

MELANGE
Semi Automatic Gyroscopic Mixer

Operating and Service Manual



User's Manual

Gyroscopic I Mixer

MELANGE

Version Phoenix 1.1 _ 15-08-2012

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1. SAFETY INSTRUCTIONS

- **Read safety instruction carefully and follow them for your own protection.**
This Product is use on a nominal 115 or 230 Volt circuit, as shown on the Name plate.
Connect the Product to an outlet having the same configuration as the Plug.
Wear safety Shoes when installing or relocating the machine.
Make sure the machine stands securely.
Keep your place clean & tidy. There is risk of accidents at untidy work place.
- **Close the Machine when it is not being used.**
Machine shall be connected to dedicated electrical circuit- No other device shall be connected to this circuit.
This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.
This product shall be connected to a dedicated electrical circuit – no other devices shall be connected to this circuit.
Removal of the plug from the outlet is the means for isolating the mixer from the power supply. Ensure that the mixer is installed with the plug easily accessible to the operator.
This product is designed to operate only when the door is closed. DO NOT ATTEMPT TO ALTER ELECTRICAL INTERLOCK MECHANISM
In case of emergency, press the Red Emergency Stop button.
- **Do not overload the machine. Check that the weight and dimension of the mixing can are suitable**
Use only undamaged and sturdy Mixing Can, If you don't, the container may burst.
Never lift large and heavy Can into the machine.
The mixing Can has to be closed completely.
- **Make sure that the mixing Can sits in central position on mixing table. Secure the container handle with rubber bands or adhesive tape.**
Take good care of the machine. Make sure that the moving parts move smoothly and without restriction. Follow the maintenance instruction.
- **Do not use high pressure equipment to clean the machine.**
Make sure that the safety devices work properly and are clean.
- **Do not use the machine if the door or the plastic shutter is damaged. If the shutter strip is broken, do not reach into the interior. There is risk of injury from rotating components.**
- **Do not start the machine with shutter open. Pull out power plug! There is high risk of accidents!**
Before switching on the machine after maintenance work, check that no spanners or setting tools are left inside the machine.
Examine the machine for signs of damage. Check regularly that all parts are in good working condition. Have repairs carried out only by the manufacturer or an approved specialist.

Trained and authorized personnel shall use this product.

2. INTRODUCTION

MELANGE is a revolutionary mixer, which is ideal for all your mixing requirements. MELANGE Mixer performs gyroscopic action, which enables in effective mixing, uniform blending and making homogeneous mixer.

The MELANGE mixer is specifically designed for point-of-sale color mixing applications as well as for semi-industrial applications.

This mixer is ideal for mixing small, medium, large cans up to 35kgs.

MELANGE is user friendly.

The MELANGE has been designed to meet the demands of the retail market.

The dimension of the machine makes it versatile and suitable for use in all environments.

The unique design results in reduced maintenance and in color mixing at the lowest cost per liter produced.

MELANGE is a rugged and reliable mixer which performance and design exhibits the qualities of a strong and sturdy engineering product and low maintenance.



Phoenix shall not be liable for any damage or injury incurred by non-compliance with these regulations, or by not taking the usual and accepted precautions in handing, operation or repair, even if not expressly stated in this manual.

3. TECHNICAL SPECIFICATIONS

| PERTICULAR | SPECIFICATION |
|--------------------------------------|--|
| MAXIMUM CAN WEIGHT | 40 KG |
| MAXIMUM CAN HEIGHT | 400 MM |
| MAXIMUM CAN DIAMETER | 240 MM |
| oval and multipla cans | YES |
| CAN LOADING | MANUAL |
| CAN MIXING (MIN-MAX) 1 LIT. | 1-5 NOS(Adaptor Disc) |
| CAN MIXING (MIN-MAX) 4 LIT. | 1 NO |
| CAN MIXING (MIN-MAX) 10 LIT. | 1 NO |
| CAN MIXING (MIN-MIX) 20 LIT. | 1 NO |
| MINIMUM CAN HEIGHT | 70 MM |
| GYRO OPEN (MAX) | 410 MM |
| GYRO CLOSE (MIN)) | 65 MM |
| GYRO RPM | 120 RPM |
| BOTTOM DISC RPM | 240 RPM |
| CLAMPING | MANUAL |
| VERTICAL POSITIONING | MANUAL MACHANICAL LOCK-PIVOT |
| MAIN MOTOR | 1 HP, SINGLE PHASE, 230/110Vac, 50/60 Hz. 1440 RPM |
| MAXIMUM NOISE LEVEL | 55 Db |
| POWER SUPPLY | 230V/50-60 Hz |
| POWER SUPPLY (OPTIONAL) | 110 V/60Hz |
| ELECTRONICS | BOARD |
| TIMER | MACHANICAL TIMER (5 Min.) |
| LOCKING DOOR DEVICE(Safety Door S/W) | AVAILABLE |
| GYROSCOPIC MOTION | CLOCKWISE |
| EMERGENCY SWITCH | AVAILABLE |
| TRANSPORT ROLLER(Custer Wheel) | AVAILABLE |
| MACHINE DIMENSION (WxDxH) | 815x690x1085 MM |
| PACKING DIMENSION (WxDxH) | 965x890x1315 MM |
| MACHINE NET WEIGHT | 155 KG |
| MACHINE GROSS WEIGHT | 175 KG |

