we may have to use color sensor to sense are of the object of label, but it should not be repeated on the same label, otherwise it will not allow to release the full label.



BY PASS LABEL SENS

to avoid this, enter by pass label sensor parameter value, which will ensure full label release even if the same object is repeated on label, as per sketch like after ▲ , even if ▬ comes on the same label it will not allow to stop, but it will be by pass.

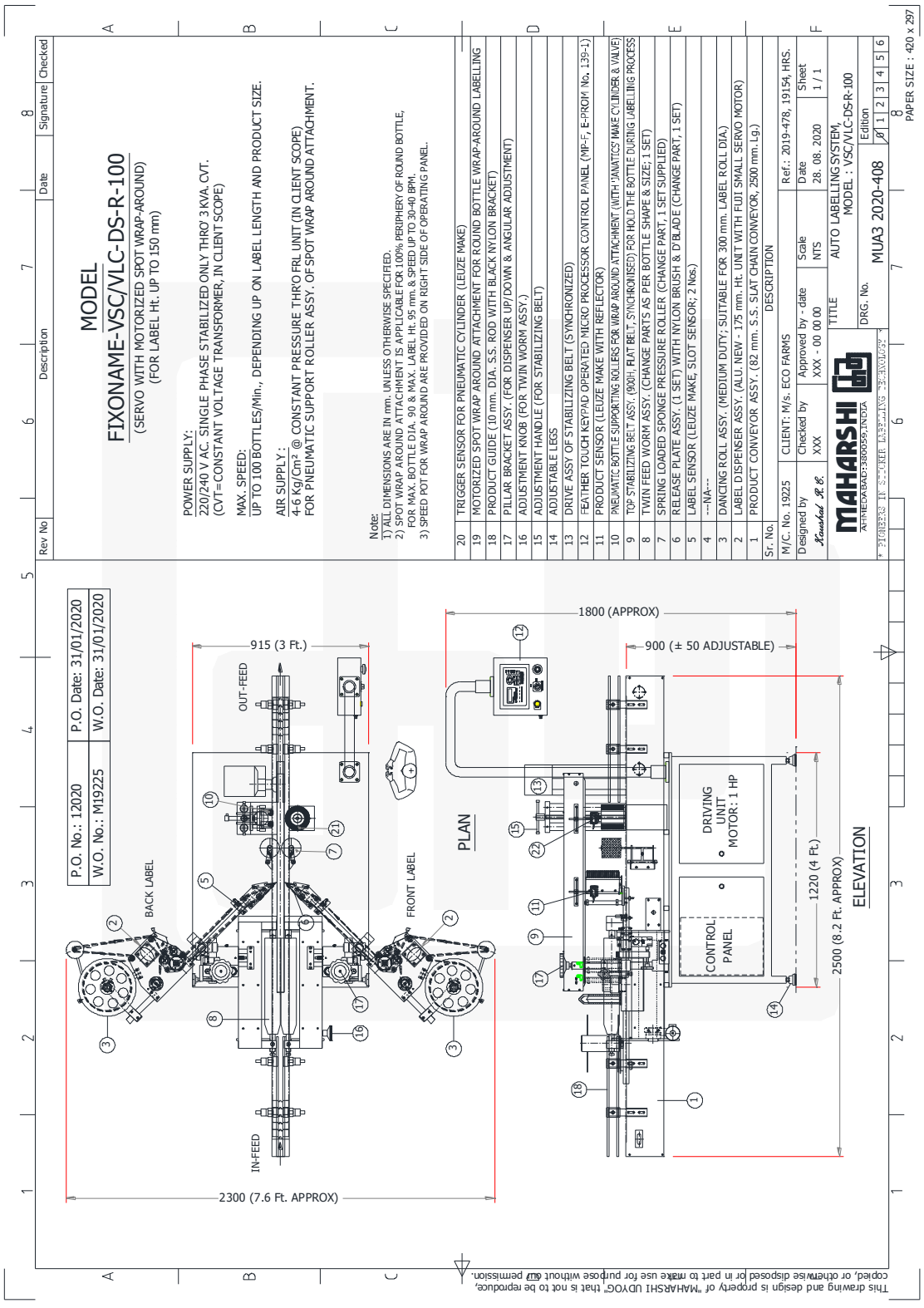
- It should be always 5 mm less than label length.
- Even it is always advisable to have a proper single eye-mark on either label paper or release paper, in case of film label & film release paper.

ERROR CODE FOR PLC.

FOR SERVO MOTOR & DRIVE

ERROR NO.	DESCRIPTION
1	LABEL SENSOR POSITION BEYOND 16
3	LABEL SPEED BEYOND 30 OR 60 M/M
4	0 (ZERO) PULSES/MM
5	LABEL SPEED TOO HIGH
6	LABEL SPEED TOO LOW
11	PRE-DISPENSING BEYOND 5 TO 99 W/O FEED BACK
	PRE-DISPENSING BEYOND 1 TO 99 WITH FEED BACK
12	PRE-DISPENSING TOO BIG
14	PRE-DISPENSING ZERO (0)
15	LABEL SENSOR DELAY NOT ACCEPTABLE (NOT USED)
21	PRE- DISPENSING VERY SMALL
22	BAYPASS LENGTH < PRE- DIS. LENGTH
24	BAYPASS TOO LONG
26	BAYPASS MORE THAN LABEL LENGTH
28	PRE-DISPENSING MORE THAN LABEL LENGTH
30	LABEL LENGTH VERY HIGH
36	PRODUCT DELAY VERY LONG
38	UNCONTROLLED DELAY > PRODUCT DELAY
40	LABEL VERY LONG & SPEED VERY LOW
44	CONVEYOR FULL SPEED @ TOO LOW LABEL SPEED
46	CONVEYOR SPEED TO HIGH

DESIGN OF THE SYSTEM (GA. DWG.)



TECHNICAL DATA

Model	**FIXONAME – VSC/VLC-DS-R-100** **(For Double Side Flat Bottle & Round Bottle Spot Wrap Around Labelling)**
Machine Sr. No.	**19225**
Labelling Speed	**Up to 100 BPM** (Depending up on Label Length & Product Size)
Design	Left → Right (from Operator Side)
Label Dispenser	**Alu New – 175 mm. Ht. Unit with Servo Motor.**
Dispenser Motor	**Fuji make Small Servo Motor.**
Product Conveyor	**82 mm. S.S. Slat Chain Conveyor, 2500 mm. Lg.**
Label Width (Vertical Height) Range	**08 to 150 mm.**
Label Length Range	10 to 300 mm.
Stop Tolerance/Labelling Accuracy	+/- 0.5 to 0.75 mm.
Max. Label Stock (Roll) Dia.	300 mm.
Core Dia. Of Label Stock	76 mm.
Dancing Roll Assy. (Medium Duty-Unwinder Dia.)	Suitable for 300 mm. Label Roll Dia. with Suspended Spring and Automatic Paper Break.
Micro Processor Based Operating & Control Panel	'**Maharshi**' Make, Feather Touch Keypad Operated Micro Processor Based Operating Panel Box & Control Panel with Servo Drive, VFD, MCB, Connector strip etc..
Product Holding System	Top Stabilizing Belt (900H, Flat Belt, synchronized)
Product Separating Device	**Nylon Twin Feed-Worm Assy.** (Synchronized), (Change Part as per Bottle Shape/size, **1 Set Plain Worm Supplied with Machine**)
Spot Wrap Around Attachment (for Round Bottles)	**Motorized Spot Wrap Around** Rubber Roller with **SPG** Make, 90 watt AC. geared motor and Pneumatic Nylon Bottle Supporting Roller Assy. for Round Bottle 100% Wrap Around Labelling at Speed 30-40 BPM.
Bottle Supporting Roller	Pneumatically operated Nylon Bottle supporting roller Assy. for spot wrap around with **'Janatics'** Cylinder and Solenoid Valve (for Round Bottle Labelling)
Label Pressing System (for Flat/Oval Bottle)	**Sponge Pressure Roller** (change part) and Nylon Brush & Doctor Blade on release plate for Flat/Oval bottle
Main Drive Motor	**'Megha'** Make, 1.0 HP. 3 Phase, AC Motor.
Main Drive Gear Box	**'Rotomotive'** Make, Type: Box-O50, 80B5, Ratio: 20: 1
Variable Frequency Drive (VFD) For Main Motor	**'Allen Bradley'** Make, Power Flex-4M, 1.0 HP.
Variable Frequency Drive (VFD) For Spot Wrap Around Motor	**'Allen Bradley'** Make, Power Flex-4M, 0.25 HP.
Over all Measurements (L x W x H)	As Per Dwg. No. MUA3 2020-408
Product sensor	**'Leuze'** Make with Reflector
Label Sensor	**'Leuze'** Make, Slot Sensor (2 Nos.)
Trigger Sensor for Pneumatic Cylinder of Spot Wrap around assy.	**'Leuze'** Make

Utilities:

Power supply	**220/240 V Ac.** Single Phase, Only Through Stabilized Power Source. **(Suggested Through 3 KVA Stabilizer, In Client Scope)**
Air Supply (Optional only For Pneumatic Operation)	**4 To 6 Kg/Cm²** Thro' FRL at Constant Pressure **(FRL Unit, in Client Scope)**

Note: Since our policy is of continuous development and improvement, we reserve the right to supply product, which may differ from those illustrated & described in this publication.

MAINTENANCE

DAILY:

i. The machine should be kept clean and free from labels and spilled product.

ii. Check the all rollers on label dispensing unit and label release edge are clean and free of labels, label adhesive and color particles. After Cleaning, all elements must be sprayed with silicon spray.

iii. Check the all label web guide rollers and product guide, set properly if required.

iv. Check the label scanner and product sensor are clean and at proper position.

WEEKLY:

i. Check the surface of slats/rollers of product conveyor is clean and not contaminated.

ii. Check the tightness of all bolts & nuts to avoid misalignment or accident.

iii. Please apply the grease to all chain drives. (do not apply grease/oil to timing pulley belt drive)

MONTHLY:

i. Check the slats/rollers of product conveyor for sign of wear.

ii. Blow the low-pressure air to operating/control panel from a distance, to remove dust without damaging wiring connections.

iii. Check the wiring and pneumatics connectors, if found loose, tighten the same.

