MM220

Instruction Manual



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MIX UNIT - MM220

- BASE UNII	- Ref. : Y64.MM04.03
- MIX-SHELF 11 CANS	- Ref. : Y64.A114.01
- MIX SHELF	- Ref. : Y64.A164.01

THE EQUIPMENT

MIX UNIT - MM 220 📝

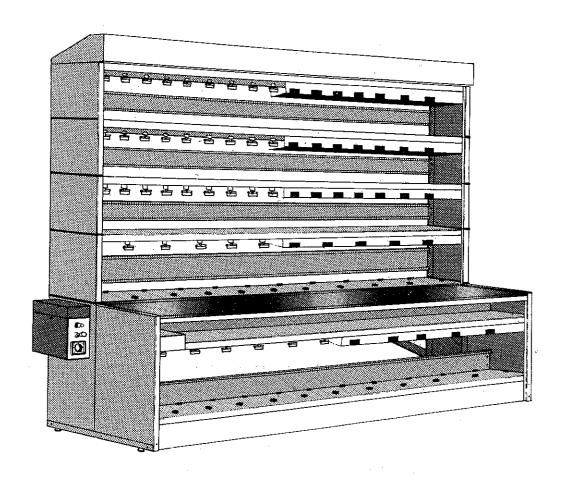


Diagram represents only one of the several possible combinations of modular elements you may construct.

THE EQUIPMENT

Your MM 220 mix unit is shipped in two or more pre-assembled parts, according to the number of mix-shelves ordered:

- 1. Ihe drive unit, together with the header plate and adjustable feet. Ihe fully Approved electrical motor is ready mounted.
- 2. Additional Mix-shelves, each fully assembled and separately shipped. Two types:
 - 11 x 1 gallon mix-shelf
 - 16 x 1 quart mix-shelf

You may mount as many mix-shelves as you require, in any configuration of 11 can or 16 can shelves.

<u>CAUTION</u>: The top shelf should not be so high as to make access <u>difficult</u>. Do not handle heavy cans above head level.

3. Control box, packed separately with the base unit, is connected to the motor, and cable is fully adjusted.

IMPORIANI: When mounting the control box on to the left hand side of the base unit, be careful not to bend or crimp the cable.

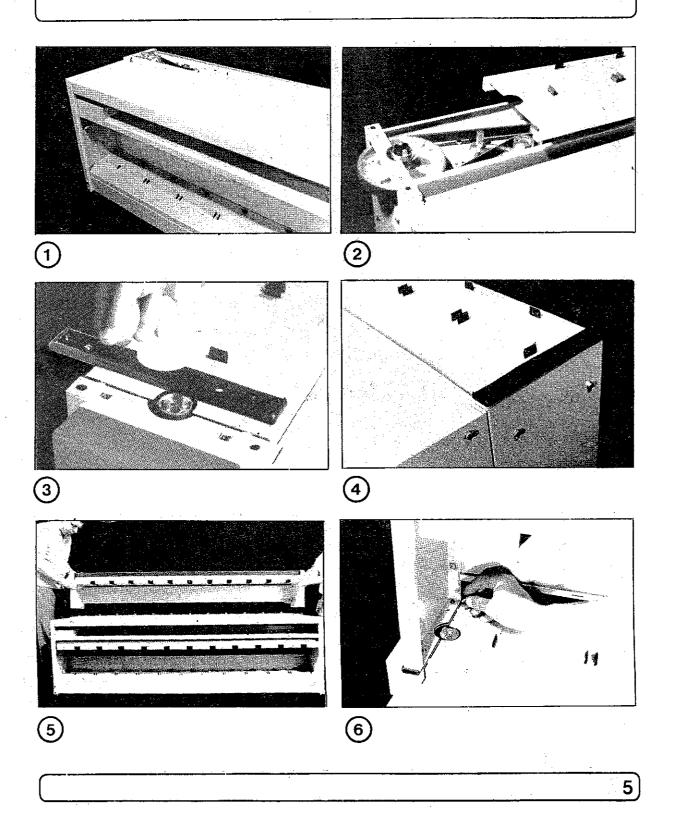
CAUTION: Electrical connections and installation should be carried out in accordance with all Federal, State, and local regulations, and only by a fully qualified electrician.

