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QUICK-MIX^{plus}

SERVICE MANUAL

Class I Group D



243584



Quick-Link
WORLD-WIDE PARTS
S Y S T E M

Fillon
Technologies™



**BEFORE ANY INTERVENTION:
DO WEAR GLOVES
DO WEAR GLASSES
ALWAYS DISCONNECT FROM ELECTRICAL SOURCE
OPEN FLAME PROHIBITED
DO NOT SMOKE**

SAFETY INSTRUCTIONS

1. Install the mix-unit on a level and stable surface away from dampness or nearby heat sources.
2. Mixing machines must be wired by a fully qualified licensed electrician in accordance with Federal, State and Local regulations to qualify for compliance in hazardous locations (Class 1, Division 1, and Group D).
3. Never attempt to repair or modify an Explosion-proof motor or digital timer component.
4. Protective Drive shaft covers must be kept in place at all times while operating the machine.
5. For stability purposes place the gallon can shelves on the lower levels.
6. Make certain that the mixing lids are properly secured onto the cans before placing them into the mix-unit.
7. Don't overreach when placing cans in or removing them from the mix-unit.
8. Never use water to wash down the machine.
9. Always bolt the paint mixing unit to the floor and wall for stability purposes.

WARNING

10. EXPLOSION-HAZARD DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCH OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS BEFORE ATTEMPTING REPAIRS.

FILLON TECHNOLOGIES assumes no responsibility or liability for accidents or actions taken beyond the scope of these safety instructions.



**CAUTION
SHEET METAL IS SHARP
WEAR GLOVES**



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INSTALLATION

GENERAL RECOMMENDATIONS

Install your equipment in a ventilated area and at an ambient temperature +5°C to +40°C
 Allow a two foot clearance behind the mixing machine during assembly to facilitate electrical corrections.

The maximum configuration for Quick-Mix Plus machines is 7 mixing shelves with 3 gallon shelves max for model QMX+220 and 6 gallon shelves max for model QMX+150.

For stability purposes, place the larger gallon can shelves on the lower levels.

ALWAYS USE GLOVES AND GLASSES DURING THE ASSEMBLY.

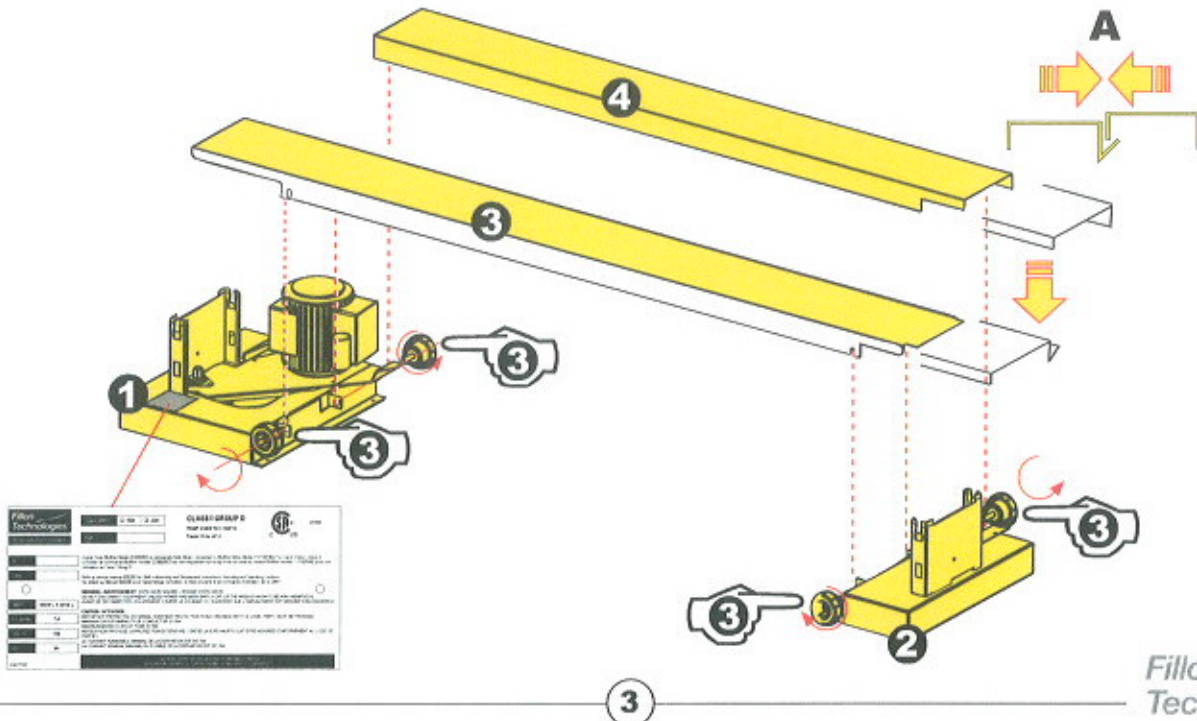
ASSEMBLY STEPS

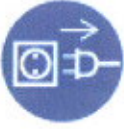
A. QUICK-MIX PLUS BASE UNIT AND MOTOR MODULE

Motor Module : Explosion-proof motor block,
 Right Foot
 Bag of Accessories.