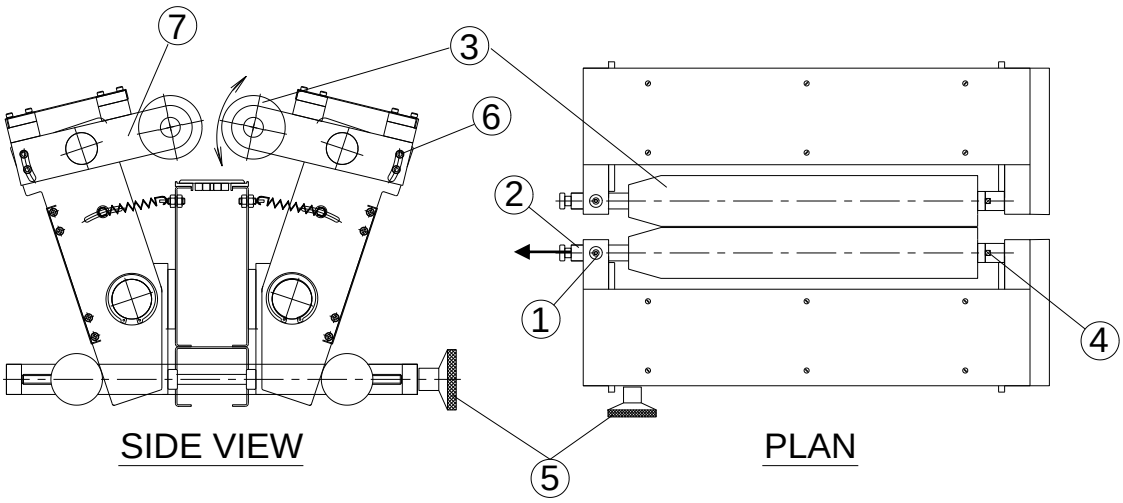
iv. Check the oil level in gearbox. (Note: 'Rotomotive' make gearbox is supplied with long-life lubrication and they do not require any maintenance.)

v. Check the drive timing belts, stabilizing belt etc. for tension and sign of wear, and replace if damaged.

~~vi. Check the carbon brushes of DC. Motor (of space creator) for wear and/or crack and replace if required.~~

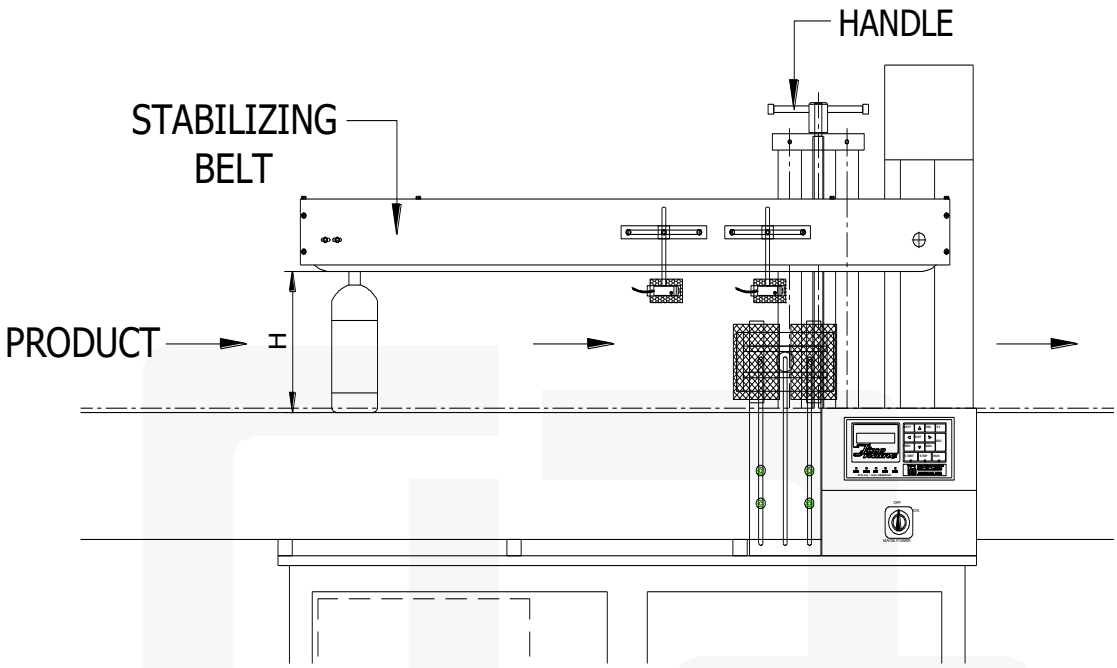
TWIN WORM SETTINGS

TWIN WORM ASSY.



- Kindly loose the Allen screw (1) & pull lock (2) & slide worm (3) in such a way that it will come out from slot (4) & this complete process takes only 2 min. Max.
- For fixing the new worm, follow the above process in reverse.
- For adjusting the gap between two worms, it can adjust with the help of hand wheel (5).
- Angular settings of worm bracket (7) can be achieved by loosening Allen pin (6) on both side, set the desired position & retighten.
- **Nylon Twin Feed Worm Assy. (Change Part as per Product Shape & Size) - 1 Set. Plain Worm Supplied with this machine.**

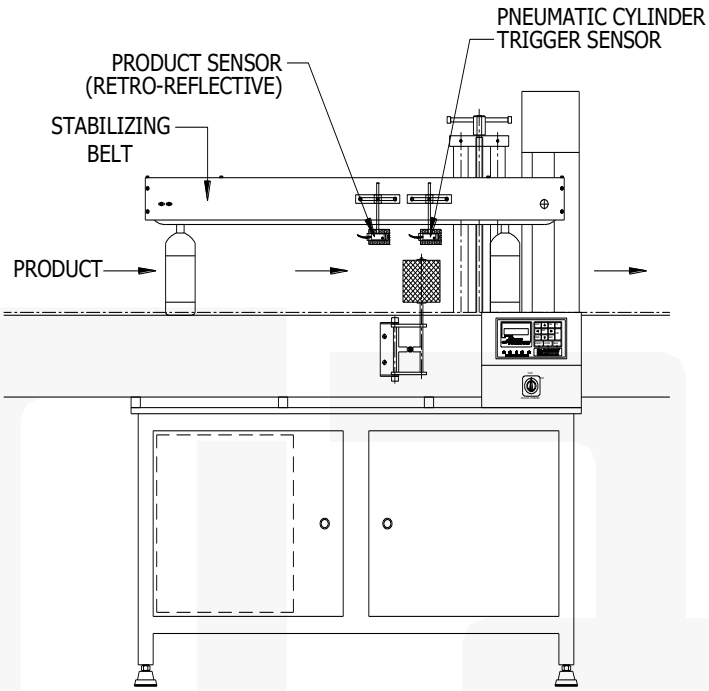
STABILIZING BELT



Stabilizing belts height will be change as and when bottle height will be change. For any height, it can set by turning handle for up - down movement.

- For change over, new size bottles, arrange two bottles on conveyor as indicated in drawing & adjust the belt on cap with slight pressure so that during the movement bottle should not turn.
- If belt is worm out, please replace & advice to keep in stock.
- **Top Stabilizing Belt (900H, Flat Belt); Synchronized drive with conveyor.**

PRODUCT SENSOR (RETRO-REFLECTIVE)

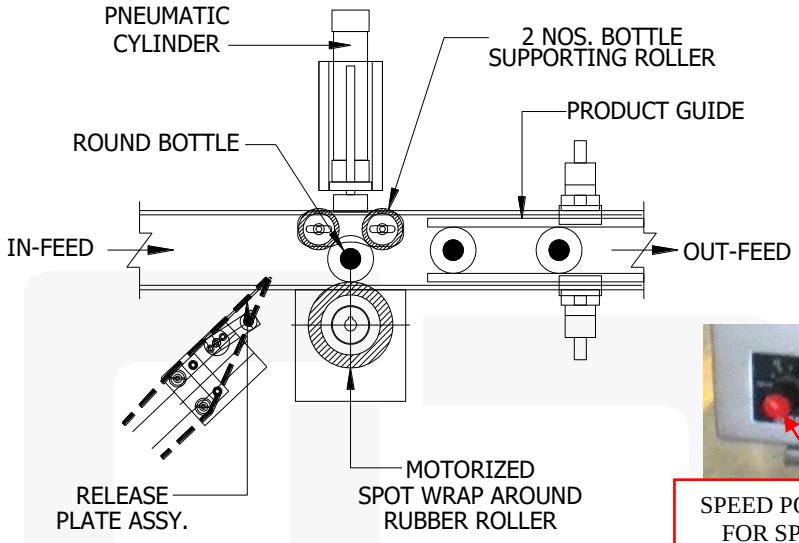


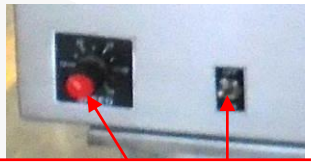
It is senses the presence of container, it is a 'Retro-reflective' type, where reflector has to be in front of sensor & when container passes between sensor & reflector it gives signal thro' PLC to dispensing motor & orange light gets 'ON' on the sensor. In general, it does not require any settings, as it is factory set. Only to ensure is reflector position & to set the same, slot is provided on bracket, please re-tighten properly cap screw after adjustment.

- **Product Sensor: 'Leuze' Make with Reflector & Pneumatic Cylinder Trigger Sensor: 'Leuze' Make**

SPOT WRAP-AROUND SYSTEM

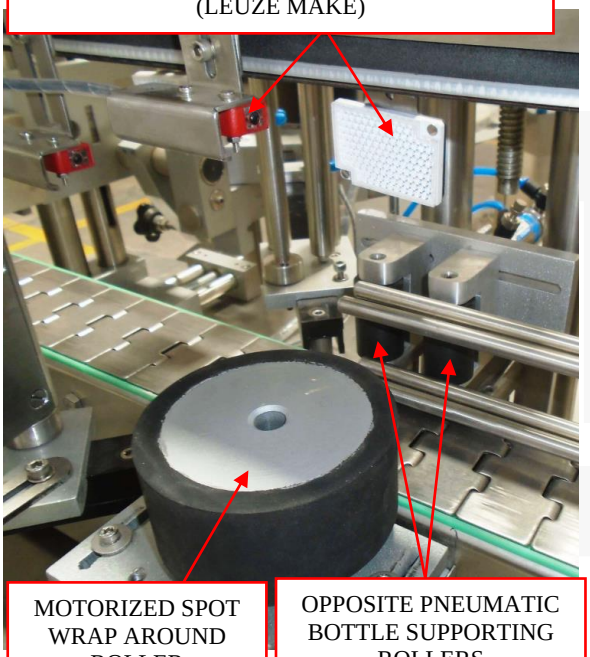
(FOR ROUND BOTTLE LABELLING)





SPEED POT & ON/OFF SWITCH FOR SPOT WRAP AROUND

PNEUMATIC CYLINDER TRIGGER SENSOR (LEUZE MAKE)