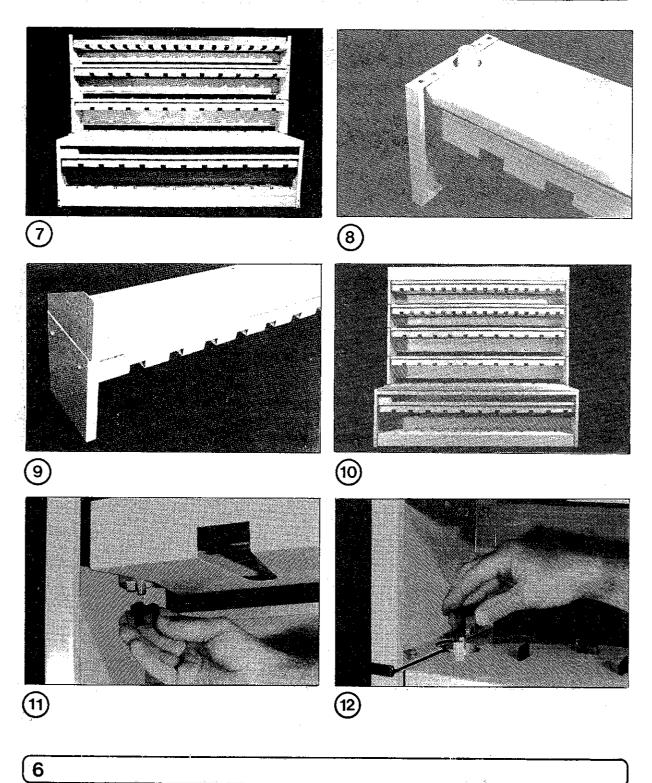
Optional

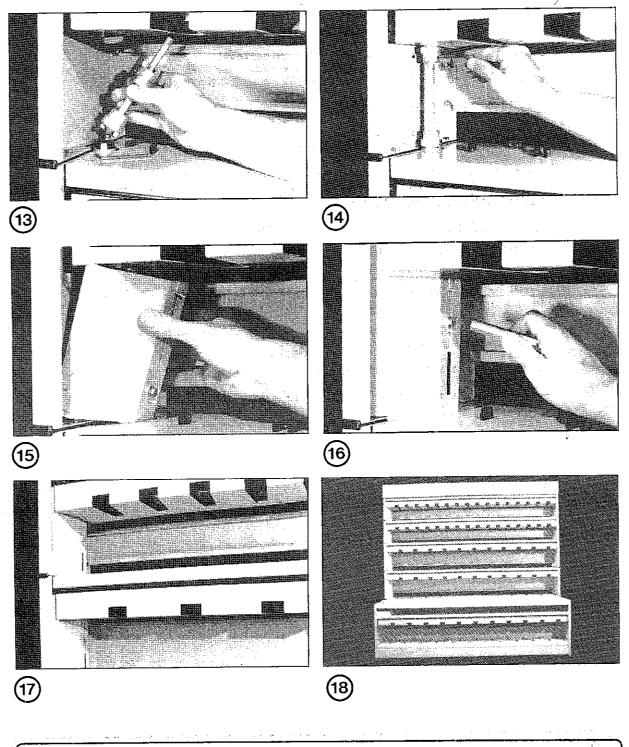
- Detachable Quart platforms, enabling quart cans to be mounted at gallon stations, can be ordered individually, and may be shipped separately or with the base unit or with the mix-shelf.
- Agitator lids, in gallon or quart sizes, incorporating safety handles and Patent flow control system, are ordered and shipped separately.