Base Unit : Front and Rear Alu/zinc floor trays.

1. Place the motor module (LH foot and motor) at the desired location allowing a two foot clearance behind the machine for motor connections.
2. Put the Right foot in-line with the motor module. The distance must correspond to the length of the front Alu/zinc floor tray.
3. Mount the front floor tray between the motor module and right foot, which must be adjusted to fit correctly, and then tighten the 4 serrated rollers.
4. Mount the rear floor tray behind the front making sure that there's no space between both sections (see detail A).





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B. INSTALLING THE FIRST MIX-SHELF

1. Begin by mounting the left side panel onto the sleeve of the motor module receptacle by pressing it firmly into position taking care that the arrows are facing up.

TECH TIP : It might be necessary to maneuver the drive shafts slightly to ensure proper alignment (see detail A).

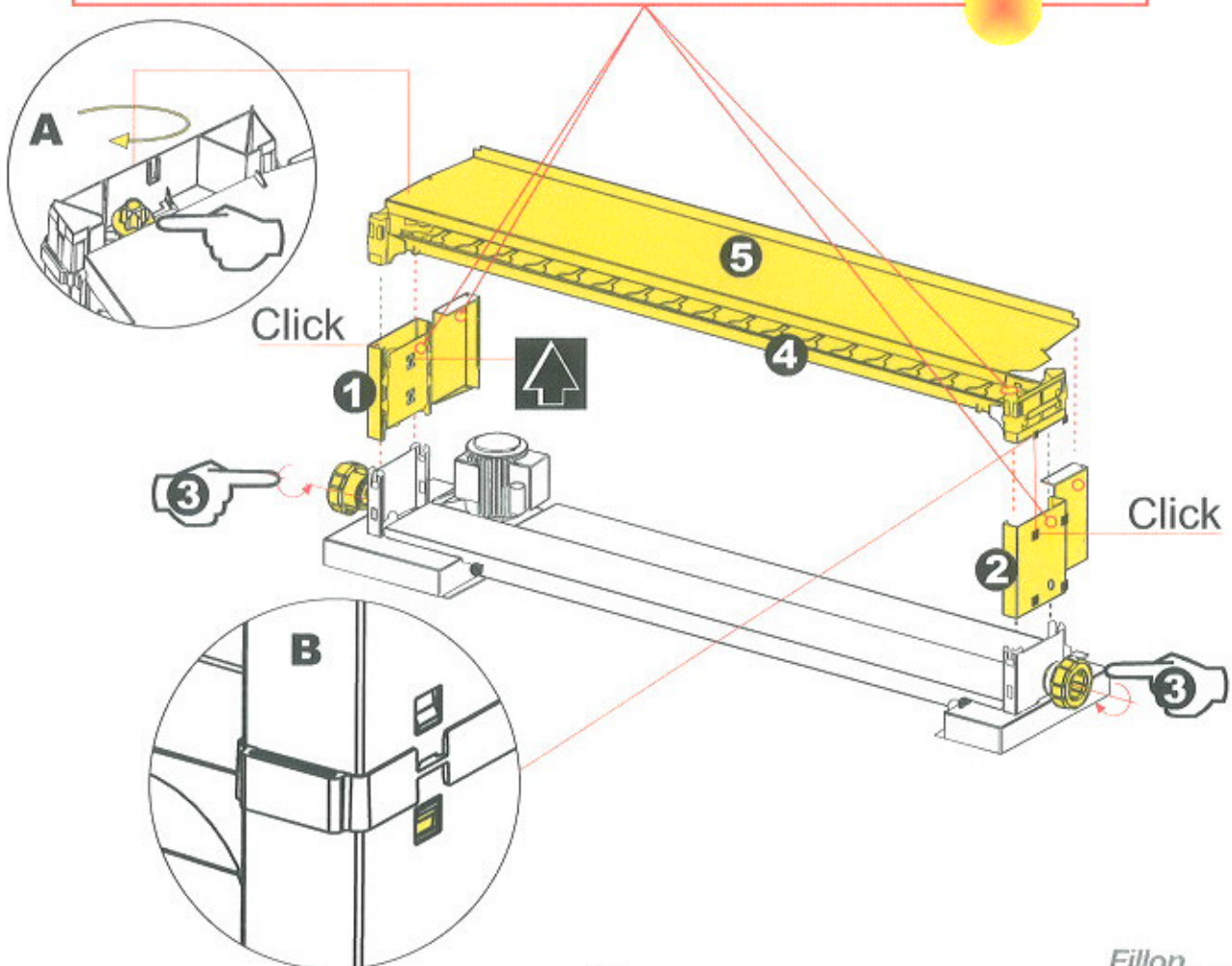
2. Next, mount the right side panel onto the right foot so that it's aligned properly.

3. Fit both serrated rollers (packaged in the accessory bag) into their respective holes for each side panel and tighten securely.

4. Place the first mechanical shelf onto both side panels ends and press down firmly until the clips meet the square orifices proper and 'click' into place (see detail B).