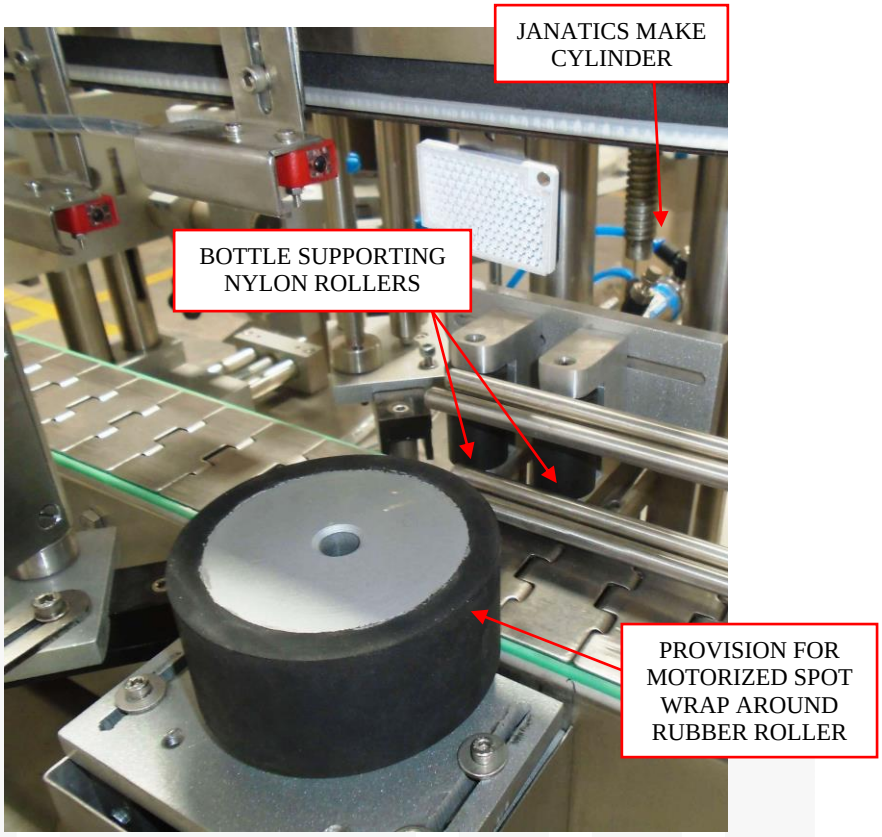
MOTORIZED SPOT WRAP AROUND ROLLER

OPPOSITE PNEUMATIC BOTTLE SUPPORTING ROLLERS

For Round Bottle Labelling, Motorized spot wrap around system is showing in above sketch, Wrap around Rubber Roller with AC. Geared Motor & Opposite Pneumatic Bottle Supporting Nylon Roller are provided. After dispensing of label and picked up by the Round Bottle, Trigger sensor will give signal to Pneumatic cylinder and it will hold the bottle between Rubber roller and Opposite Bottle Support roller. Motorized Rubber Roller will rotate the bottle and wrap the label on Bottle periphery. **Please change sponge pressure roller instead of spot wrap around rubber roller assy. and stop Motor & the air supply, when front/back labelling of flat bottle is in process.**

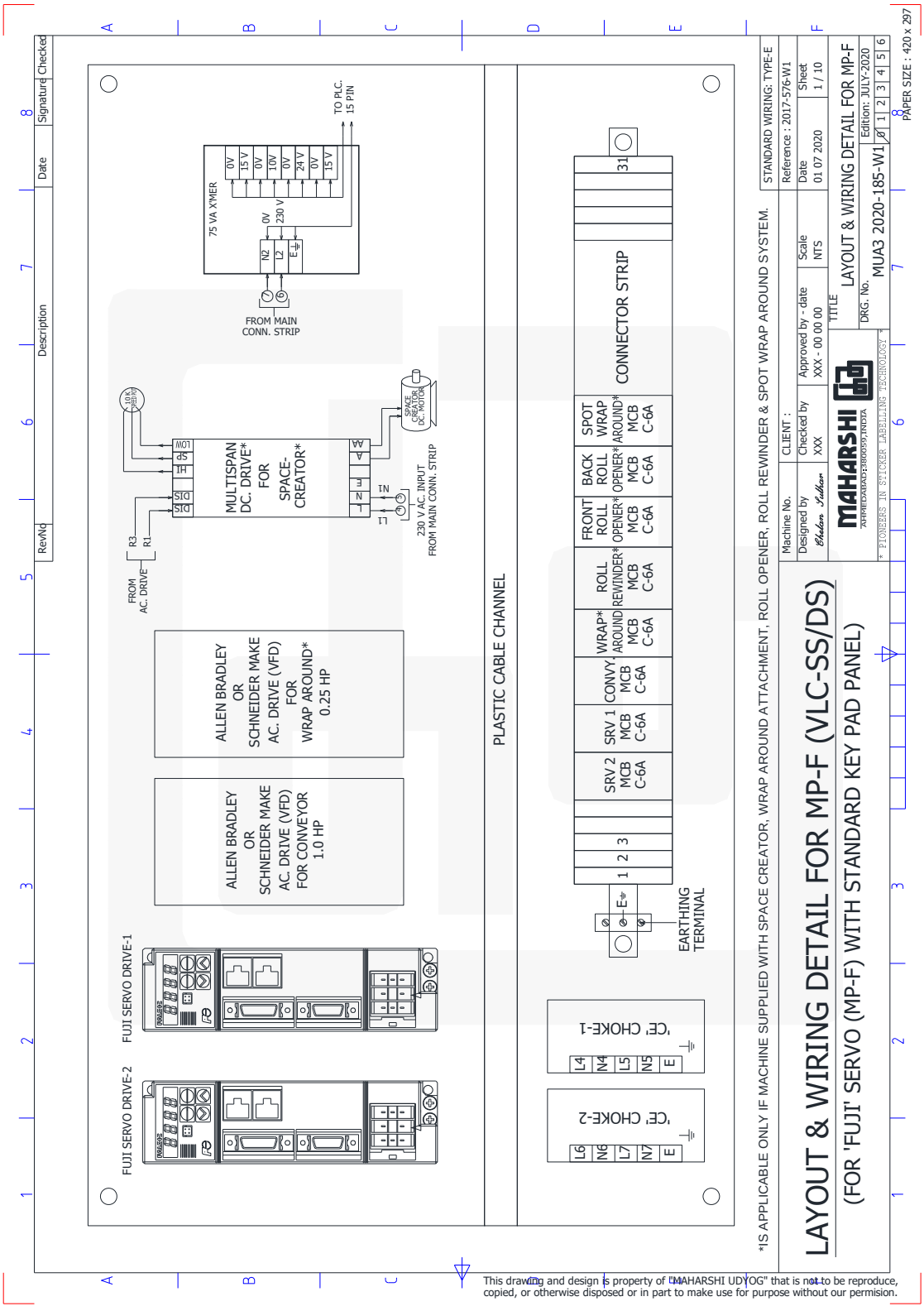
ON/OFF switch & speed pot for spot wrap around system is given on right side of operating Panel.