SUMMARY OF OPERALIONS

- 1. Base unit fully assembled.
- 2. Install mix-shelf cover behind work surface; control panel and pulley protection housing mounted on side of base unit. IMPORIANI: DO NOT BEND OR CRIMP IHE CONIROL CABLE.
- 3.&4. Mounting spacers between mix-shelves.
- 5.&6. Placing and securing mix-shelves.
- 7. Mix unit before final mix-shelf is installed.
- 8. Plastic cap mounted on upper drive block.
- 9. Header plate in position.
- 10. Upper mix-shelf mounted.
- 11.&12. Mounting drive cross-pieces.
- 13.&14. Installing and securing drive shafts.
- 15.&16.&17. Installing and securing shaft covers.
- 18. Mix unit fully assembled.







Check that the assembled mix-unit is perfectly level, by means of the bubble level included with the base unit. The feet of the unit can be adjusted for height by turning clockwise or anti-clockwise.

ELECTRICAL INSTALLATION

Your mix-unit is supplied with an explosion-proof (Class I, Div. I, Group D) fully Approved electric motor.

Power supply and other electrical connections should conform to all Federal, State, and local regulations, and should be carried out $only\ by$ a fully qualified electrician.

Electrical Supply: 110 volts - 60 Hz - Single-phase.

IMPORTANT

- Mix-units driven by a non-explosion-proof electrical assembly should not be used in any area where there is possible risk of paint vapor ignition.
- 2. Check that the shaft of the motor rotates clockwise. Arrow labels are provided to guide you.
- 3. The mix-unit must be fully grounded.
- 4. The mix-unit must not be installed in a damp place.

COMMISSIONING & OPERATION

COMMISSIONING

Before first using your mix-unit, check that :

- Ihe operator has seen and read all CAUIION markings and texts on the mix-unit and in the Service Manual.
- 2. The power supply is compatible with the power rating of the mix-unit.
- 3. All protective covers are firmly in place.
- 4. All electrical connections are covered.
- 5. All nuts and bolts are tight. They may have worked loose in transport.
- 6. Belts are correctly adjusted (see Routine Maintenance). If they are too loose, they will slip; if too tight, you may overload the motor.
- All belts are securely in place and running smoothly after 2 3 minutes operation.
- 8. Can clamps are correctly mounted. At each station, the notch on each of the three clamps should point outwards.
- 9. The unit is installed away from any source of heat (explosive vapors).
- 10. Do not use dented cans. Check manually that the agitator blades turn freely, before placing can in mix-unit.

OPERATION

- Paint cans may be safely placed in, or removed from the mix-unit, whether the unit is in operation or not.
- Make sure that agitator lids are firmly locked in position before placing cans in mix-unit.

Agitator lids should preferably incorporate a handle, to make can handling easier and safer.

- 3. DO NOI OVERREACH when placing cans in, or removing cans from the mix-unit.
- 4 Mix small (quart) cans rather than larger (gallon) cans on higher mix-shelves, for easier handling and greater safety.
- Make sure that all cans are securely in position before switching mix-unit ON.
- 6. Do not sit on the work table.

ROUTINE & ELECTRICAL MAINTENANCE

<u>CAUTION</u>: Before removing any protective covers, and prior to any maintenance or repair operation, make sure the unit is switched OFF (disconnect the unit, if possible).

Your mix unit will serve you longer, and risk of accidents will be reduced if regular maintenance is carried out:

DAILY: Remove all dust and paint residues after each use of the mix-unit, or at the end of the day. Use a standard, non-abrasive thinner. NEVER USE WATER TO WASH DOWN THE MIX-UNII.

MONIHLY : Check condition and tension of all drive belts. To adjust :

- mix-unit drive belts : adjust tension regulator (106)
- under-table mix-shelf drive belt : untighten wing-nut, hold knob and slide pulley support plate until correct belt tension is obtained. Retighten wing-nut.

ANNUALY: Check condition and tension of motor drive belt. Adjust belt by means of tension regulator 119.

ELECTRICAL MAINTENANCE

CAUTION: Any check, adjustment, or repair to any electrical component (motor, connections, etc....) should be carried out only by a fully qualified electrician.