| | |
|---------------------------|--|
| EN 292 Part 1 and 2: 1991 | Safety of Machinery – Basic concepts, general Principles for design |
| EN 418: 1992 | Safety of Machinery – Emergency stop equipment, Functional aspects |
| EN60204 Part 1: 1997 | Safety of machinery – Electrical equipment of Machines -Specifications for general requirements. |
| EN 954-1: 1996 | Safety of Machinery – Safety related parts of control Systems- Part 1: General principles for design |
| EN 1088: 1995 | Safety of machinery-Interlocking devices associated with guards. |
| EN 294: 1992 | Safety of machinery – Safety distances to prevent danger zones being reached by the upper limbs. |
| EN 953: 1997 | Safety of machines – Guards-General requirements for the design and construction of fixed and movable for coating materials. |
| PrEN 12757-1 | Mixing machinery for coating materials |

- Materials used by Phoenix to manufacture the machine doesn't undergo corrosions or deteriorations (They are compatible) with the paints which have to be mixed.

4. WARRANTY

LIMITED WARRANTY: Phoenix warrants each unit manufactured to be free of defects in material and workmanship for a period of twelve months. This warranty applies to single-shift operation and is counted from the date of initial start-up. It covers all defects arising from faulty material or workmanship.

Please Note that all warranty claims must be accompanied by the original delivery note or initial start – up report.

All essential warranty repair work must only be carried out by trained service engineers or by third parties authorization from Phoenix. Unauthorized repair may render the warranty null and void.

Please return any defective parts or machines carriage-paid to our factory. Phoenix reserves the rights to decide on whether cost-free parts replacement is applicable. Parts and labour covered by the warranty will be supplied free of charge. The warranty does not cover travel cost, expenses or possible overnight accommodation resulting from warranty repairs carried out off our premises.

Any other responsibility, with particular reference to damage claims, including foregone profit or other material losses on the part of the customer, is expressly excluded.

Warranty and liability claims for personal or material damage are excluded if attributable to one or more of the following causes.:

The part unit shall be returned with transportation charges prepaid. If the fault has been caused by misuse or abnormal conditions of operation, repairs will be billed at a normal cost. In this case, an estimate will be submitted before works is started, if requested.

Always include serial number in any correspondence concerning the part unit.

The warranty expires: Twelve month after date of invoicing

- Operation of the machine with defective safety or protection device.
- Incorrect operation of the machine, as defined in the operation instructions.
- Failure to observe the instruction in the operating manual with respect to set up, initial start up, operation and maintenance of the machine.
- Fault and damage caused by dirt or incorrect cleaning schedules, with particular reference to leaks and damaged Cans.
- Unauthorized structural modification to the machine.
- Incorrect monitoring of parts subject to wear and consumables.
- Unauthorized repairs or fitting of non original parts.
- Damage caused by the impact of foreign bodies or majeure force.

We reserve the right to make amendments as a result of on going advance in the technical field.

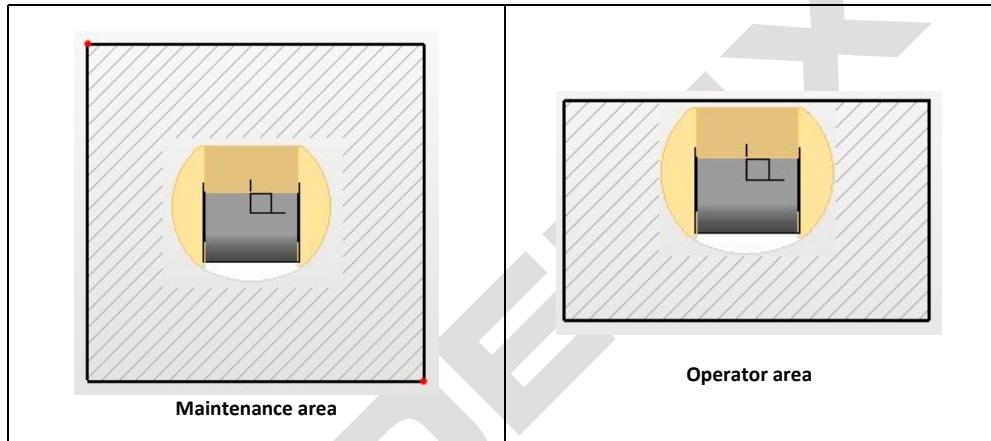
5. SAFETY SPECIFICATIONS

Compliance with safety requirements:

This mixer must be used and serviced by authorized and trained personnel only. Improper use or servicing may result in dangerous situations or accidents.