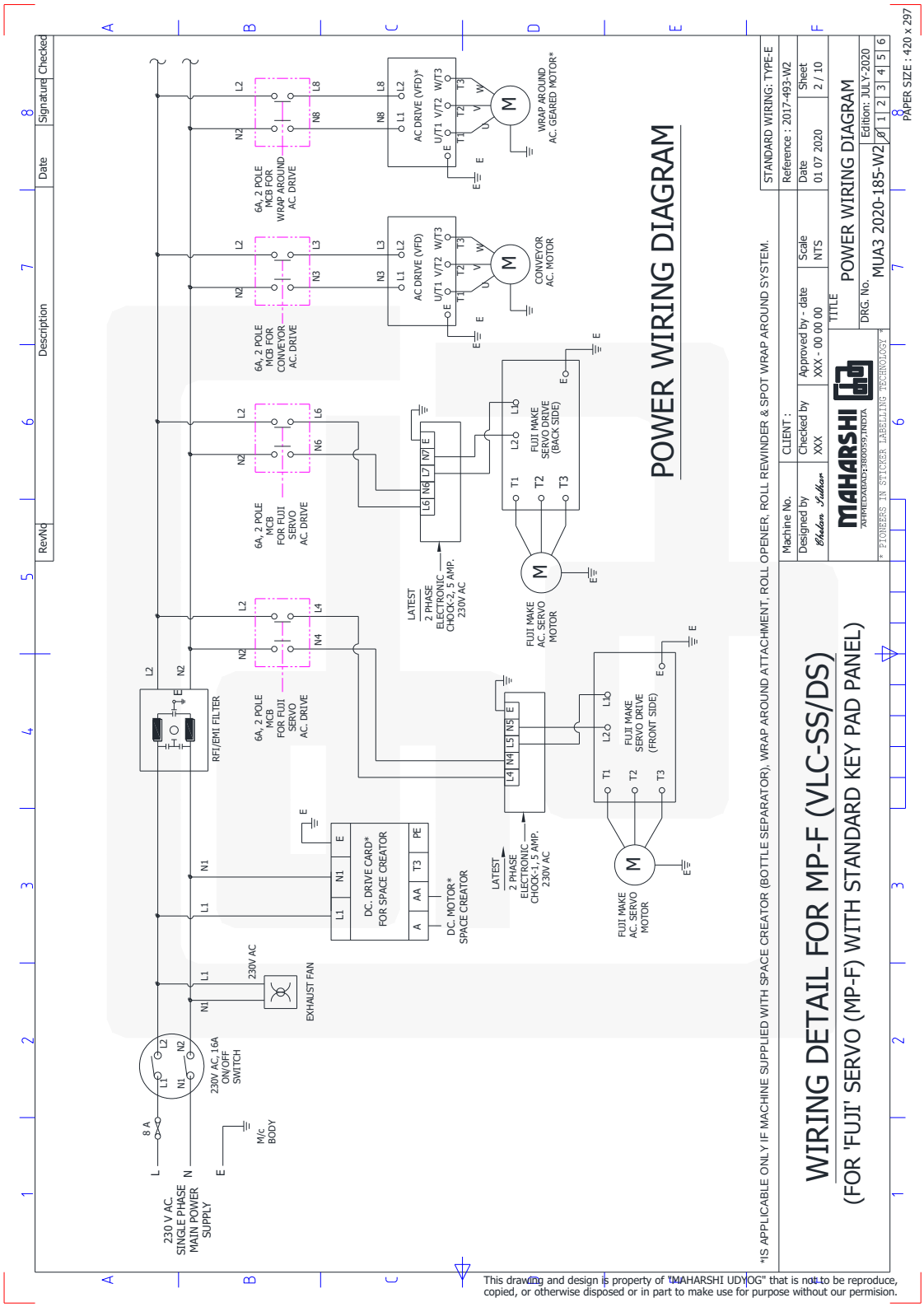
PNEUMATIC BOTTLE SUPPORTING ROLLER

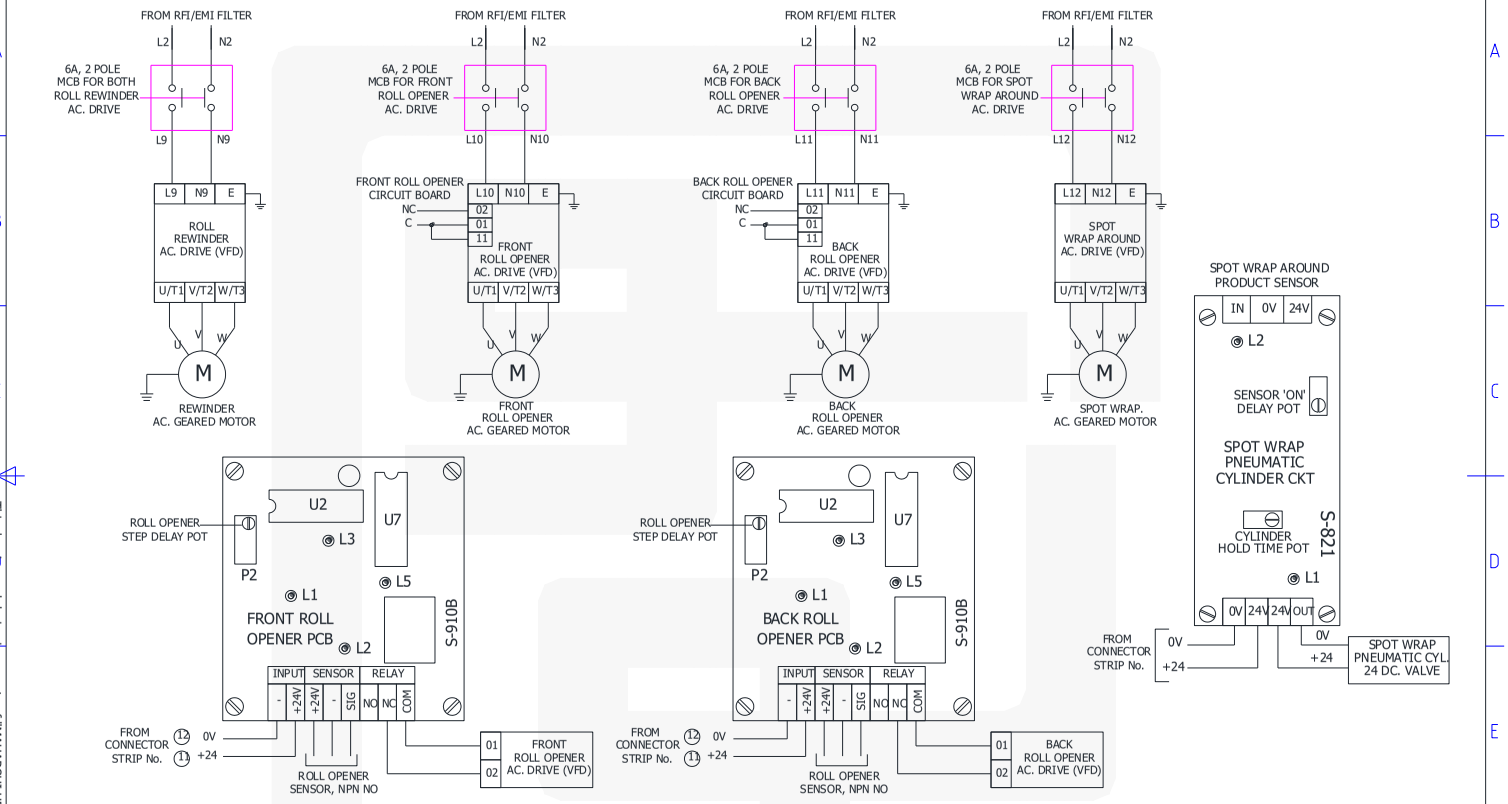


A Pneumatic Bottle Supporting Roller for round bottle labeling, having 'Janatics' make Pneumatic Cylinder, Solenoid Valve and Two Nos. Nylon rollers as shown in above Photograph. After release of label and pick up with the bottle, pneumatically operated Bottle supporting roller will hold the bottle between two roller and Motorized spot wrap around rubber roller will rotate the bottle and fix the wrap around label on round bottle periphery. You can adjust the gap between two rollers as per the size of round bottle. Set of roller with bracket is require as a change part when bottle/label height will change.

WIRING DIAGRAM







THIS WIRING IS APPLICABLE ONLY IF MACHINE SUPPLIED WITH MOTORIZED ROLL OPENER, ROLL REWINDER & SPOT WRAP AROUND SYSTEM.

RevNo	Description	Date	Signature	Checked

WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

STANDARD WIRING: TYPE-E

Machine No.	CLIENT :			Reference : 2017-493-W2	
Designed by	Checked by	Approved by - date	Scale	Date	Sheet
Chetan Suthar	XXX	XXX - 00 00 00	NTS	01 07 2020	3 / 10

MAHARSHI
AHMEDABAD-380059,INDIA
* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE: POWER WIRING DIAGRAM

DRG. No. MUA3 2020-185-W3

Edition: JULY-2020 (0 1 2 3 4 5 6)

PAPER SIZE : 420 x 297

RevNo	Description	Date	Signature	Checked

SR. NO.								SERVO-2 MCB		SERVO-1 MCB		CONVEYOR MCB		WRAP AROUND*		ROLL REWINDER*		FRONT ROLL OPENER*		BACK ROLL OPENER*		SPOT WRAP AROUND*	
220V AC I/P			S/W O/P		EXTRA O/P																		
L	N	E	L1	N1	L1	N1	E	L6	N6	L4	N4	L3	N3	L8	N8	L9	N9	L10	N10	L11	N11	L12	N12
								2 POLE MCB-6A		2 POLE MCB-6A		2 POLE MCB-6A		2 POLE MCB-6A		2 POLE MCB-6A		2 POLE MCB-6A		2 POLE MCB-6A		2 POLE MCB-6A	
1	2	3	4	5	4	5	3																
L	N	E	L1	N1	L1	N1	E	L2	N2	L2	N2	L2	N2	L2	N2	L2	N2	L2	N2	L2	N2	L2	N2
S/W I/P			TO FILTER INPUT					FROM FILTER O/P		FROM FILTER O/P		FROM FILTER O/P		FROM FILTER O/P		FROM FILTER O/P		FROM FILTER O/P		FROM FILTER O/P		FROM FILTER O/P	

BR	BL	BK	BR	BL	W	R	BK	R	BK	R	BK
PRODUCT SENSOR			LABEL SENSOR			PRINTER-1		PRINTER-2		SPL. RLY	
8			11			14		16		18	
	9			12			15		17		19
		10			13						
24V	0V	PRDT	24V	0V	LBL	24V	P1	24V	P2	24V	SPL
GY	BK	DG	W	BL	DB	BR	YL	R	O	V	GR
MASTER OR FRONT / SINGLE SIDE PLC 25 PIN CABLE											

SR. NO.												
BR	BL	BK	BR	BL	W	R	BK	R	BK	R	BK	
PRODUCT SENSOR			LABEL SENSOR			PRINTER-1		PRINTER-2		SPL. RLY		
20			23			26		28		30		
	21			24			27		29		31	
		22			25							
24V	0V	S4	24V	0V	S5	24V	P1	24V	P2	24V	SIG	
GY	BK	DG	W	BL	DB	BR	YL	R	O	V	GR	
SLAVE OR BACK SIDE PLC												

FUJI SERVO DOUBLE SIDE PANEL CONNECTOR STRIP DETAIL

*IS APPLICABLE ONLY IF MACHINE SUPPLIED WITH SPACE CREATOR (BOTTLE SEPARATOR), WRAP AROUND ATTACHMENT, ROLL OPENER, ROLL REWINDER & SPOT WRAP AROUND SYSTEM.

WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

STANDARD WIRING: TYPE-E

Machine No.	CLIENT :			Reference : 2015-671-W3	
Designed by	Checked by	Approved by - date	Scale	Date	Sheet
Chetan Suthar	XXX	XXX - 00 00 00	NTS	01 07 2020	4 / 10

MAHARSHI
AHMEDABAD-380059,INDIA
* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE: CONNCETOR STRIP WIRING DIAGRAM

DRG. No.: MUA3 2020-185-W4

Edition: JULY-2020

0 1 2 3 4 5 6

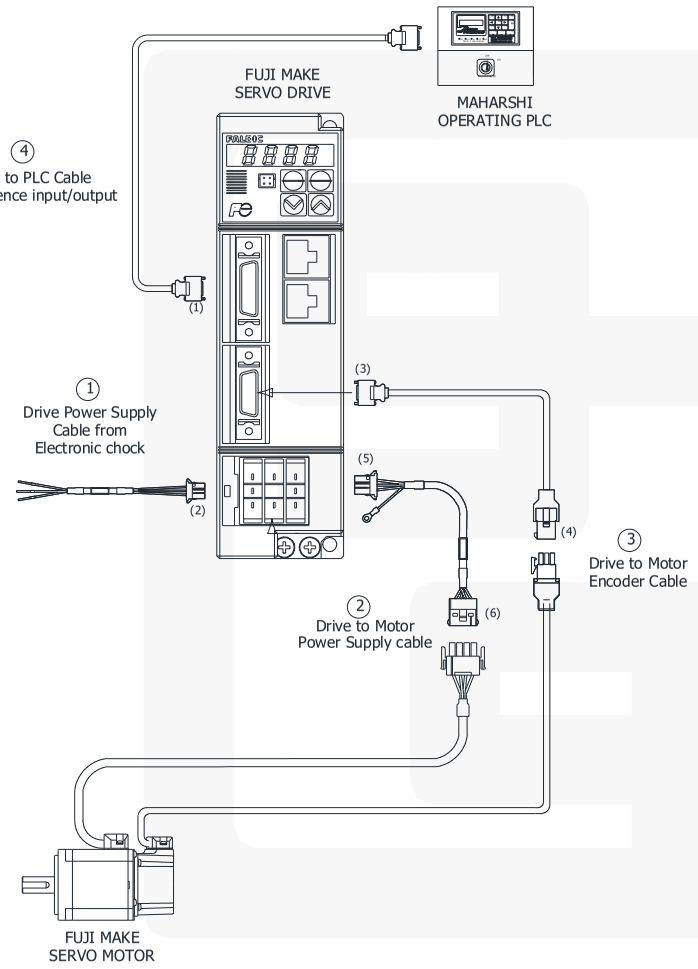
PAPER SIZE : 420 x 297

RevNo	Description	Date	Signature	Checked

FUJI SERVO DRIVE

SCHEMATIC WIRING DETAIL

(FOR STANDARD START/STOP KEY PAD PANEL)