5. Align the cover tray on top of the mechanical shelf starting from the right and working left.

The Gallon shelves and side panels have a yellow sticker on the inside in order to distinguish them from the Quart shelf parts.





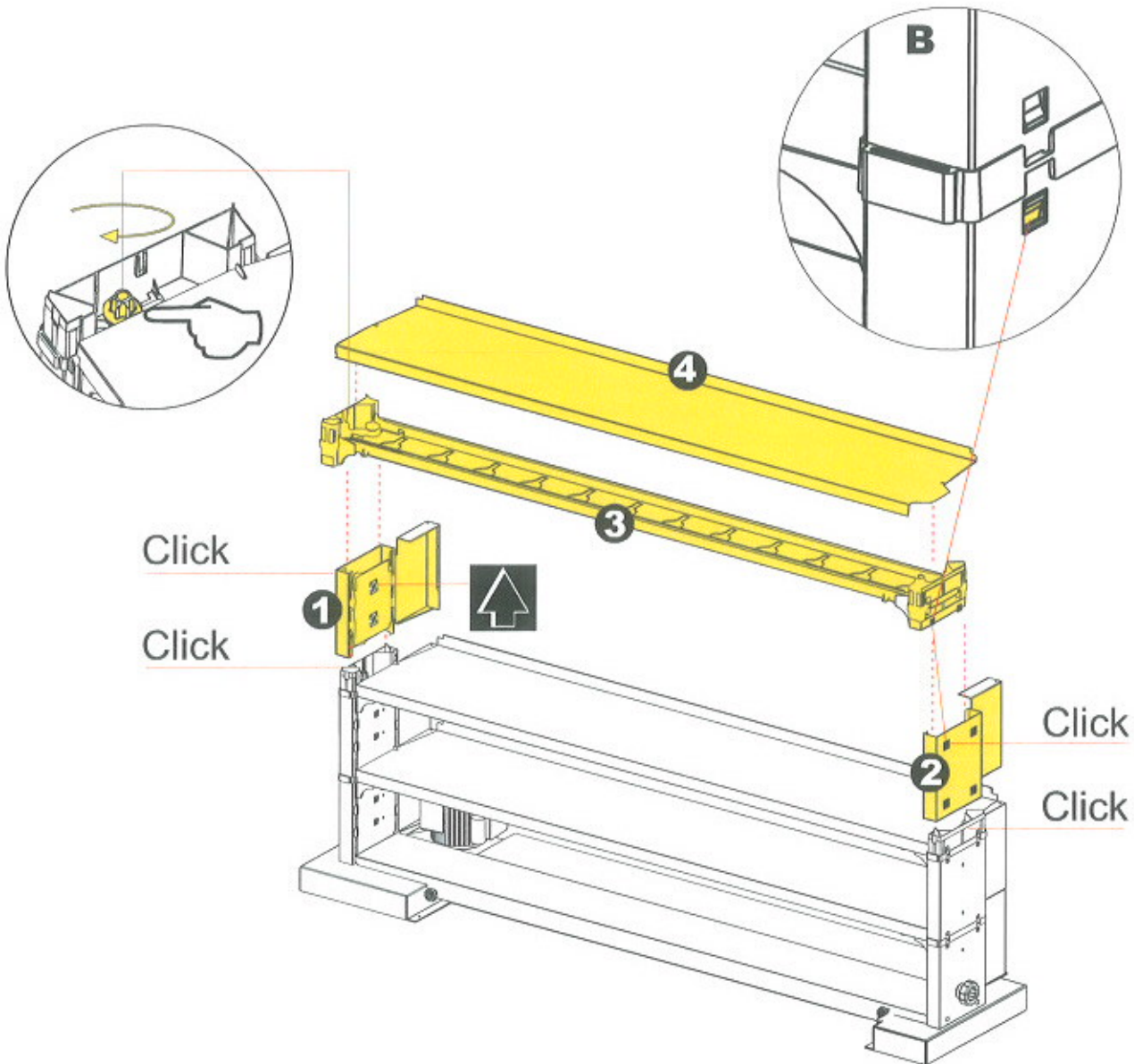
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C. INSTALLING THE REMAINING MIX SHELVES

Proceed in the same manner as the first mix shelf with the exception of the serrated rollers.

TECH TIP :

Be patient while aligning each side panel to ensure proper fitting success.