Risk to personnel is possible in two areas:

Operator area
Maintenance area



| | |
|--|---|
| | <p>THIS EQUIPMENT MUST BE GROUNDED. Attention!!!</p> <p>Connect this product to a dedicated electrical circuit – no other devices shall be connected to this circuit. Do not use extension cords to connect this product.</p> |
| | <p>Attention!!!</p> <p>Only trained personnel shall be permitted access to the electrical wiring within the machine. DO NOT USE THIS PRODUCT IF THE BACK PANEL IS NOT IN PLACE.</p> |

The machine is equipped with a power supply cable having the following specifications:

Length: 8 FT
Size: 14 AWG

The machine shall be connected to a dedicated, grounded circuit, protected by a 15 A circuit breaker. All wiring shall be in accordance with local codes

Important:

The power supply cable conductors are color-coded as follows:

| | | |
|-----------------------|---|----------------|
| GREEN or GREEN/YELLOW | — | GROUND |
| WHITE or BLUE/BLACK | — | NEUTRAL |
| BLACK or BROWN/RED | — | LINE |

Service safety rules:

1. Prior to performing any maintenance or inspection of the MELANGE disconnect the power plug from the electrical outlet in order to ensure that the MELANGE cannot start unexpectedly.
2. To prevent injuries to personnel ensure that all removable panels are in place and properly secured except for any necessary inspections or maintenance.
3. Do not disable or override any of the installed safety features such as the door lock system.
4. The MELANGE shall be installed in an environment conforming to the appropriate local regulations. A permit issued by the local authority may be required. Keep the number of paint cans in the immediate area of the machine to a minimum.
5. Do not store flammable materials or other materials inside the machine. The area in which the MELANGE is installed must be kept free of exposed flames, incandescent fixtures or other devices that might create sparks.
6. It is recommended that a ventilation system, guaranteed to maintain the concentration of dangerous vapors around electrical components at less than 30%, be installed.
7. When the MELANGE is not being used for a period of time (such as at the end of the work day), ensure that it is empty (no paint can inside), close the door and unplug the power plug from the outlet.
8. Ensure that all tools are removed from inside the machine after any maintenance work.

RESIDUAL RISK

Residual risks list for the user:

The MELANGE, and its operating and service instructions, have been developed giving careful consideration to the safety of the user and service technician. However, there are situations where risks can be reduced but not eliminated completely.

| RISK | PRECAUTION |
|---|---|
| Injury or crushing during loading and unloading operations. | Use protective gloves and safety shoes during loading and unloading operations. |
| Abrasions and injuries caused by sharp edges on the cans being used | Use protective gloves during loading and unloading operations. |
| Liquid leakage from the cans being used | Thoroughly clean the operator and maintenance areas. Keep these areas clean. |

Personal protection for user:

The MELANGE, when properly operated and maintain, presents minimal risk to the user. However, it is recommended that the user wear suitable protective equipment (safety glasses, safety shoes with non-slip soles and gloves), in particular when loading and unloading the mixer.

General danger situations:

There are no specifically identified hazard related to the operation and maintenance of the MELANGE (e.g. fire risk, issue or dispersion of dangerous products). However, it is recommended that a powder type fire extinguisher, suitable for electrical fires, be readily accessible.

Safety devices:

The machine is equipped with the following safety devices:

- Emergency Stop Button
- Door Lock and sensor

Emergency Stop Button:

For safety reasons, all users should know the location of the Emergency Stop button, and how to use it. The RED Emergency Stop push button is located on the Left Hand control panel on the top front of the mixer – to the left of the door. Pushing the button will immediately cut power to the motor control relay, stopping the motor. To reset the button and restore the mixer to normal operation mode, rotate the button clockwise.

Door Lock and sensor:

The MELANGE is equipped with a safety device which prevents start up of the mixing cycle when the door is in the open position. It also locks the door in the closed position during the mixing cycle.

6. INSTALLATION

INSTALLATION CONDITIONS:

Before unpacking and installing the MELANGE Mixer, please make sure of the following:

- The crate/packaging in which the MELANGE was shipped has not been damaged in any way.
- The floor on which the MELANGE is to be located is firm and level
- An electrical receptacle on a properly grounded, dedicated, 15 A, 115 or 230 V circuit is available in the immediate vicinity. The circuit shall be installed in accordance with local codes. The receptacle shall be of a configuration appropriate for the voltage and current rating of the circuit.

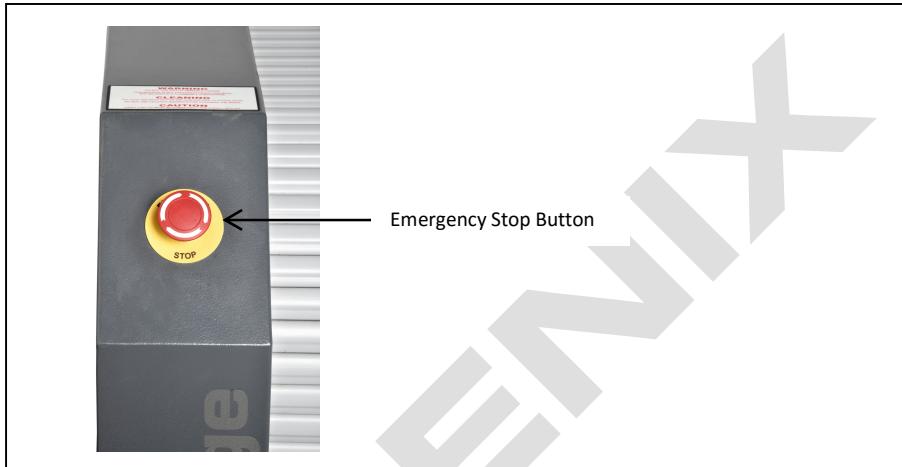
INSTALLATION:

It is recommended that, during the installation of the mixer, protective gloves be worn in order to prevent hand injuries.