					STANDARD WIRING: TYPE-E	
Machine No.	CLIENT :				Reference : 29439-W3-R1	
Designed by	Checked by	Approved by - date	Scale		Date	Sheet
Chetan Suthar	XXX	XXX - 00 00 00	NTS		01 07 2020	5 / 10

MAHARSHI
AHMEDABAD-380059,INDIA
* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE
SCHEMATIC WIRING OF FUJI SERVO MOTOR & DRIVE

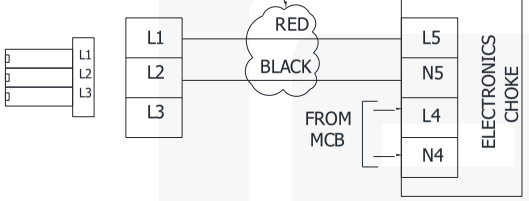
DRG. No. MUA3 2020-185-W5

Edition: JULY-2020 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |

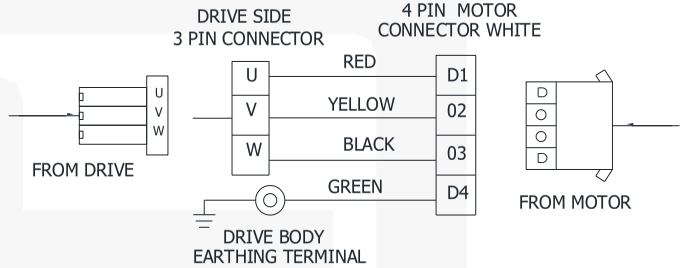
PAPER SIZE : 420 x 297

RevNo	Description	Date	Signature	Checked

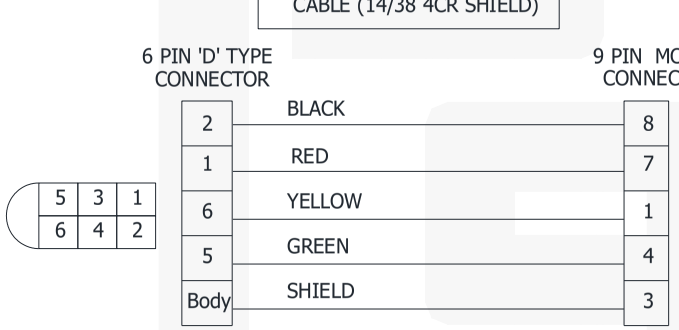
1) DRIVE POWER SUPPLY CABLE 0.5^2 mm R.R CABLE

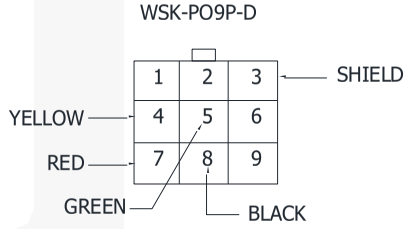


2) DRIVE TO MOTOR POWER SUPPLY CABLE (0.75^2 mm 4 CR)



3) DRIVE TO MOTOR ENCODER CABLE (14/38 4CR SHIELD)





SERVO FUJI DRIVE TO MOTOR CONNECTOR DETAIL

WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

Machine No.	CLIENT :			STANDARD WIRING: TYPE-E	
Designed by: Chetan Suthar	Checked by: XXX	Approved by - date: XXX - 00 00 00	Scale: NTS	Reference : 29439-W4-R1	
				Date: 01 07 2020	Sheet: 6 / 10

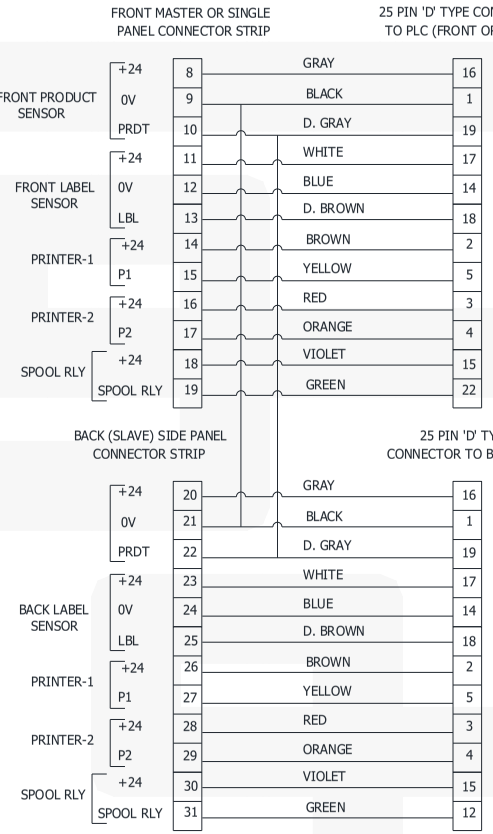
MAHARSHI
AHMEDABAD-380059,INDIA
* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE: FUJI DRIVE TO MOTOR CONNECTOR WIRING

DRG. No.: MUA3 2020-185-W6 | Edition: JULY-2020 | Ø | 1 | 2 | 3 | 4 | 5 | 6

PAPER SIZE : 420 x 297

RevNo	Description	Date	Signature	Checked



WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

STANDARD WIRING: TYPE-E

Machine No.	CLIENT :			Reference : 2011-329-W6	
Designed by	Checked by	Approved by - date	Scale	Date	Sheet
Chetan Suthar	XXX	XXX - 00 00 00	NTS	01 07 2020	7 / 10

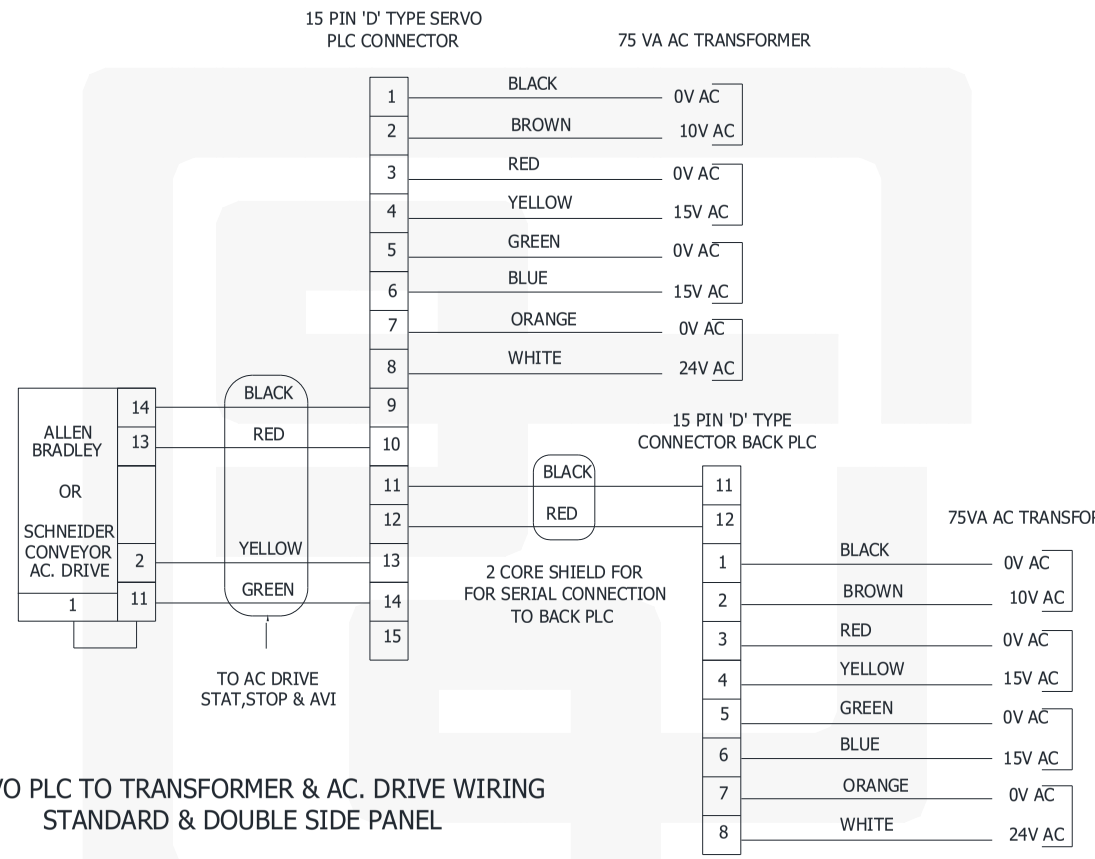
MAHARSHI
AHMEDABAD-380059,INDIA
* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE: FUJI SERVO PLC TO CONNECTOR SRTIP WIRING

DRG. No. MUA3 2020-185-W7 | Edition: JULY-2020 | 0 | 1 | 2 | 3 | 4 | 5 | 6

PAPER SIZE : 420 x 297

RevNo	Description	Date	Signature	Checked



SERVO PLC TO TRANSFORMER & AC. DRIVE WIRING
STANDARD & DOUBLE SIDE PANEL

WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

STANDARD WIRING: TYPE-E

Machine No.	CLIENT :			Reference : 2011-329-W7	
Designed by	Checked by	Approved by - date	Scale	Date	Sheet
Chetan Sutha	XXX	XXX - 00 00 00	NTS	01 07 2020	8 / 10