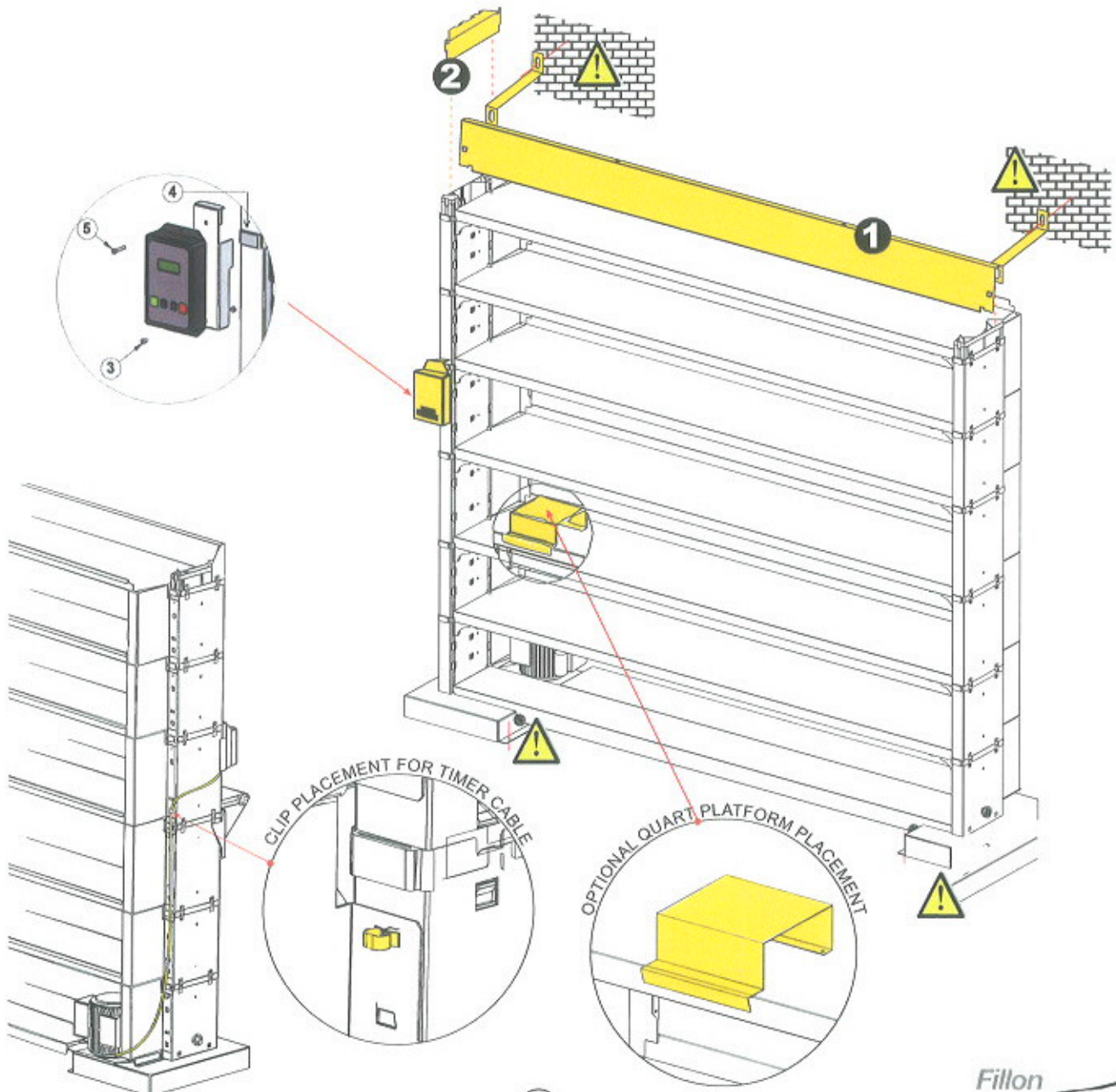
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D. FINAL ASSEMBLIES

1. Mount the header board (1) into the fittings on top of the highest mix-shelf.
2. Align the security cover (2) into place (found in the accessories bag) on top of left side panel.
3. Choose a desired height for the digital timer then align the timer bracket with the appropriate plastic shelf divider on the left hand side (see illustration).
4. Plug the male end of the digital timer bracket into the female receptacle of the motor then secure the cable onto the back of the left side panels using the white plastic clips provided.



For stability reason bolt the machine to the ground using the appropriate bolt according to your floor material and use the wall brackets provided (accessory bag) to fix the machine to the wall using the appropriate bolt.





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ELECTRICAL INSTALLATION

Installations must be carried-out by a qualified licensed electrician in accordance with safety and fire regulations for hazardous location usage.

Digital Timer Bluffton Model 223850903 is intrinsically Safe When Connected To Bluffton Motor Model 1121007462 For Use in Class I Group D

Paint mixing equipment must be installed in areas specifically zoned for hazardous location Class I Group D.

Site installation is subject to acceptance to the local Inspection Authority having jurisdiction

CAUTION

QUICK-MIX PLUS MACHINES ARE EQUIPPED WITH A SINGLE-PHASE, EXPLOSION-PROOF 550W MOTOR (120V/60HZ) AND INTRINSICALLY SAFE DIGITAL TIMER THAT COMPLIES WITH UL AND CSA STANDARDS (CLASS I, DIVISION I AND GROUP D) FOR USAGE IN HAZARDOUS LOCATIONS.

MOTOR NOT PROTECTED. EXTERNAL OVERHEAT PROTECTION IN ACCORDANCE WITH CE CODE, PART I, MUST BE PROVIDED.