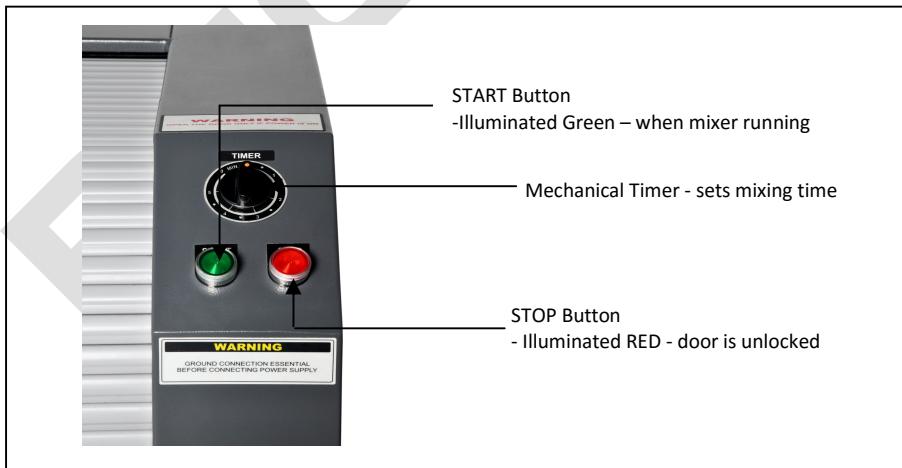
- Unpack the MELANGE Mixer.
- Ensure the machine has not been damaged in any way
- Position the mixer in the desired location. It is equipped with rollers to aid in positioning.
- Using the four leveling feet, level the machine, ensuring that all four feet are properly supporting the machine. Lock the leveling legs in place by tightening the jam nuts.

7. CONTROLS

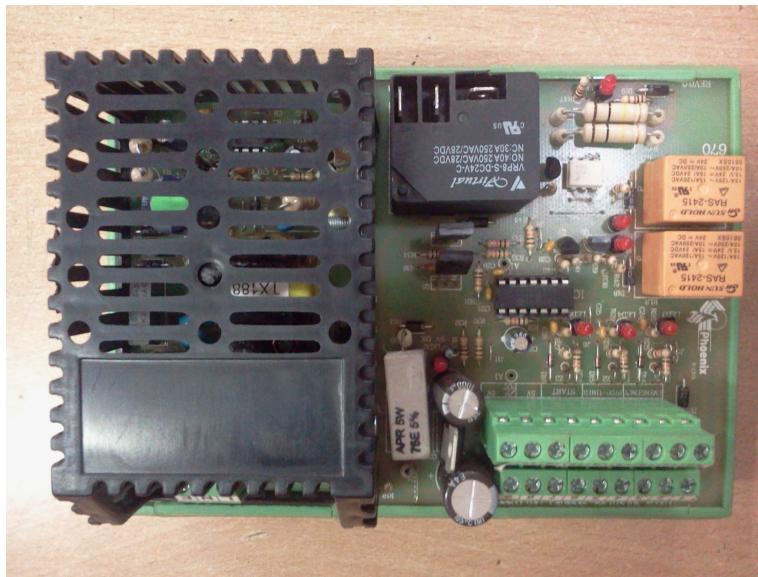
LEFT HAND CONTROL PANEL



RIGHT HAND CONTROL PANEL



LOGIC CARD AS670-101-ME



8. OPERATIONS

TURN ON MACHINE (Connect to power) :

Note: The door will not open until the MELANGE mixer is connected to the building power.

- Ensure the Emergency Stop button is engaged – push to engage if necessary
- Plug the mixer into the appropriate electrical receptacle. Ensure the circuit breaker on the left hand side the mixer, near the top rear corner, is ON.

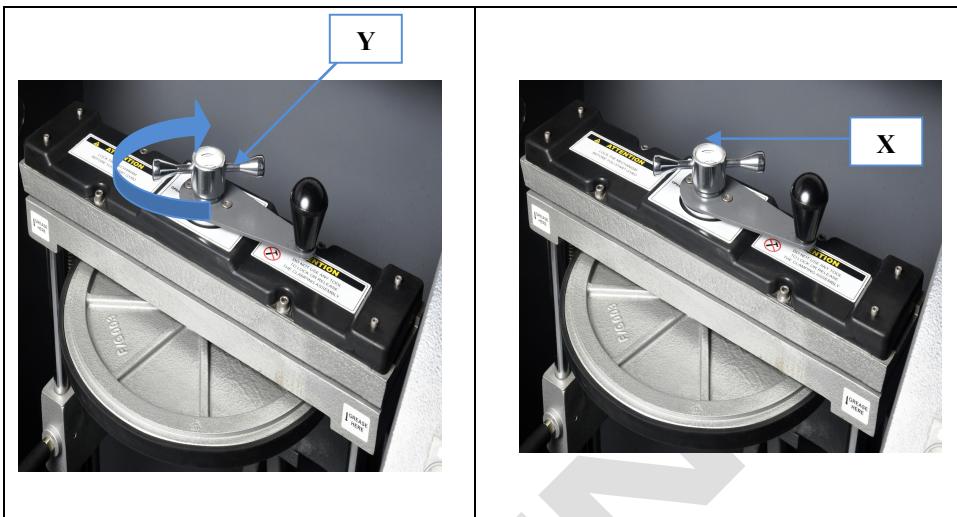
Mechanical Timer: The STOP button will light up RED For few second. Release the Emergency Stop button by turning it clockwise. The stop button will continuously illuminated RED and the door will unlock.