MAHARSHI
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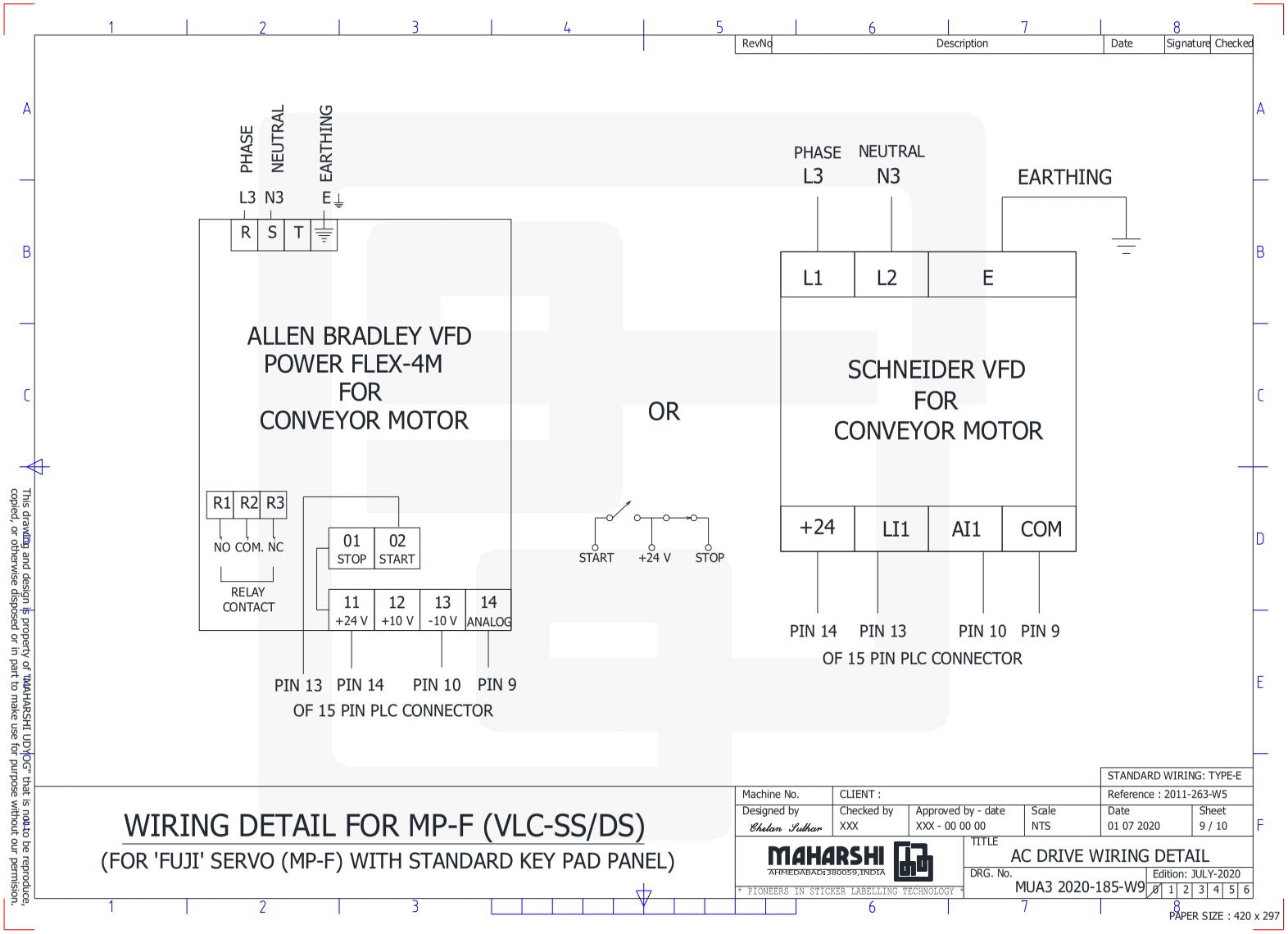
TITLE
SERVO PLC TO TRANSFORMER WIRING

DRG. No. MUA3 2020-185-W8 | Edition: JULY-2020 | 0 | 1 | 2 | 3 | 4 | 5 | 6

PAPER SIZE : 420 x 297



WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

Machine No.	CLIENT :			STANDARD WIRING: TYPE-E	
Designed by	Checked by	Approved by - date	Scale	Date	Sheet
Chetan Suthar	XXX	XXX - 00 00 00	NTS	01 07 2020	9 / 10

MAHARSHI
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* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE: AC DRIVE WIRING DETAIL

DRG. No. MUA3 2020-185-W9

Edition: JULY-2020 (0 1 2 3 4 5 6)

PAPER SIZE : 420 x 297

RevNo	Description	Date	Signature	Checked

'MARKOPRINT' X1JET (TIJ) PRINTER WIRING*

3 PIN, MALE /FEMALE CONNECTOR

MALE CONNECTOR
FOR SENSOR

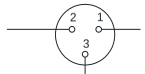
PIN NO. 1
VCC+ / POWER SUPPLY

PIN NO. 2
VCC-/GROUND

PIN NO. 3
OUTPUT / SIGNAL

FEMALE CONNECTOR
FOR ENCODER

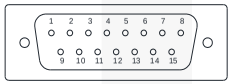
PIN NO. 2
VCC-/GROUND



PIN NO. 1
VCC + / POWER SUPPLY

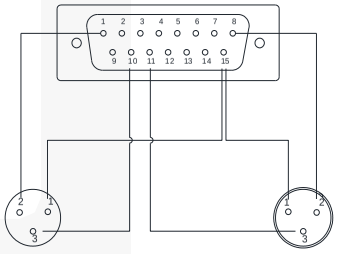
PIN NO. 3
OUTPUT / SIGNAL

SUB-D 15 PIN CONFIGURATION



1- VCC-/SENSOR GROUND
8- VCC-/ENCODER GROUND
10- SENSOR SIGNAL
11- ENCODER SIGNAL
15- VCC+/ POWER SUPPLY
(SENSOR & ENCODER)

SPLITTER CABLE CONNECTION



FEMALE CONNECTOR

MALE CONNECTOR

*PRINTER WIRING IS APPLICABLE ONLY IF PRINTER INTEGRATED.

WIRING DETAIL FOR MP-F (VLC-SS/DS)

(FOR 'FUJI' SERVO (MP-F) WITH STANDARD KEY PAD PANEL)

STANDARD WIRING: TYPE-E

Machine No.	CLIENT :			Reference : 2011-263-W5	
Designed by	Checked by	Approved by - date	Scale	Date	Sheet
Chetan Suthar	XXX	XXX - 00 00 00	NTS	01 07 2020	10 /10

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* PIONEERS IN STICKER LABELLING TECHNOLOGY *

TITLE: X1JET PRINTER WIRING DETAILS

DRG. No. MUA3 2020-185-W10

Edition: JULY-2020 (Ø 1 2 3 4 5 6)

PAPER SIZE : 420 x 297

RECOMMENDED SPARES LIST

ELECTRONICS (MP-F, E-PROM No.- 139-1)	
1. LABEL SENSOR (LEUZE MAKE SLOT SENSOR, 2 Nos.)	[ ]
2. PRODUCT SENSOR (LEUZE MAKE WITH REFLECTOR)	[ ]
3. TRIGGER SENSOR FOR PNEUMATIC BOTTLE SUPPORT ROLLER CYLINDER (LEUZE MAKE)	[ ]
4. LCD DISPLAY	[ ]
5. FEATHER TOUCH KEYPAD	[ ]
6. SERVO MOTOR & DRIVE FOR LABEL DISPENSER (FUJI MAKE SMALL SERVO MOTOR)	[ ]
7. AC. DRIVE FOR MAIN MOTOR (AB-POWER FLEX-4M, 1.0 HP.)	[ ]
8. AC. GEARED MOTOR FOR SPOT WRAP AROUND (SPG MAKE)	[ ]
9. AC. DRIVE FOR SPOT WRAP AROUND MOTOR (AB-POWER FLEX-4M, 0.25 HP.)	[ ]
10. JANATICS MAKE PNEUMATIC CYLINDER & SOLENOID VALVE FOR BOTTLE SUPPORTING ROLLERS OF SPOT WRAP-AROUND	[ ]

STD. MECHANICAL PARTS	PART NO.
FRONT & BACK LABEL DISPENSER: ALU. NEW -175 mm. Ht. UNIT WITH SERVO MOTOR	
1. TRACTION ROLLER ASSY.	101-03-04-00
1.1 TRACTION ROLLER (175 mm. Ht.)	101-03-04-01
1.2 SHAFT FOR TRACTION ROLLER	101-03-04-03
1.3 BEARING FOR TRACTION ROLLER	101-03-04-08
1.4 BRG. HOUSING FOR TRACTION ROLLER	101-03-04-02
2. BACK PAPER REWINDER ASSY.	101-03-05-00
3. RUBBER PRESSURE ROLLER ASSY.	101-03-04-13-00
3.1 RUBBER PRESSURE ROLLER (DOUBLE ROLLER)	101-03-04-13-01
3.2 BRG. FOR RUBBER PRESSURE ROLLER	101-03-04-13-02
4. LABEL PRESSING SPRING PATTI	101-03-07-01
5. SPRING SET FOR DANCING ROLL (MEDIUM DUTY)	[ ]
6. TIMING PULLEY SET FOR DISPENSER (DOUBLE)	101-03-10-00
7. TIMING BELTS FOR DISPENSER (DOUBLE BELT DRIVE)	101-03-11-00
8. TOP STABILIZING BELT (900H, FLAT BELT)	[ ]
9. TIMING PULLEY SET FOR STABILIZING BELT	[ ]
10. SPONGE PRESSURE ROLLER (1 Set. SUPPLIED)	[CHANGE PART]
11. NYLON TWIN FEED WORM ASSY. (1 Set. PLAIN WORM SUPPLIED)	[CHANGE PART]
12. SET OF TIMING BELT FOR FEED WORM	[ ]
13. SET OF TIMING PULLEY FOR FEED WORM	[ ]
14. LABEL RELEASE PLATE (1 Set. SUPPLIED)	[CHANGE PART]
15. NYLON BRUSH (1 Set. SUPPLIED)	[CHANGE PART]
16. SPOT WRAP AROUND RUBBER PRESSURE ROLLER (2 Nos. SUPPLIED)	[CHANGE PART]
17. BOTTLE SUPPORTING NYLON ROLLERS (2 Set. SUPPLIED)	[CHANGE PART]
18. BLUE NYLON LABEL WEB GUIDE	[ ]
19. 82 mm. S.S. SLAT CHAIN FOR PRODUCT CONVEYOR	[ ]

FAULT CODE FOR FUJI MOTOR

DISPLAY ON SERVO DRIVE

NUMBER	CODE	FULL NAME
1	OC1	Over Current-1
2	OC2	Over Current-2
3	OS	Over Speed
4	HV	High Voltage
5	Et	Encoder Trouble
6	Ct	Control Power Alarm
7	dE	Memory Alarm
8	rH2	Re-Generative Transist Overheat
9	Ec	Encoder Communication Alarm
10	Tnt	Tone Duplication
11	Ol	Overload
12	LV	Under Voltage
13	rH1	Re-Generative Resistive Overheat
14	OF	Deviation Limit
15	AH	Amplifier Overheat