MINIMUM CIRCUIT AMPACITY OF CONDUCTOR IS 15A

MAXIMUM BRANCH CIRCUIT FUSE IS 15A

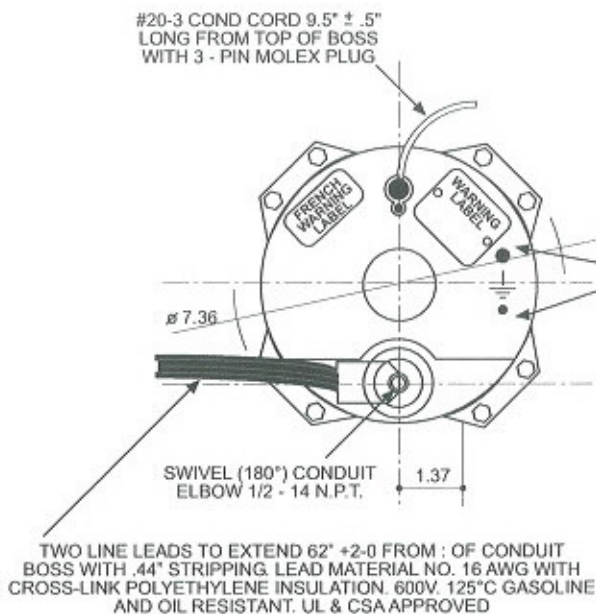
NEVER ATTEMPT TO REPAIR OR MODIFY A MOTOR/TIMER COMPONENT, CONTACT FILLON TECHNOLOGIES FOR TECHNICAL ASSISTANCE OR REPLACEMENTS AT 800-777-1583.

FILLON ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ACTIONS TAKEN BEYOND THE SCOPE OF THIS WARNING.

FIRING ORDER

C.W. ROTATION

8 & 2, # 5 & 1



The motor frame must be securely and adequately grounded to the equipment grounding conductor by using the grounding cord, green screw, or green wire provided.

The grounding wire must be no smaller than the supply wiring. Refer to NEC Article 250 (Grounding) for additional information.

All wiring should be done by a qualified electrician.

EXTERNAL CONNECTIONS

WHITE (neutral)

BLACK

LINE



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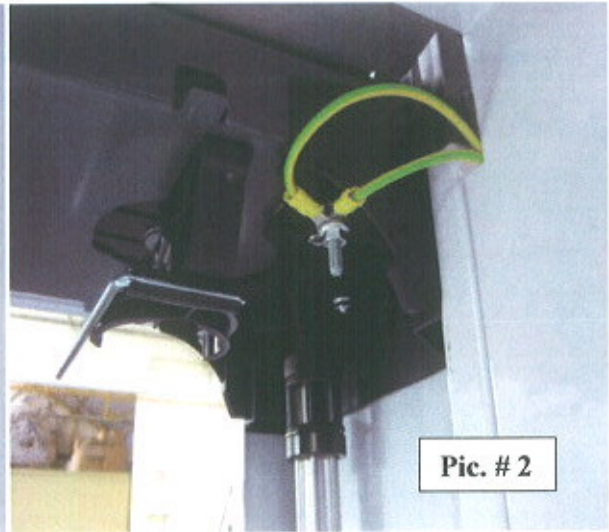
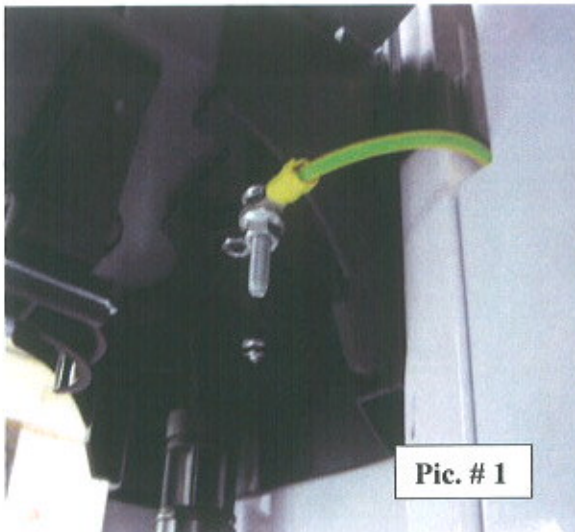
BONDING AND GROUNDING THE QUICKMIX PLUS MACHINE

In respect with the law and for your security, paint mixing equipment must be securely and adequately grounded. Please follow the instructions to ground your equipment:

A. Use the yellow-green cULus bonding cables provided to connect each shelf together.



- i) Start from top shelf.
Insert one ring terminal as shown in picture #1. Bolt the nut. Pass the cable from the inside to the outside of the machine through the side panel opening.
- ii) Pass the cable coming from top shelf from the outside to the inside of the machine in order to fix the cable to the next shelf.
- iii) Insert the ring terminal of the cable coming from top shelf.
- iv) Take a new cable and insert one ring terminal side. Bolt the nut. Pass the cable through the side panel opening.
- v) Continue to connect each shelf to each other up to the bottom shelf by following steps ii) to iv).