CAN LOADING:

1. Open the MELANGE Mixer door to its fully open position.
2. Ensure the Can Holder Assembly is in the vertical, top dead center (TDC) position, with the Clamp Mechanical Mechanism at the top, and locked in place. If it is not, use the two handles on the front of the Can Holder Assembly, to rotate it to the TDC position. Ensure the lock mechanism engages and the Can Holder Assembly is locked in place.
3. Referring to the illustrations, open the Can Clamping Plates as follows:



- Rotate Handle for spocket (X).
- Using the tapper knob, rotate the mechanism anti-clockwise to open the clamping plates.
- Position the can on the bottom Disc. Using the concentric rings on the bottom Disc as a guide, ensure the can is properly centered.



- U Rotate the mechanism in clockwise direction to securely clamp the can between the plates.
- Rotate the Lock Unlock Handle (Y) in clockwise direction to lock Handle for spocket.
- Close the door to the fully closed position.

Note: Do not force the door. If the Handle for Spocket (X) and Lock Unlock Handle (Y) is unclamped.

MIXING:

Mechanical Timer:

- Set the desired mix time by turning the knob on the mechanical timer to the appropriate position.
- Push the “START” button to start the mixing cycle.

The “START” button will be illuminated GREEN and the light on the “STOP” button will turn OFF. The door will lock, the Can Hold Assembly Lock will disengage and the Can Holder Assembly will spin for the set time to mix the paint.

Once the set time has expired, the “STOP” button will illuminate RED, the light in the “START” button will turn OFF and the Can Holder Assembly will come to a stop. The light in the “STOP” button staying on and the door will unlock.

To STOP the mixer during an emergency situation, push the Emergency Stop button. Once the machine has stopped, release the Emergency Stop button by turning it clockwise. The door will unlock.

USE THE EMERGENCY STOP BUTTON IN AN EMERGENCY SITUATION ONLY

Note: Always remove the can from the mixer after the mix cycle has been completed. Follow the UNLOADING instructions. Below.

UNLOADING THE CAN:

1. Open the MELANGE Mixer door to its fully open position.
2. Using the two handles on the front of the Can Holder Assembly, slowly rotate the Assembly to the vertical, top dead center (TDC) position, with the Clamp Mechanical Mechanism at the top. When it reaches this position the Clamp Assembly Lock will engage, locking it in place.

Note: If, for some reason, it is necessary to rotate the Can Holder Assembly after the lock has engaged, Pull Shutter and Rotate the assembly off the TDC position. The lock will remain in the disengaged position until the assembly is returned to the TDC position.



9. MAINTENANCE & TROUBLESHOOTING

Monthly Maintenance:

- 1) Apply grease on Guide shaft of EP 90 Lithium base
- 2) Apply grease also on Spine (Below the Bottom Disc)

Troubleshooting:

| PROBLEM | TROUBLE SHOOTING |
|--|--|
| Machine is not turning on | <ul style="list-style-type: none"> • Check the Mains supply. • Check MCB Position, it should be ON. • Check the Power supply • Check plug or lose wire. • Check motor belts. |
| Gyro vertical position not locked | <ul style="list-style-type: none"> • Check Pivot mechanism back side of the machine. • Check shutter end stripe whether it's broken or not. • Check slot at pulley. |
| Main Motor not running / working | <ul style="list-style-type: none"> • Check Emergency switch • Check Motor mechanism and • Motor capacitor. • Check supply on card. |
| Machine vibrates during operation | <ul style="list-style-type: none"> • Check the floor flatness. If the floor surface is not plain, then shift the Machine on a plain / flat surface. |
| Machine makes a loud noise after every revolution | <ul style="list-style-type: none"> • Check the foundation of the Motor. • Check the tension of the belt joining the Motor pulley and the Main Wheel. If found loose, adjust it to the proper tension. • Check whether the belt has worn out. • If yes, then replace the same with a new one. |
| Container clamped does not rotate along its axis even though the machine is rotating. | <ul style="list-style-type: none"> • Check the "V" belt for proper tension. • If the belt is found loose then replace the same with a new one. |
| Clamped container becomes loose | <ul style="list-style-type: none"> • Tight handle for sprocket properly. • Tight Lock / Unlock handle. |
| Aluminum Plates does not slide smoothly. | <ul style="list-style-type: none"> • Clean the Guide Shafts and apply the general-purpose grease |
| Machine is giving shock while in operation | <ul style="list-style-type: none"> • Check for proper grounding. If the earthing is not proper consult an Electrician. |
| Timer Failure | <ul style="list-style-type: none"> • Check Power ON • Rotate Timer Knob • Reset Knob |