SETTINGS PARAMETER FOR AB-POWER FLEX-4M AC DRIVE

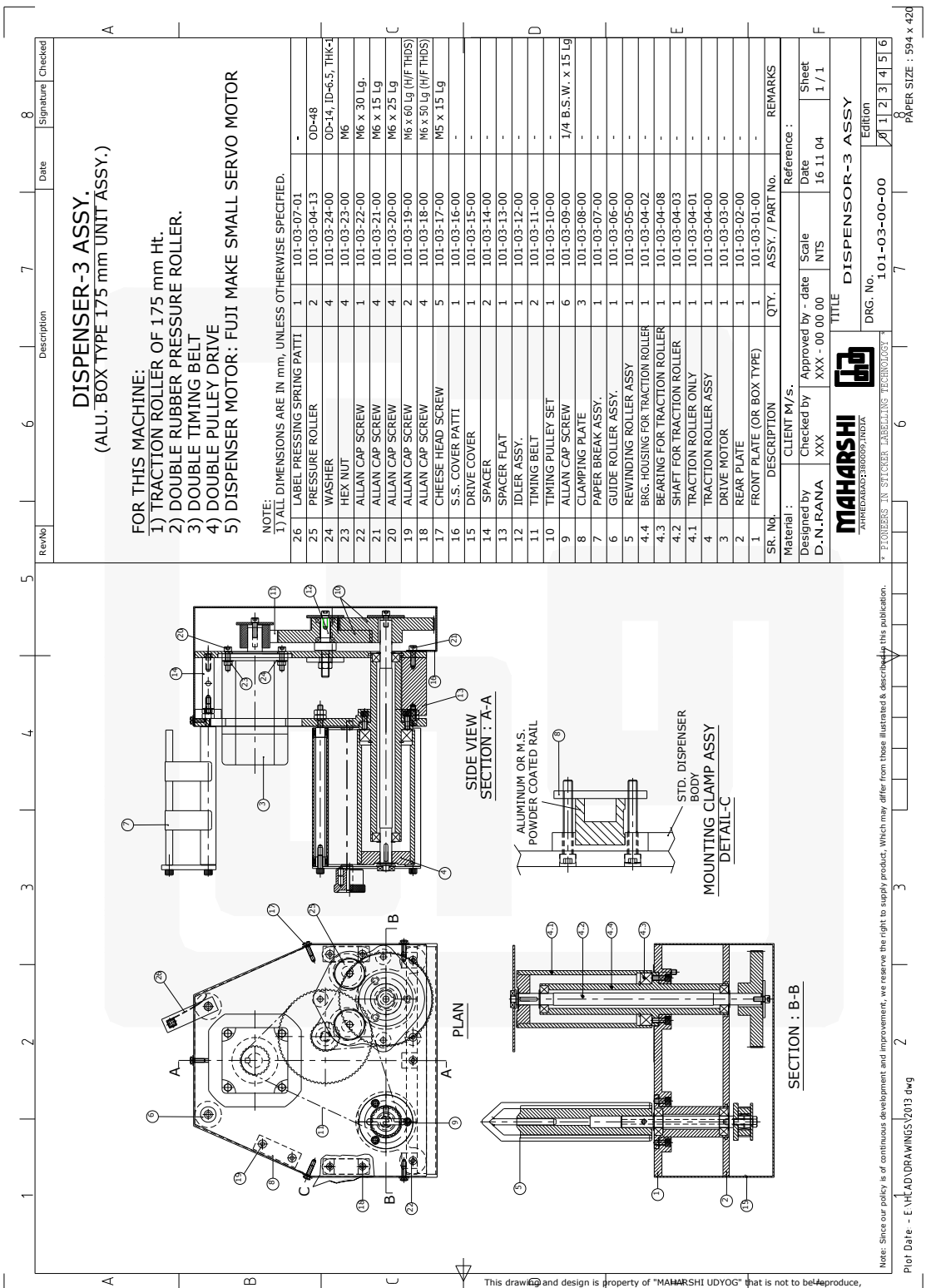
Parameter No.	Default / Fac. Set.	Parameter Description
P101	220	Motor NP Voltage
P102	50	Motor NP Hz
P103	3.7 / 7.2	Motor Overload Current Limit
P105	50	Max. Output Frequency
P106	2	Start / Stop Command Source
P108	2	Speed Source
P109	0.5	Acceleration Time
P110	0.5	Declaration Time
T212	50	For Percentage Frequency
T221	2	For Relay Output
A434	1	Reverse Disable
A442	3.7 / 7.2	Max. Current Limit

Fault Codes

No.	Fault	Description
F2	Auxiliary Input (1)	Check remote wiring
F3	Power Loss	Monitor the incoming AC line for low voltage or line power interruption.
F4	Under Voltage (1)	Monitor the incoming AC line for low voltage or line power interruption.
F5	Over Voltage (1)	Monitor the AC line for high line voltage or transient conditions. Bus over voltage can also be caused by motor regeneration. Extend the decel time or install dynamic brake option.
F6	Motor Stalled (1)	Increase [Accel Time x] or reduce load so drive output current does not exceed the current set by parameter A089 [Current Limit]
F7	Motor Overload (1)	An excessive motor load exists. Reduce load so drive output current does not exceed the current set by parameter P033 [Motor OL, Current]
F8	Heatsink Ovr Tmp (1)	Check for blocked or dirty heat sink fns. Verify that ambient temperature has not exceeded 40^0 C (104^0 F) for IP 30/NEMA 1/UL Type 1 installations or 50 C (122^0 F) for Open type installations. Check fan.
F12	HW OverCurrent (1)	Check programming. Check for excess load, improper DC boost setting, DC brake volts set too high or other causes of excess current.
F13	Ground Fault	Check the motor and external wiring to the drive output terminals for a grounded condition.
F33	Auto Rstrt Tries	Correct the cause of the fault and manually clear.
F38	Phase U to Gnd	Check the wiring between the drive and motor. Check motor for grounded phase. Replace drive if fault cannot be cleared.
F39	Phase V to Gnd	
F40	Phase W to Gnd	
F41	Phase UV Short	Check the motor and drive output terminal wiring for a shorted condition. Replace drive if fault cannot be cleared.
F42	Phase UW Short	
F43	Phase VW Short	
F48	Params Defaulted	The drive was commanded to write default values to EEPROM. Clear the fault or cycle power to the drive. Program the drive parameters as needed.
F63	SW Over Current (1)	Check load requirements and A098 [SW Current Trip] setting.
F64	Drive Overload	Reduce load or extend Accel Time.
F70	Power Unit	Cycle power. Replace drive if fault cannot be cleared.
F71	Net Loss	
F81	Comm Loss	If adapter was not intentionally disconnected, check wiring to the port. Replace wiring, port expander, adapters or complete drive as required. Check connection. An adapter was intentionally disconnected. Turn off using A105 [Comm Loss Action].
F100	Parameter Checksum	Restore factory defaults.
F122	I/O Board Fail	Cycle power, Replace drive if fault cannot be cleared.

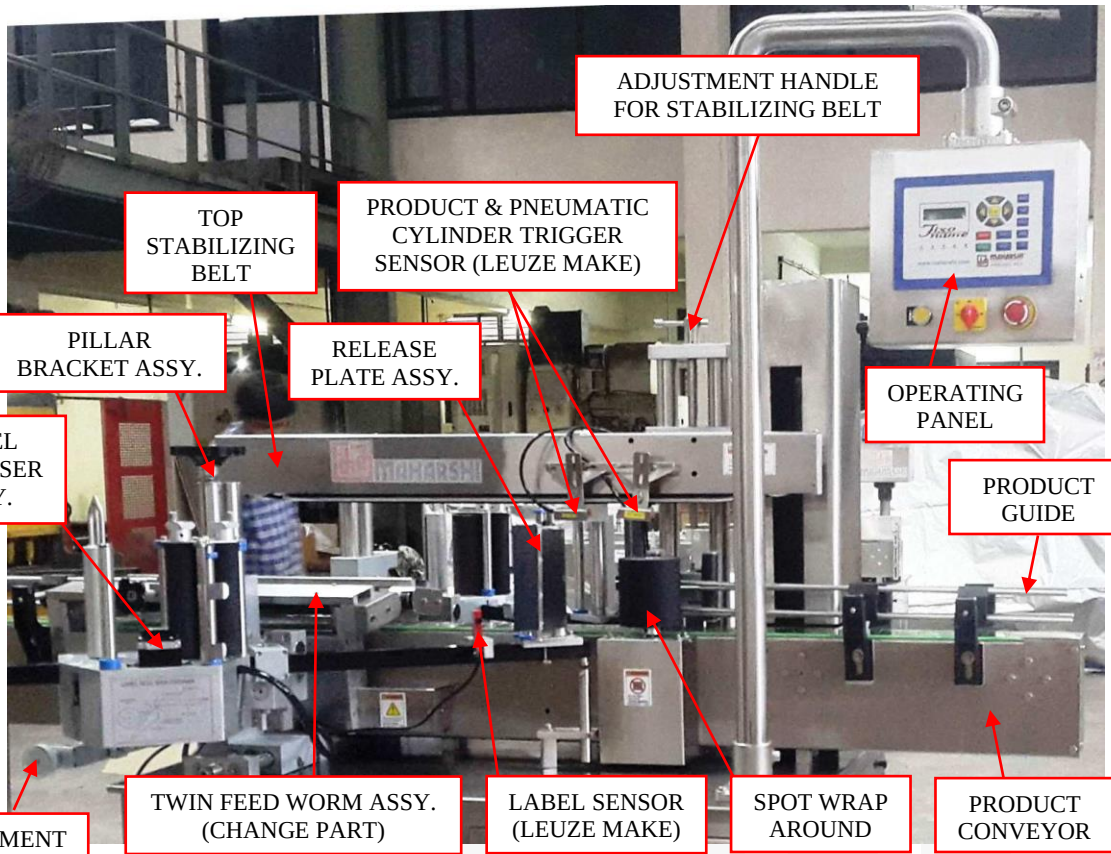
(1) Auto-Reset / Run type fault. Configure with parameters A451 and A452.

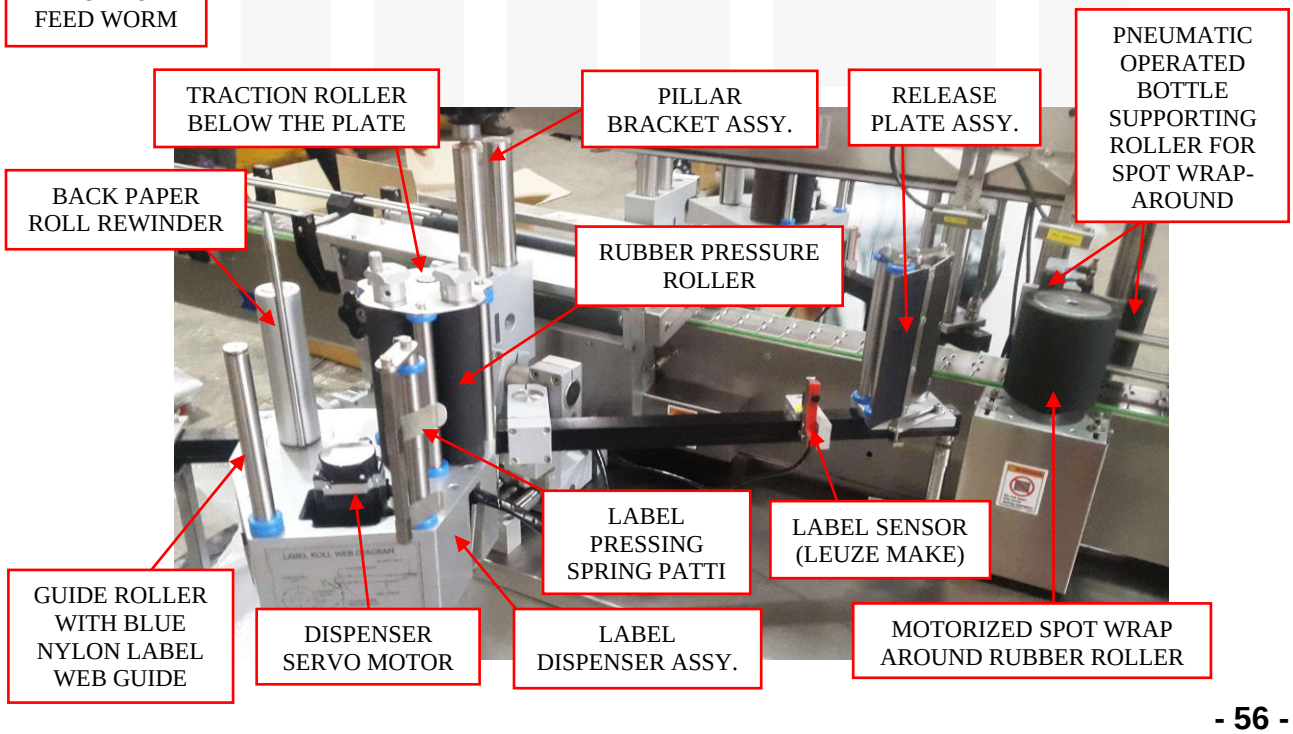
DISPENSER ASSY.