"IMPORTANT:

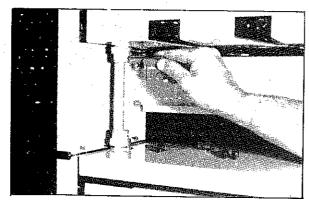
YOUR MIX UNIT IS FIFTED WITH A FULLY APPROVED EXPLOSION-PROOF MOTOR. ANY REPAIRS MUSI BE CERTIFIED IN CONFORMANCE WITH APPROVAL CONDITIONS.

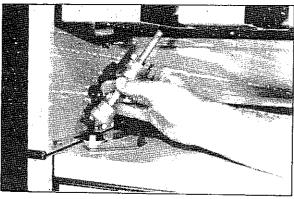
BEFORE YOU CALL AN ELECTRICIAN TO INVESTIGATE A MOTOR PROBLEM, II IS THEREFORE MOST IMPORTANT TO CALL FILLON PICHON USA INC.

FOR THE APPROPRIATE INSTRUCTIONS : 401 431 1580

PARTS REPLACEMENT

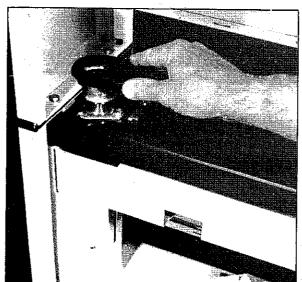
1. DRIVE CROSS-PIECE





REPLACE CROSS-PIECE, THEN RE-INSTALL SHAFT AND COVER PLATE

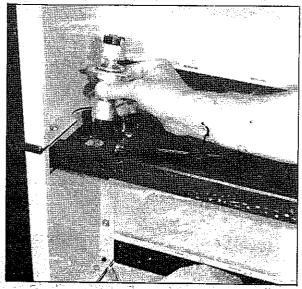
2. MIX-SHELF BELI



IF IHE BELI IS DEFECTIVE, INSTALL A NEW ONE. MAKE SURE THAT THE NEW BELT IS CORRECTLY LOCATED AROUND THE TENSION ROLLERS.

RE-ADJUSI IENSION ROLLERS IO OBIAIN CORRECT IENSION.

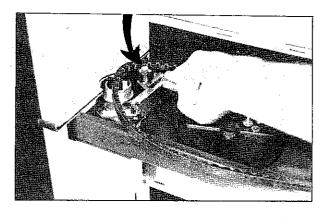
3 DRIVE BLOCK

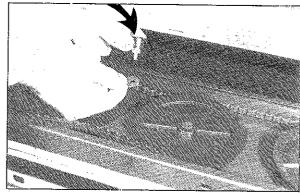


REMOVE BELI AND REPLACE DEFECTIVE BLOCK.

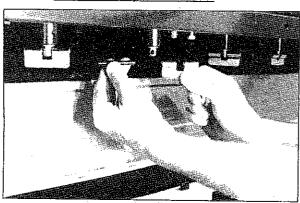
PARTS REPLACEMENT

4. ADJUSIABLE IENSION REGULATOR / FIXED TENSION ROLLER





5. MIX-SHELF PLASTIC PULLEY



REPLACE PULLEY THEN RE-INSTALL BELT

6. SELF-LUBRICATING RING

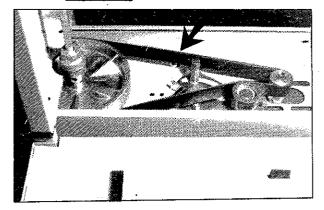


REPLACE PULLEY, THEN RE-INSTALL BELT, DRIVING DEVICE AND PIN, AND PROIECTIVE COVER.

REPLACE DEFECTIVE RING.
RE-INSTALL PULLEY, BELI, DRIVING
DEVICE WITH PIN, AND PROTECTIVE
COVER.