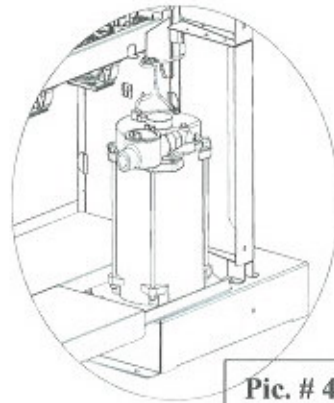
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- B. Use the provided green screw to ground the machine to the motor. Bolt the ring terminal of the bonding cable coming from the upper shelf as shown in picture #3



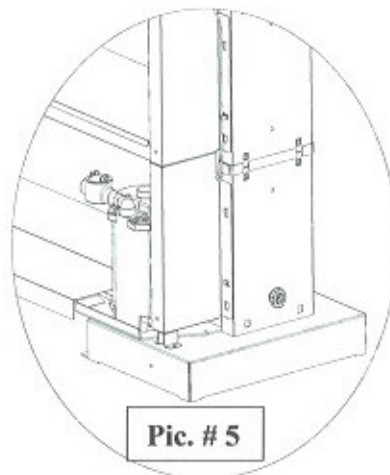
Pic. # 3

- C. In respect with the electrical installation of the QUICKMIX PLUS machine in hazardous locations; the motor is electrically plugged to the main by using the hazardous locations junction box already attached on the motor (see pic.#4). This junction box will also insure the grounding of the equipment. Installation must be carried out by a qualified licensed electrician.



Pic. # 4

- D. Use the cable attachments provided to secure the bonding cables to the side panel as shown in picture #5



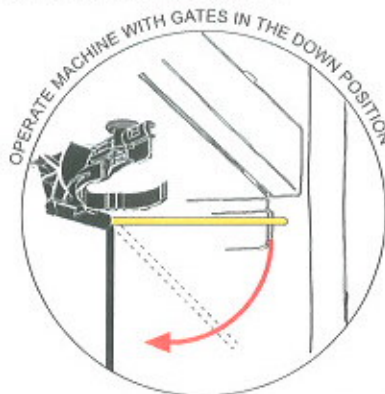
Pic. # 5



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OPERATING INSTRUCTIONS

Pull down the gates on all the mixing can positions.



TECH TIP: Test the machine without cans prior to beginning operation to ensure that the driving devices are turning in a clockwise rotation. If not, press STOP on the digital timer, shut the mains power off, call Fillon Technologies technical assistance at 800-777-1583.

This sticker shows the proper rotation direction

	WARNING SHUT POWER OFF FOR ANY ADJUSTMENTS OR REPAIRS.	WARNING This system is equipped with an explosion proof motor (115 Volt 60 Hz single phase) that is UL and CSA approved for Class I, Division 1, Group D hazardous locations. For Safe operation In Hazardous Areas: 1) All power connections must be made by qualified electrician and meet all local, state and federal code. 2) New system installations require inspection by a local Fire Marshal. 3) At no time should any attempt be made to repair or alter the motor in any way. 4) Replacement motor assemblies for this system must be obtained by calling Fillon Technologies at 1-800-777-1583. All replacement motors must be connected by a qualified electrician to meet all applicable code.
	CAUTION During the first operating cycle, make sure that the mixing lid shafts rotate in a clockwise direction to avoid any product damage. If shaft rotates counterclockwise do not use the machine and call Fillon Technologies customer service at 1-800-777-1583	

Use only mixing lids equipped with Quick-Link ("QL") drive forks fitted securely in position.

The digital timer is pre-set for 15-minutes of continuous operation. To add or subtract minutes, press stop, then use the (-) or (+) buttons to adjust to the desired length of time, and restart.

Containers can be removed or replaced during the mix cycle with proper care and caution. Make certain that the gates are in the 'down' position during operation and remove/replace dented cans as encountered.

After powering the machine, containers will turn slightly until the pouring lid spouts are aligned against the resistance of the gates. This is normal and quite safe.

Mix-shelf pulleys are equipped with quick-release mechanism designed to activate a 'clicking' sound should a lid paddle meet resistance from a dented container. If this should happen, replace the container at the earliest opportunity.

To access containers placed in back-storage, lift and lock the gate into the 'up' position, then remove or replace containers as needed.

PLEASE MAKE SURE THAT OPERATORS ARE TRAINED AND FAMILIAR WITH THE EQUIPMENT WARNINGS BEFORE USING.



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REPAIRS AND ADJUSTMENTS

GENERAL RECOMMENDATIONS

ALWAYS DISCONNECT THE POWER FROM THE CIRCUIT BOARD PRIOR BEFORE ATTEMPTING A REPAIR OR ADJUSTMENT. FILLON TECHNOLOGIES ASSUMES NO RESPONSIBILITY FOR DAMAGES OR INJURIES RESULTING FROM FAILURE TO OBSERVE THE SAFETY PRECAUTIONS.

To perform a routine service check to keep the equipment operating at an optimum performance level. This includes checking the condition and tension of the belts and all wearable components. Spare parts can be ordered directly from Fillon Technologies at 800-777-1583.

Whenever possible, wipe paint runs from the mix shelves and agitator lids with a mild thinner. Dust particles can be removed with a damp cloth. **NEVER** wash-down the mix-unit with running water...