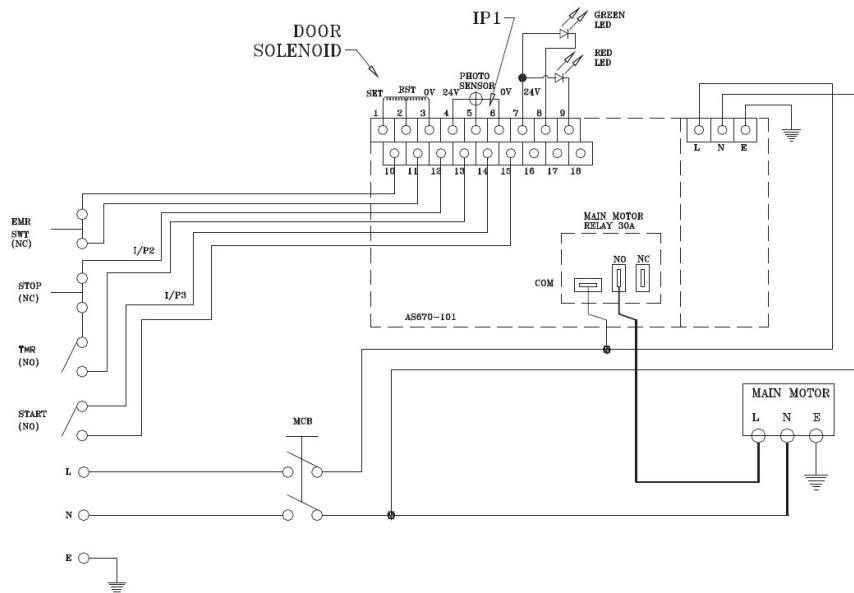
Note: Shutter will not open when the Power is OFF

| | |
|--|---|
| System Error : Emergency Press | <ul style="list-style-type: none"> • Turn the emergency push button to Clockwise direction. • Check the wire connection on the emergency push button. • Defective emergency push button cable. |
| System Error : Door Switch Faulty | <ul style="list-style-type: none"> • Check Position of Door. • Check the cable connection of Door Switch.(If its Photo sensor Check reflector light) • Check Reflector |

Adjusting Transmission Belts:

| | |
|---|---|
|  | <p>Remove Cover for Motor from the machine.</p> <p>Check belt tension, which should bend 5 – 10mm while pressed with fingers in its side.</p> <p>To Correct the tension, set the bolt with motor as shown in the picture.</p> <p>Check the belt by rotating the main pulley. The belt should not be worn.</p> <p>Put the back panel in its original position.</p> |
| Pivot Assembly  | <p>Remove back panel from the machine to view the Pivot assembly.</p> <p>It has been used to work as vertical position at Gyro assembly.</p> |