PARTS REPLACEMENT

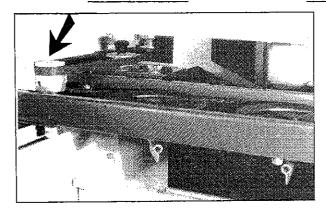
7. MOIOR BELI



SLACKEN MOTOR BELI BY RELEASING IENSION REGULATOR. REPLACE DEFECTIVE BELI, AND RE-ASSEMBLE ALL PARTS

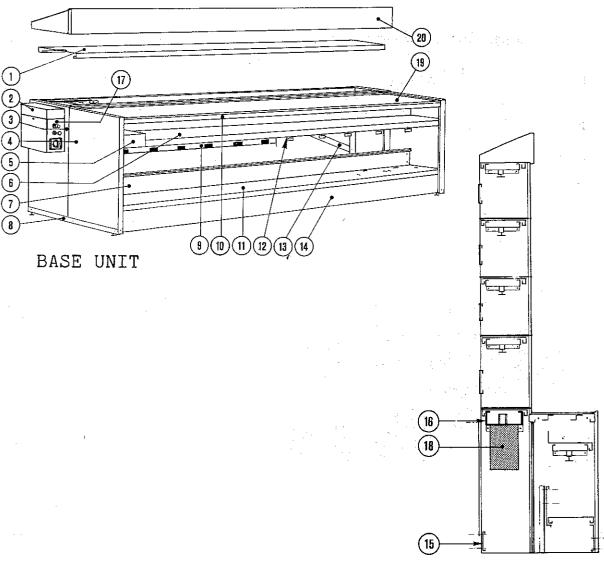
8/1. M83 DRIVE BLOCK

2. UNDER-SIAGE DRIVE BELT

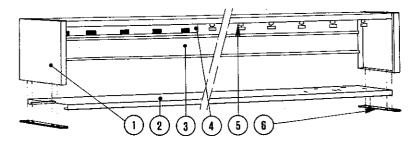


- 1) SLACKEN UNDER-TABLE DRIVE BELT BY RELEASING IENSION REGULATOR. REMOVE BELT AND REPLACE DRIVE BLOCK.
- 2) SLACKEN BELT BY RELEASING FENSION REGULATOR. REPLACE BELT AND RE-INSIALL PARTS IN REVERSE ORDER.