QUICK-REFERENCE TROUBLE-SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTIONS
Motor won't turn	No current Timer not connected Internal problem	Check power supply 120V/60Hz Check connection to motor Do not open- call Fillon Technologies
Machine won't turn	Large pulley/ drive block not engaged	Repair or replace if necessary
Drive mechanisms Turning backwards	Re-check wiring configuration	See Electrical Installations
Mix-shelf won't turn	Motor not turning Drive shaft not engaged Worn or disconnected motor pulley Broken motor or shelf belt Broken Quick-Link Assembly interfering with belt rotation Shelf drive block seized Loose belt tension regulator	See above Re-fit drive shaft properly into drive block Replace or reconnect as needed Check condition of belts replace if necessary Replace component / re-align belt. Replace left shelf divider Re-tighten to proper tension
Mixing Lid paddle won't turn	Dented container Broken QL drive fork Lid not fitted properly on container Worn Quick-Link Assembly	Transfer paint product to a new can Replace drive fork Release lid from can and re-align Replace Assembly
Noisy machine	Motor operating in wrong direction Worn or seized component Interference from component or lower shelf cover tray	See Electrical Installations Identify and replace Check/ re-align



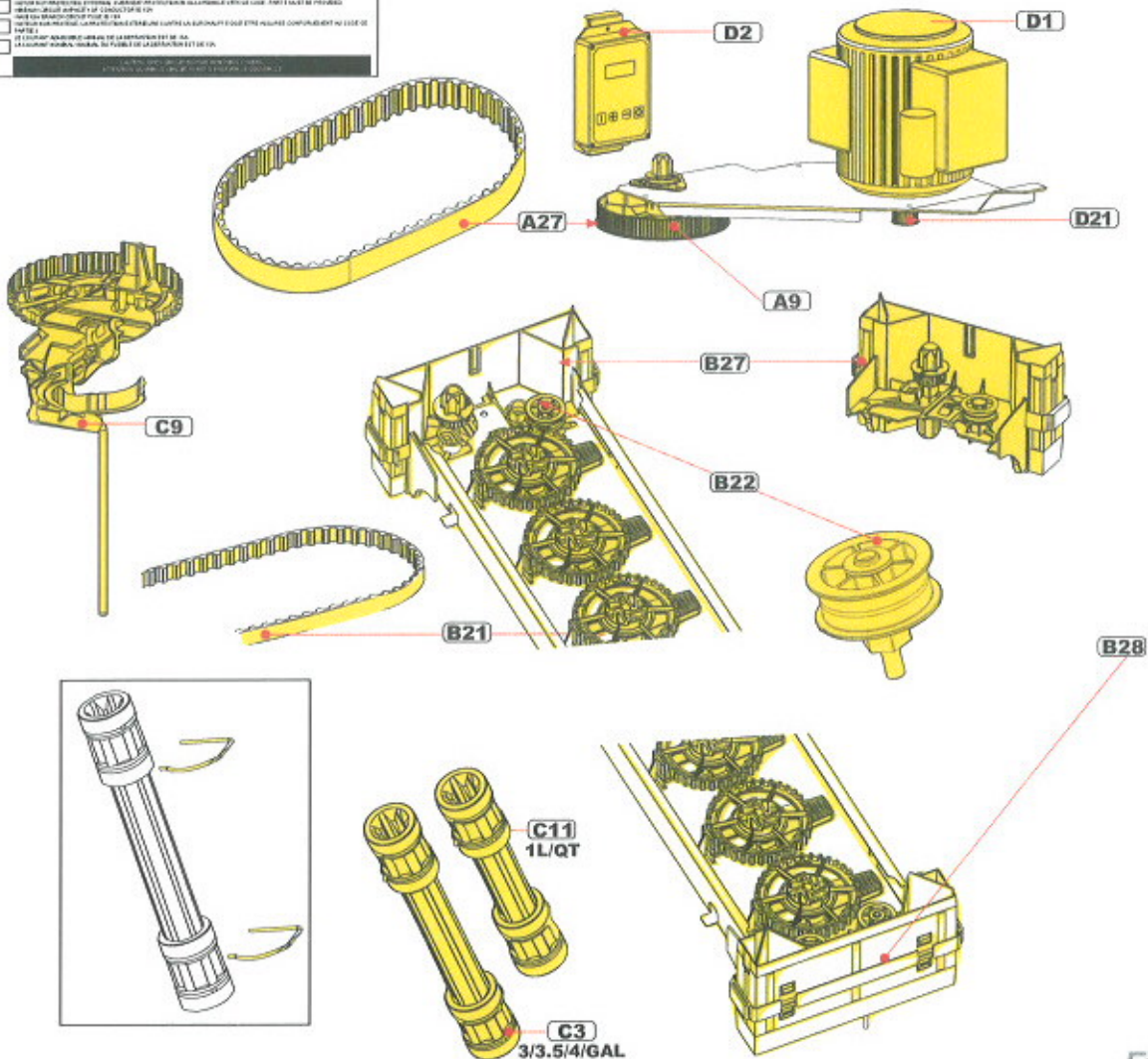
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SPARE PARTS

NAME.....	ITEM
Main drive block.....	A9
Motor belt.....	A27
Mechanical shelves drive belt 10T10 L2230 T100.....	B21
Mechanical shelves drive belt 10T10 L3190 T150.....	B21
Mechanical shelves drive belt 10T10 L4590 T220.....	B21
Belt tension regulator.....	B22
Left divider block.....	B27
Right divider block.....	B28
Quick Link block.....	C9
Complete drive shaft He197/0.5L*QT.....	C11
Complete drive shaft He265/3L*3.5L*4L*GAL.....	C3
Timer control box	D2
FRANKLIN motor 56C 3/4HP 115V 60Hz (Rot CCW) withfitting.....	D1
Motor pulley with screw and washer.....	D21



TO ORDER A SPARE PART, mention all the information provided on the manufacturer's identification plate, the part item number given on the manual, and the quantity.