10. SCHEMATIC DIAGRAM



11. SPARE PART LIST

| Product Code | Description | Qty |
|---------------------|---|-----|
| Gyro | | |
| ME.G001 | Fix Pulley-ME | 1 |
| ME.G002 | Top Plate-ME | 1 |
| ME.G003 | Pulley 600 | 1 |
| ME.G004 | Guide Shaft ME | 4 |
| ME.G005 | Spocket 10 Teeth | 2 |
| ME.G006 | Spocket 25 Teeth | 1 |
| ME.G007 | Chain 3/8" x 960mm | 1 |
| ME.G008 | Pinion For Spocket | 1 |
| ME.G009 | Lock-Unlock Handle | 1 |
| ME.G010 | Lock Pin for Bearing | 2 |
| ME.G011 | Main Shaft -ME | 1 |
| ME.G012 | Screw Shaft- Spocket | 2 |
| ME.G013 | Drive Pulley for Bottom Disc-ME | 1 |
| ME.G014 | Bush-LH-Acme | 2 |
| ME.G015 | Bush-RH-Acme | 2 |
| ME.G016 | Roller Pivot | 1 |
| FG002 | C Arm | 1 |
| FG003 | Top Disc-Europe | 1 |
| FG005 | Bottom Disc-Europe | 1 |
| FG006 | Supporting Plate for Top & Bottom Disc | 2 |
| FG008 | Bottom Plate | 1 |
| FG016 | Sq. Plate for Drive Pulley | 1 |
| FG017 | Spline for Drive Pulley (Round Hollow) | 1 |
| FG018 | Spline for Drive Pulley/Bottom Disc(Hex Middle) | 1 |
| FG019 | Spline for Bottom Disc (Hex Solid) | 1 |
| FG040 | Spacer for Guide Pulley | 4 |
| FG045 | Guide Pulley -Metal | 2 |
| Frame | | |
| ME.F001 | Main Frame -ME | 1 |
| ME.F002 | Front Panel-ME | 1 |
| ME.F003 | Back Panel-ME | 1 |
| ME.F004 | Cover RH Plate-ME | 1 |
| ME.F005 | Cover LH Plate-ME | 1 |
| ME.F006 | Bracket for Solenoid ME | 1 |
| ME.F007 | Cover for Logic ME | 1 |
| ME.F008 | Handle for Spocket | 1 |
| ME.F009 | Arm For Guide Pulley | 1 |
| ME.F010 | Cover for Motor-ME | 1 |
| ME.F011 | Logic Board /Plate-300x140x2 | 1 |
| ME.F012 | Pivot | 1 |
| ME.F013 | Pivot Bracket Stand | 1 |
| ME.F014 | Pivot Bracket | 1 |
| ME.F015 | Pivot Cover | 1 |
| ME.F016 | Shutter Stopper-Pivot | 1 |
| ME.F017 | L Angle for Foundation-ME | 2 |
| FF020 | Nut for Foot | 4 |
| Product Code | | |
| Description | | |
| Qty | | |
| Electrical | | |
| FE.006 | Cable Gland/PG11 | 2 |
| FE.007 | Cable Tie/3.6 X150 MM | 10 |
| FE.012 | MCB 10KA 240/415VAC/10/2POLE/50Hz | 1 |
| FE.016 | Element'S1 - NO/Teknic | 1 |
| FE.017 | Push Button-Emergency/2AML4 | 1 |
| FE.019 | Element'S2-NC/Teknic | 2 |
| FE.025 | Motor-1HP/220V/50HZ/1PH/1425RPM | 1 |
| FE.027 | Photo Sensor / QS18VP6LV/10-30VDC | 1 |
| FE.031 | Connector Wn-3(Orange Cap) | 2 |
| FE.034 | Push Button- On/green LED/2ALRF3L(24V)Dc | 1 |
| FE.035 | Push Button-Off/Red LED/2ALRF4L(24V)D | 1 |
| FE.036 | Din Channel MCB Mounting | 1 |
| FE.040 | Cable/1.5 Sq M/3 Core-(Sucko Plug) | 1 |
| FE.041 | Knob For Mechanical Timer | 1 |
| FE.043 | End Lock SCKN | 2 |
| FE.071 | European Plug with Fuse | 1 |
| FE.072 | Cable Set-ME | 1 |
| FE.075 | Logic Card AS670-101-ME | 1 |
| FE.111 | Door Solenoid Magnet | 1 |
| FE.032 | Mechanical Timer- 5MIN D Shaft | 1 |
| Assembly | | |
| MEA.001 | Frame ME Assembly | 1 |
| MEA.002 | Frame ME Back Assembly | 1 |
| MEA.003 | Frame ME Bottom Assembly | 1 |
| MEA.004 | Gyro ME Assembly | 1 |
| MEA.005 | Gyro ME Assembly Step 1 | 1 |
| MEA.006 | Gyro ME Assembly Step 2 | 1 |
| MEA.007 | Gyro ME Assembly Step 3 | 1 |
| MEA.008 | Fix Pulley ME Assembly | 1 |
| MEA.009 | Top Plate ME Assembly | 1 |
| FA.018 | Bottom Plate Assembly | 1 |
| FA.005 | Supporting Plate Assembly | 1 |
| FA.017 | Top Disc Europe Assembly | 1 |
| FA.016 | Bottom Disc Europe Assembly | 1 |
| FA.006 | Spline Assembly | 1 |
| MEA.010 | Arm for Guide Pulley Assembly | 1 |
| MEA.011 | Pivot Assembly | 1 |
| MEA.012 | Pivot Bracket Assembly | 1 |
| MEA.013 | Control Panel Assembly | 1 |
| MEA.014 | Logic Card AS670 ME Assembly | 1 |
| MEA.015 | Motor ME Assembly | 1 |
| MEA.016 | Bracket for Solenoid ME Assembly Step 1 | 1 |
| MEA.017 | Bracket for Solenoid ME Assembly Step 2 | 1 |
| MEA.018 | MCB ME Assembly | 1 |
| MEA.019 | Shutter ME Assembly | 1 |
| MEA.020 | Frame ME Back Panel Side cover Assembly | 1 |