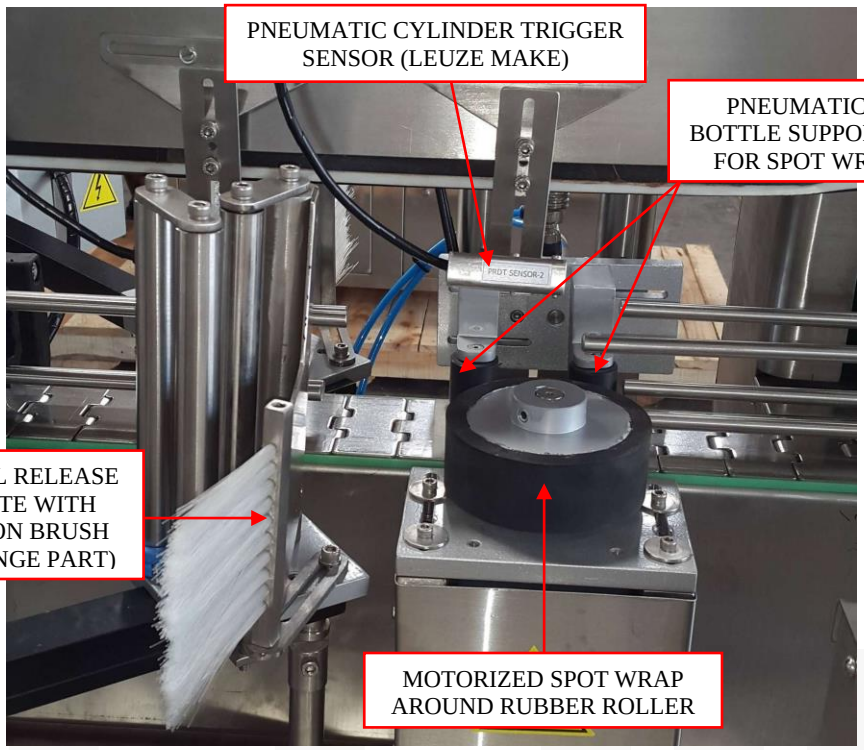


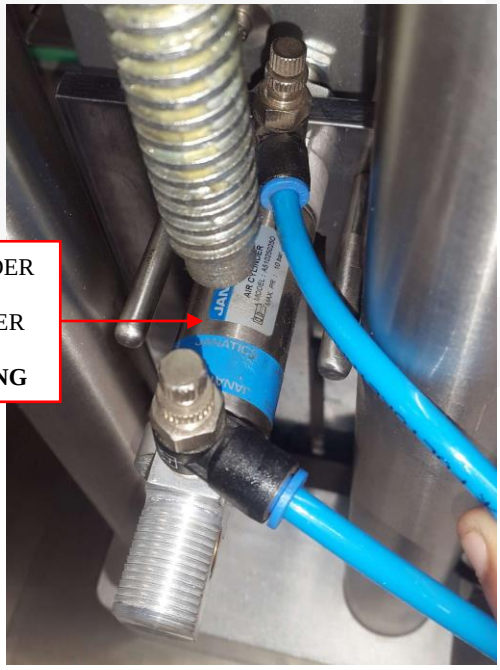
SR. No.	DESCRIPTION	QTY.	ASSY. / PART No.	REMARKS
26	LABEL PRESSING SPRING PATTI	1	101-03-07-01	-
25	PRESSURE ROLLER	2	101-03-04-13	OD-48
24	WASHER	4	101-03-24-00	OD-14, ID-6.5, THK-1
23	HEX NUT	4	101-03-23-00	M6
22	ALLAN CAP SCREW	1	101-03-22-00	M6 x 30 Lg.
21	ALLAN CAP SCREW	4	101-03-21-00	M6 x 15 Lg
20	ALLAN CAP SCREW	4	101-03-20-00	M6 x 25 Lg
19	ALLAN CAP SCREW	2	101-03-19-00	M6 x 60 Lg (H/F THDS)
18	ALLAN CAP SCREW	4	101-03-18-00	M6 x 50 Lg (H/F THDS)
17	CHEESE HEAD SCREW	5	101-03-17-00	M5 x 15 Lg
16	S.S. COVER PATTI	1	101-03-16-00	-
15	DRIVE COVER	1	101-03-15-00	-
14	SPACER	2	101-03-14-00	-
13	SPACER FLAT	1	101-03-13-00	-
12	IDLER ASSY.	1	101-03-12-00	-
11	TIMING BELT	2	101-03-11-00	-
10	TIMING PULLEY SET	1	101-03-10-00	-
9	ALLAN CAP SCREW	6	101-03-09-00	1/4 B.S.W. x 15 Lg
8	CLAMPING PLATE	3	101-03-08-00	-
7	PAPER BREAK ASSY.	1	101-03-07-00	-
6	GUIDE ROLLER ASSY.	1	101-03-06-00	-
5	REWINDING ROLLER ASSY	1	101-03-05-00	-
4.4	BRG. HOUSING FOR TRACTION ROLLER	1	101-03-04-02	-
4.3	BEARING FOR TRACTION ROLLER	1	101-03-04-08	-
4.2	SHAFT FOR TRACTION ROLLER	1	101-03-04-03	-
4.1	TRACTION ROLLER ONLY	1	101-03-04-01	-
4	TRACTION ROLLER ASSY	1	101-03-04-00	-
3	DRIVE MOTOR	1	101-03-03-00	-
2	REAR PLATE	1	101-03-02-00	-
1	FRONT PLATE (OR BOX TYPE)	1	101-03-01-00	-

PHOTO GALLERY

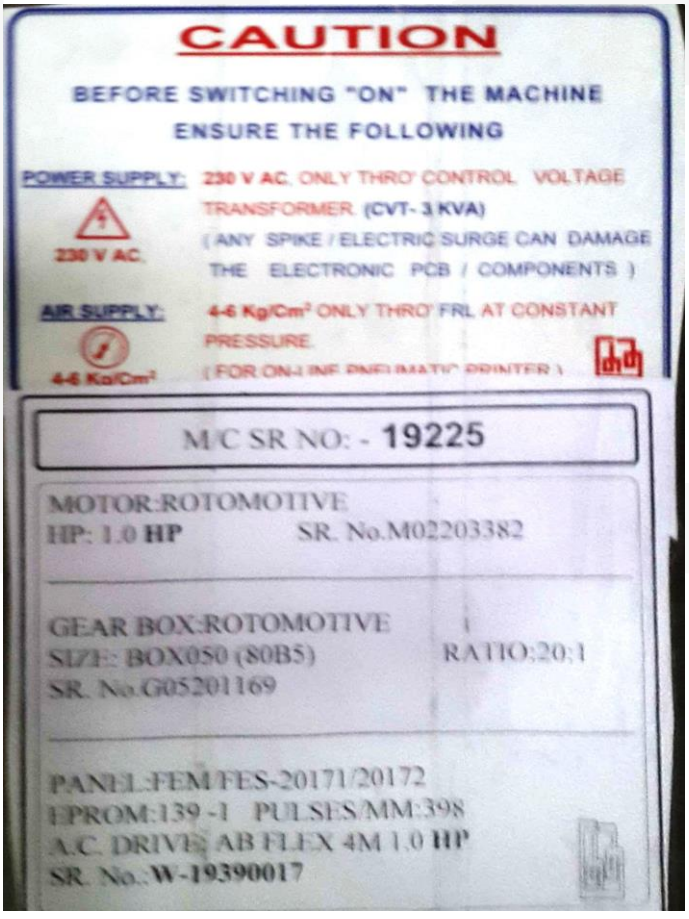





PNEUMATIC CYLINDER TRIGGER SENSOR (LEUZE MAKE)
PNEUMATIC OPERATED BOTTLE SUPPORTING ROLLER FOR SPOT WRAP-AROUND
LABEL RELEASE PLATE WITH NYLON BRUSH (CHANGE PART)
MOTORIZED SPOT WRAP AROUND RUBBER ROLLER


PNEUMATIC CYLINDER OF BOTTLE SUPPORTING ROLLER FOR **SPOT WRAP AROUND LABELLING**


MAHARSHI
TM
Ahmedabad - 380 059, INDIA.
E-mail : info@maharshi.com • sales@maharshi.com
Website : www.maharshi.com • www.labellingandlabels.com
Machine Sr. No. 19225
Mfg. Year : 2019-20


CAUTION
BEFORE SWITCHING "ON" THE MACHINE
ENSURE THE FOLLOWING
POWER SUPPLY:
230 V AC. ONLY THRO' CONTROL VOLTAGE TRANSFORMER (CVT- 3 KVA)
(ANY SPIKE / ELECTRIC SURGE CAN DAMAGE THE ELECTRONIC PCB / COMPONENTS)
230 V AC.
AIR SUPPLY:
4-6 Kg/Cm² ONLY THRO' FRL AT CONSTANT PRESSURE.
4-6 Kg/Cm²
M/C SR NO: - 19225
MOTOR:ROTOMOTIVE
HP: 1.0 HP
SR. No.M02203382
GEAR BOX:ROTOMOTIVE
SIZE: BOX050 (80B5)
RATIO:20:1
SR. No.G05201169
PANEL:FEMTES-20171/20172
EPROM:139 -1 PULSES/MM:398
A.C. DRIVE: AB FLEX 4M 1.0 HP
SR. No.:W-19390017

NOTES

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