PARTS DIAGRAM



MIX-SHELF

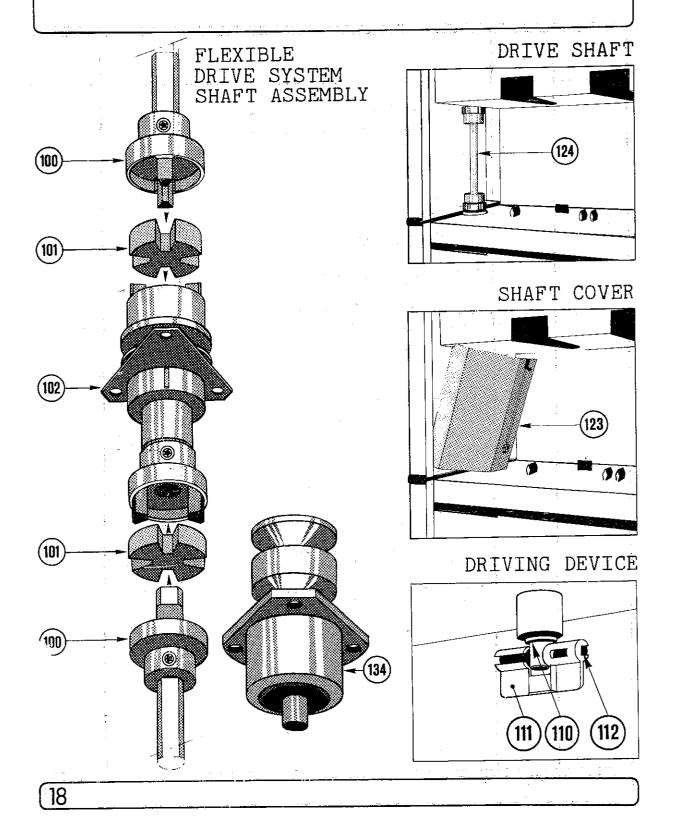


	Item	Description	Part No.
		BÀSE UNIT	
	1	Upper shelf	13 12 01
	2	Pulley protection housing	19 01 12
	3	Back panel MM - left - right	16 92 00D 16 93 00D
	4	Front panel MM - left - right	16 94 00D 16 95 00D
	5	Drive housing	19 19 00
	6	Under table storage shelf	13 07 401D
	7	Shelf support plate	19 50 09
	8	Stabilizer feetleftright	15 56 01D 16 56 02D
	9	Protective driving device cover - under table storage '11 cans	19 12 60
	10	Work top	14 28 00D
	11	Slotted shelf - under table stage : 11 cans (1 gallon)	13 12 04
	12	Modular mechanical shelf (with fittings) - under table stage : 11 cans M83	12 44 11
-	. 13	Cross brace	25 16 00
-	: 14	Front skirting board	[15 19 16D
	15	Back skirting board	15 19 108
	16	Motor assembly shelf	12 47 10
:		Explosion-proof single-phase electrical assembly 110V-60 Hz including:	
	17	Mechanical control box, complete with cable	24 82 00
		- Cable only, with fittings	24 82 70

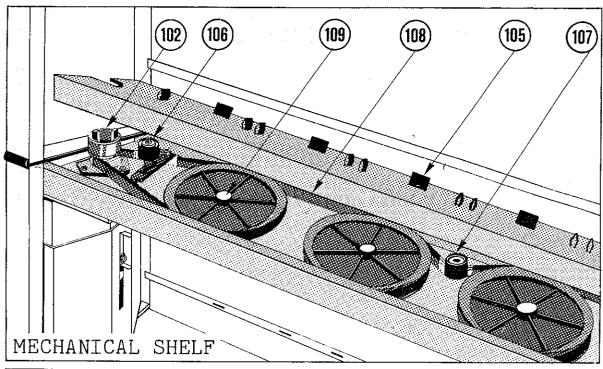
Item	Description	Part No.
18	Motor assembly Details : see mechanical parts	
10	Stainless steel table top	14 63 00
1 9 20	Header plate	18 59 00
20	neauer prace	
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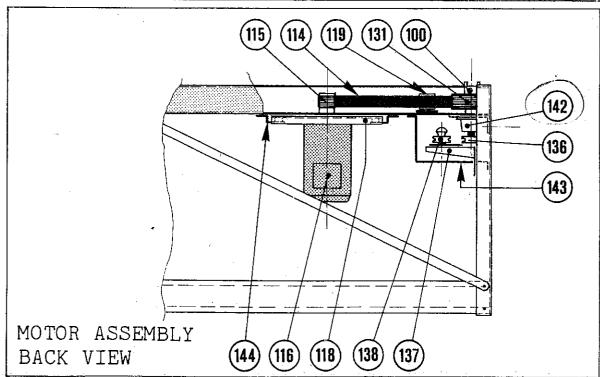
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Item	Description	Part No.	· .
	MIX-SHELF 11 CANS		
1	Modular panel large cans (1 gallon) - left - right	11 27 01D 11 27 02D	
2	Slotted shelf - modular stage : 11 cans (1 gallon)	13 12 02	
3	Back plate - modular large cans for detachable quart platforms	21 09 01	
4	Protective driving device cover	19 12 49	
5	Modular mechanical shelf (with fittings) - modular stage : 11 cans (1 gallon)	12 45 11	
6	Plastic shelf spacers	04 20 06	İ
	MIX-SHELF 16 CANS	·	
1	Modular panel, small cans (1 quart) - left - right	11 27 03D 11 27 04D	
2	Slotted shelf - modular stage : 16 cans (1 quart)	13 12 03	Ī
. 3	Back plate - modular small cans	19 02 11	
4	Protective driving device cover - modular stage : 16 cans	19 12 50	. [
5	Modular mechanical shelf (with fittings) - modular stage : 16 cans (1 quart)	12 46 11	ŀ
6	Plastic shelf spacers	04 20 06	