| Product Code | Description | Qty | Product Code | Description | Qty |
|-----------------|-------------------------------------|-----|--------------|--|-----|
| Hardware | | | | | |
| FIH004 | Bearing-6008 ZZ URB | 2 | FI0001 | Rubber Lining for Bottom Disc - Europe | 2 |
| FIH005 | Bearing-6010 ZZ | 1 | FI0004 | Handle-Black | 2 |
| FIH007 | Bearing-6205 ZZ | 2 | FI0005 | Black Cover for Top Plate | 1 |
| FIH008 | Bearing-6002 ZZ | 4 | FI0007 | Rubber Bid for Shutter Handle | 1 |
| FIH009 | Bearing-6000 ZZ | 2 | FI0009 | Shutter Grey - 615MM | 1 |
| FIH011 | Allen Bolt M10x40 (WZ) | 4 | FI0010 | Sticker-Front Panel-HERO(Dome) | 1 |
| FIH012 | Allen Bolt M10x25 (WZ) | 2 | FI0012 | Sticker-General Warning(4 Language) | 1 |
| FIH013 | Allen Bolt M8x25 SS | 8 | FI0013 | Sticker-Machine Sr.No. | 1 |
| FIH017 | Allen Bolt M4x16 SS | 8 | FI0014 | Sticker-Main Supply Cable-220V-50Hz/110V-60Hz | 1 |
| FIH019 | Allen Button Head M5x12 SS | 4 | FI0018 | Sticker-Warning-Open the Door Only If Power on | 1 |
| FIH021 | Allen CSK M10x25 WZ | 1 | FI0020 | Sticker-Warning of Machine Earthed | 1 |
| FIH025 | Hex Bolt M8x25 - WZ Kg | 10 | FI0021 | Sticker-Warning of Earth Leakage 1.50 MA | 1 |
| FIH026 | Hex Bolt M6x20 - (WZ) | 12 | FI0023 | Sticker-Warning Ground Connection essential | 1 |
| FIH027 | Hex Bolt M3x25 SS | 4 | FI0024 | Sticker-Door will not open until | 1 |
| FIH028 | Hex Bolt M3x8 - SS | 8 | FI0026 | Sticker-MCB | 1 |
| FIH029 | Hex Nut M16 - (WZ) Kg | 4 | FI0027 | Adhesive Solution Fevicol SR 998 | 0 |
| FIH031 | Nylock Nut M10 | 2 | FI0028 | Reinforce Bar 8MM/ 545MM | 5 |
| FIH032 | Hex Nut M8 - (WZ) Kg | 10 | FI0034 | Castor Wheel 2" Puff Castor | 3 |
| FIH033 | Hex Nut M6 - SS | 5 | FI0035 | Adjustable Foot M16 X 60 | 4 |
| FIH035 | Hex Nut M3 - SS | 6 | FI0039 | Door Handle | 1 |
| FIH037 | Grub Screw M8x10 | 1 | FI0044 | Sticker-Door Solenoid | 1 |
| FIH039 | Grub Screw M6x15 | 1 | FI0046 | Acrylic Sheet 50 X 40 mm | 1 |
| FIH042 | Plain Washer 10x38x3 | 2 | FI0074 | Sticker-Melange | 1 |
| FIH043 | Plain Washer 8x20x3 | 24 | FI0075 | Sticker- Attention- Do not Rines | 1 |
| FIH045 | Plain Washer 6x25x2 spli mistak | 1 | FI0076 | Sticker-Attention Do not use any tool | 1 |
| FIH046 | Plain Washer 6x13x2 Kg | 20 | FI0077 | Sticker-Lock -Unlock | 1 |
| FIH047 | Plain Washer 3x8x1 | 12 | FI0078 | Sticker-Open-Close | 1 |
| FIH049 | Spring Washer M8 Sq | 14 | FI0079 | Sticker-Schematic Diagram -ME | 1 |
| FIH050 | Crocodial Washer M8 | 6 | FI0080 | Operating and Servicing Manual-ME | 1 |
| FIH052 | Sim Washer 20x22x0.5 | 2 | FI0081 | Backelite Ball Knob M8 | 1 |
| FIH053 | Sim Washer 15x22x0.5 | 12 | FI0082 | Acrylic Sheet-115x170 | 1 |
| FIH064 | Internal Circlip 50 | 2 | FI0083 | Telescopic Slider-6" | 2 |
| FIH066 | Internal Circlip 30 | 4 | FI0084 | Knob 5mm | 2 |
| FIH067 | Internal Circlip 26 | 2 | FI0107 | Handle DHP94 | 2 |
| FIH068 | External Circlip 50 | 2 | FI0127 | Motor Slider | 1 |
| FIH069 | External Circlip 32 SPL | 2 | FI0133 | Motor Pulley /A- 42mm | 1 |
| FIH070 | External Circlip 25 | 1 | FI0135 | Sticker- Attention- Lock the mechanism | 2 |
| FIH071 | External Circlip 15 | 4 | FI0006 | Shutter Handle/43628 / 597 MM | 1 |
| FIH076 | Key 6x6x38 (BER) | 1 | FI0018 | Sticker-Push Button Yellow | 1 |
| FIH082 | Hex Bolt M10x16-(WZ) | 1 | FI0041 | Sticker Timer 5Min-Alu | 1 |
| FIH083 | Sim Washer 12.2x18x0.5 | 8 | | | |
| FIH085 | Allen Bolt M6x15 SS | 7 | | | |
| FIH086 | Allen Bolt M8x15 SS | 1 | | | |
| FIH087 | Sim Washer 25.5x34x0.5 | 3 | | | |
| FIH091 | Bearing-6202 ZZ | 1 | | | |
| FIH093 | Allen CSK M5x15 | 3 | | | |
| FIH094 | Allen CSK M8x25 | 1 | | | |
| FIH100 | Hex Bolt 5/16"x20- (WZ) Kg | 2 | | | |
| FIH107 | Hex Bolt M8x40 - (WZ) Kg | 6 | | | |
| FIH114 | Internal Circlip 35 | 1 | | | |
| FIH118 | Nylock Nut M5 | 5 | | | |
| FIH119 | Nylock Nut M6 | 5 | | | |
| FIH120 | Nylock Nut M8 | 16 | | | |
| FIH154 | Allen CSK M6x12 | 2 | | | |
| FIH171 | Key 4x4x36 | 1 | | | |
| FIH181 | Allen Bolt M5x12 - SS | 30 | | | |
| FIH296 | V Belt A-84/86 | 1 | | | |
| FIH297 | V Belt-SPZ 1600 PB-Poly F Plus/1637 | 1 | | | |
| FIH298 | Bearing 6800 ZZ | 2 | | | |
| FIH299 | Bearing 1680HH ZZ | 2 | | | |
| FIH303 | Coch bolt-2.5" | 2 | | | |
| FIH304 | Spring Hook-10x8.4x43 | 1 | | | |
| FIH305 | Allen Bolt 6x25 half thread | 1 | | | |

THANK YOU

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