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DISMANTLING INSTRUCTIONS

GENERAL RECOMMENDATIONS

IMPORTANT: SHUT THE MAINS POWER OFF, THEN DISCONNECT THE MOTOR FROM THE CIRCUIT, DO WEAR GLOVES AND GLASSES, UNPLUG THE TIMER BEFORE COMMENCING DISASSEMBLY.

You'll need a medium-length flat-head screwdriver and a small bag or box to keep miscellaneous small components from getting misplaced.

Clear a reasonably good-sized work area to place components on prior to re-packaging.

If the machine is being shipped, a pallet size of at least 91" x 44" is needed for safe handling.

DISASSEMBLING STEPS

PRE-PACK

- A. Remove all containers and quart/liter platforms from mix-shelves.
- B. Wipe paint runs and/or dust particles from the shelves if desired (see Repairs and Adjustments for more information).
- C. Lift and lock all gates into position to avoid breakage during moving.
- D. Remove wall brackets from machine/wall. Unbolt machine from the floor.
- E. Repack the digital timer and cable clips together in a bag or small box to avoid losing.
- F. Remove the header board and safety cover from the top of the left shelf divider.

MIXING SHELVES

- A. Begin by removing the Alu/zinc cover tray from the topmost mix-shelf.
- B. Remove the top mechanical shelf:
 - On one side of the machine press the two clips in the square orifices and then carefully lift shelf divider up
 - Using both hands, pull up the shelf divider and put it partly to one side of the side panel
 - Repeat process on the opposite machine side. The mechanical shelf should be free from both side panels below now.
 - Lift the shelf completely off and place it in free work area for re-packing later.
 - Remove both side panels by pressing the clips and lifting
 - Place both side panels with the mechanical shelf for repackaging
- C. Repeat the same process for all mix-shelves, but unscrew and remove the serrated rollers on the bottom side panels.

BASE ASSEMBLY

- A. Remove the front and back Alu/zinc floor trays by unscrewing the serrated rollers taking care not to disengage them completely.
- B. Take care in keeping the motor facing the natural upright position.

TRANSPORTATION

- A. The bag or box of miscellaneous small parts should contain: the safety top cover, wall brackets, digital timer/clips, 2 each serrated rollers, and instruction manual.

WARRANTY

Quick-Mix Plus 150/220 MACHINES ARE WARRANTED FOR 2-YEARS FROM THE INVOICE DATE. IF THE ORIGINAL INVOICE IS NOT AVAILABLE, THE DATE STAMPING ON THE MOTOR TAG WILL BE USED IN-PLACE.

FOR CLAIMS AND TECHNICAL SERVICE, CONTACT FILLON TECHNOLOGIES NORTH AMERICA AT 800-777-1583 OR 401-431-1580, MONDAY-FRIDAY 8-4:30 P.M.

ALL WARRANTY CLAIMS SHOULD BE MADE BY CONTACTING FILLON TECHNOLOGIES NORTH AMERICA INC. UNDER NO CIRCUMSTANCES SHOULD PRODUCT BE RETURNED FOR INSPECTION OR REPAIR WITHOUT CONSENT AND/OR ISSUED VALID RETURNED GOODS AUTHORIZATION NUMBER.

IF A MIXING MACHINE MOTOR FAILS WITHIN THE WARRANTY PERIOD, CUSTOMERS MUST PROVIDE THE DATE STAMPED ON THE MOTOR TAG. THE DATE IS INDICATED BY A LETTER AND TWO NUMBERS LOCATED JUST BELOW THE NOTATION "INS" ON THE TAG.

THE TAG FROM THE DEFECTIVE MOTOR MUST BE RETURNED TO CUSTOMER SERVICE AT: FILLON TECHNOLOGIES NORTH AMERICA, INC. 70 COMMERCIAL WAY, EAST PROVIDENCE, RI 02914-1006

WITHIN 30-DAYS OR BE SUBJECT TO THE COST OF A REPLACEMENT MOTOR.

FILLON TECHNOLOGIES IS NOT RESPONSIBLE FOR COSTS INCURRED AS A RESULT OF EQUIPMENT FAILURE OR MISUSE.

THIS WARRANTY SHALL BE VALID FOR THE MENTIONED PERIOD, PROVIDED THAT THE EQUIPMENT WAS PROPERLY INSTALLED.

THE WARRANTY IS VOID IF THE EQUIPMENT HAS BEEN SUBJECTED TO UNAUTHORIZED MODIFICATIONS, MISUSE, NEGLECT, OR NON-COMPLIANCE WITH THE INSTRUCTION FURNISHED IN THE SERVICE MANUAL.