PARTS DIAGRAM



PARTS DIAGRAM





	Item	Description	Part no.
,	100	Drive sleeve (with screw)	04 10 04D
	101	Drive cross piece	04 20 01
	102	Standard drive block	08 17 00
	105 106	Can clamp (bag of 25 pieces)	04 01 29E
		Adjustable belt regulator TR83	08 72 00
	107	Fixed belt roller	08 71 00D
	108	Mechanical shelf drive belt 4450	03 01 39
	109 & 133	Mechanical shelf pulley 142 Gallon	04 20 03
	133	Mechanical shelf pulley 126 Quart	04 20 04
	110	Self lubricating ring BP25.C 12x15x12	03 04 01
	111	Driving device	04 20 07
	112	Driving device pin	04 01 39
	114	Motor belt 955	03 01 56
	115	Motor pulley POLY V 33 .For motor with flange	05 01 104D
	116	Explosion-proof single-phase motor 1 HP (with pulley) with built-in switch .With flange .Silentblocs (with nuts) .Ground wire	06 01 70D 03 02 03D 06 50 01
	118	Motor support bracket .For motor with flange	20 34 10
	119	Motor belt regulator	08 31 00
	123	Shaft cover (Gallon can stage)	19 08 10D
		Shaft cover (quart can stage)	19 08 00D
	124	Drive shaft 213 (Gallon can stage)	Z08 50 64

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Item	Description	Part No.	,
124	Drive shaft 153 (Quart can stage)	Z08 50 65	
131	Driven pulley POLY V 165 (with screw)	05 01 80D	
134	Drive block MB3	Z08 24 00D	
136	Pulley 141C (with screw)	05 01 09D	
137	Under table belt regulator bracket plate	08 30 00	i
138	Under table belt regulator	20 23 30 '	
	Under table shelf belt 815	03 OT 43	
142	Drive block MM	08 29 00	' §
143	Under table drive housing	19 01 10	
144	Mount for motor support bracket	20 29 20	
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SUMMARY OF CAUTIONS

- 1. The mix-unit should be installed in a damp-free place, away from any source of heat (explosive vapors). Mix-units driven by a non-explosion-proof electrical assembly should not be used in any area where there is a possible risk of paint vapor ignition.
- 2. Installation of the mix-unit, as well as any check, adjustment, or repair of any electrical component (motor, connections, etc...) should be carried out only by a fully qualified electrician. Installation should be in accordance with all Federal, State, and local regulations, and the mix-unit must be fully grounded.
- 3. All electrical connections should be fully covered at all times.
- 4. Protective covers should <u>always</u> be in position. They are provided to protect you against any possible risk of injury.
- 5. Before removing any protective covers, and prior to any maintenance or repair operation, make sure the unit is switched OFF (fully disconnect if possible).
- 6. The upper mix-shelves should be reserved for smaller cans, which are lighter, and thus safer, to handle.
- 7. Do not use dented cans. Check manually that the agitator blades turn freely, before placing cans in mix-unit.
- $8.\ \,$ Make sure that agitator lids are firmly secured before placing cans in the mix-unit.
- 9. Make sure that cans are securely in place before switching mix-unit $\ensuremath{\text{ON}}_{\text{\tiny{a}}}$
- 10. Never overreach when placing cans in, or removing cans from the mix-unit
- 11. Never use water to wash down the mix-unit.
- 12. Do not sit on the work table.

The manufacturer cannot be held responsible for any accident resulting from non-compliance with the cautions contained in this Manual or affixed to the mix-unit, nor in the case of a mix-unit modified without the prior knowledge and consent of the manufacturer.

"IMPORTANT:

YOUR MIX UNIT IS FITTED WITH A FULLY APPROVED EXPLOSION-PROOF MOTOR. ANY REPAIRS MUST BE CERTIFIED IN COMPORMANCE WITH APPROVAL CONDITIONS...

BEFORE YOU CALL AN ELECTRICIAN TO INVESTIGATE A MOTOR PROBLEM IT IS THEREFORE MOST IMPORTANT TO CALL FILLON PICHON USA INC.
FOR THE APPROPRIATE INSTRUCTIONS : 401 431 1580

TROUBLE-SHOOTING SHART

P.ROBL EM	POSSIBLE CAUSE	SOLUTION
MOTOR WILL NOI IURN	. No current Timer not activated	. Check power supply 115V . Activate timer
	. Motor switch not activated	. Check tension of spring to motor switch plate . Adjust cable tension . Replace cable if severely
	Internal motor problem	crimped "DO NOI OPEN MOIOR. Call Fillon Pichon at (401) 431-1580
NO MIX-SHELVES IURNING	. Motor not turning . Worn, loose, or slipped motor drive belt . Loose motor pulley	. See above . If slipped, re-mount belt . If loose, adjust tension . If worn, replace . lighten pulley
INDIVIDUAL MIX-SHELF WON'T TURN	Mix-shelf belt slipped, loose, or worn Worn driving cross-piece Loose driving sleeve Fixed tension roller(s) not tight Drive bloc seizes or heats up Tension regulators seize or heat up	Change bloc
AGIIAIOR PADDLE WON'T IURN	Dent in can Drive-fork not correctly located under drive-plate Loose drive-fork Broken drive-fork Iid badly seated on can	. Iransfer paint to new can . Locate correctly . Check position of can clamps . Tighten set-screw . Replace fork . Re-locate lid

MOTOR TROUBLE-SCHOOTING SCHART

PROBLEM	POSSIBLE CAUSE	SOLUTION	
MOTOR WON'T START	° TIMER NOT ACTIVATED	° MAKE SURE TIMER IS ON WHEN MACHINE IS ACTIVATED	
	° MOTOR SWITCH NOT ACTIVATED	• TURN ROCKER SWITCH BY HAND. IT SCHOULD "CLICK" ON	
		- IF NOT, REPLACE MOTOR - IF SWITCH "CLICKS" ON:-	
		° CHECK/ ADJUST SWITCH SPRING ° CHECK/ ADJUST CABLE TENSION - IF CABLE IS CRIMPED, REPLACE	
MOTOR WON'T TURN MACHINE	° MOTOR BELT TOO LOOSE ° MOTOR BELT TOO TIGHT	• TIGHTEN • SLACKEN - IF MOTOR SHAFT IS BENT, REPLACE MOTOR	

WARRANTY

FILLON PICHON USA, INC. warrants each new mix unit to be free from defects in material and workmanship under normal use and service.

FILLON PICHON USA, INC. will replace and/or repair any part of the mix unit which it determines is defective for a period of twelve (12) months after delivery of the mix unit to the original end user. Not included under the terms of this Warranty are any parts which require replacement due to normal wear and tear (belts, fuses, etc.).

All Warranty claims should be made by contacting the company which was responsible for selling the mix unit to the original end user. Under no circumstances should the mix unit or any part thereof be returned to the factory for inspection, replacement and/or repair without the express written consent of FILLON PICHON USA, INC.

Ihis Warranty is expressly in lieu of all other warranties and representations express or implied, and all other obligations and liabilities on the part of FILLON PICHON USA, INC.

All electrical components of the mix unit furnished by FILLON PICHON USA, INC. but not manufactured by FILLON PICHON USA, INC. are warranted specifically by their respective manufacturers and FILLON PICHON USA, INC. makes no warranties with respect to these items.

Ihis Warranty shall be valid for the Warranty period, as long as the mix unit has been properly installed or repaired by a fully qualified electrician or mechanic. The Warranty shall be void, if the mix unit has been subjected to unauthorized modification, misuse, neglect, accident or noncompliance with instructions in the service manual.

Ihis Warranty is for the sole benefit of the original end user and is not assignable or transferable. The term "original end user" in this Warranty shall be deemed to mean that person or entity for whom the mix unit is originally installed.

EL FABRICANIE NO SE HACE RESPONSABLE DE ACCIDENIE ALGUNO QUE RESULIE POR NO HABERSE SEGUIDO LAS ADVENTENCIAS CONTENIDAS EN EL MANUAL DE SERVICIO O QUE ESTAN ADHERIDAS A LA UNIDAD DE MEZCLAR; NI TAMPOCO, SI SE HACE ALGUNO MODIFICACION A LA UNIDAD. DE MEZCLAR SIN EL PREVIO CONOCIMIENTO Y CONSENTIMIENIO DEL FABRICANTE