



Mix Unit

ASM101

Owners Manual



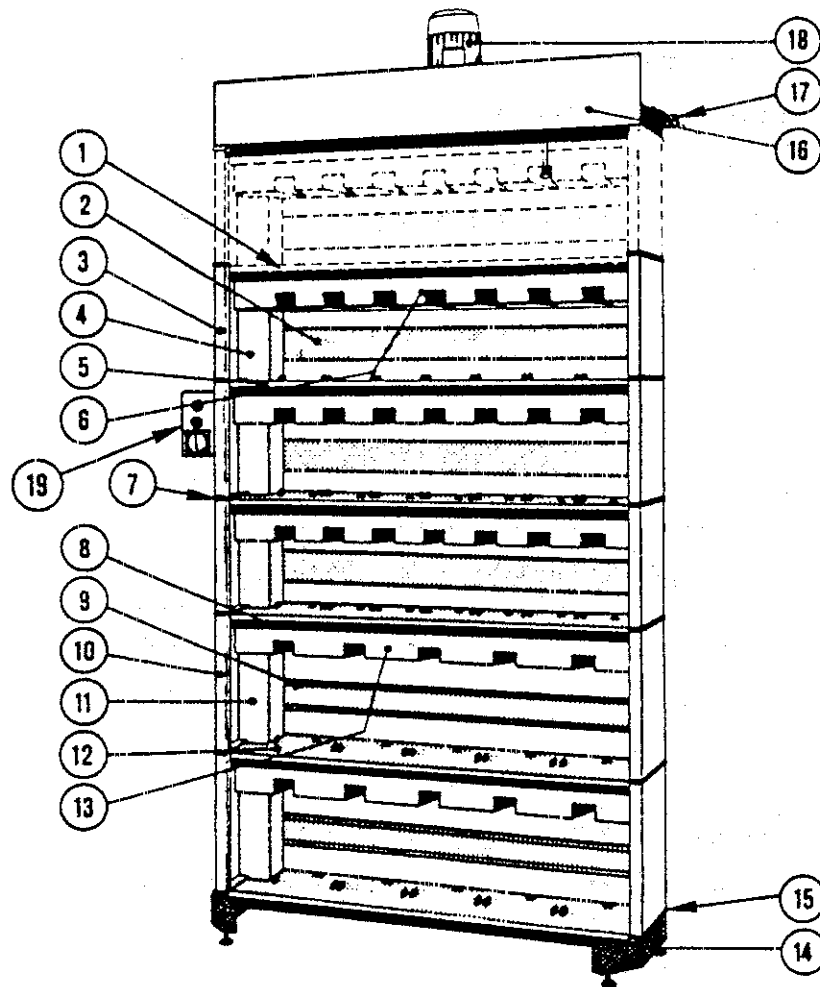
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MIX UNIT : ASM 101

- BASE KIT	- Réf. Y52.ASM1.01
- DRIVE UNIT	- Réf. Y52.X16.M73
- MIX SHELF - 5 CANS	- Réf. Y52.A051.01
- MIX SHELF - 5 CANS WITH QUICK STIRRER STATION	- Réf. Y52.A051.02
- MIX SHELF - 7 CANS	- Réf. Y52.A071.01

THE EQUIPMENT



Detachable quart platform

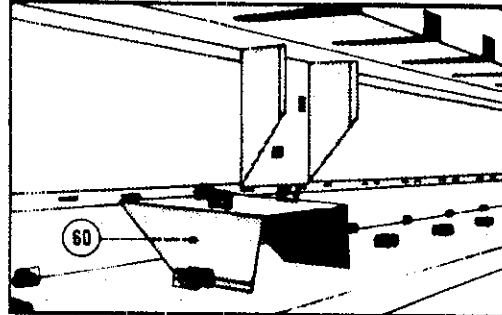


Diagram represents only one of several possible combinations of modular elements you may construct.

THE EQUIPMENT

Your ASM mix unit is shipped in several preassembled parts, and includes one or more mix-shelves :

1. THE BASE KIT, including

- Support base and feet
- Header plate

2. DRIVE UNIT

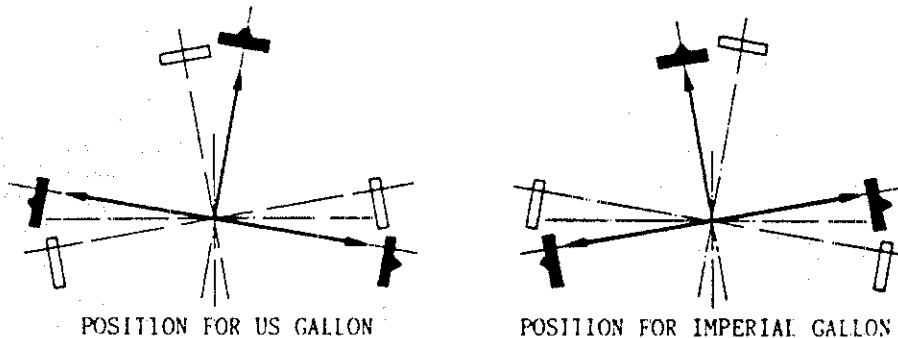
- The fully Approved electric motor is ready mounted.

3. MIX-SHELVES, assembled and separately shipped.

Three types :

- 5 x 1 US GALLON or 5 x 1 IMPERIAL GALLON (double slotted)

VARIABLE CAN CLAMP LOCATIONS



- 7 x 1 US QUART or 7 x 1 IMPERIAL QUART
- Storage shelf (install at base of unit only)

You may mount as many shelves as you require, in any configuration of 5 can or 7 can, or storage shelves.

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

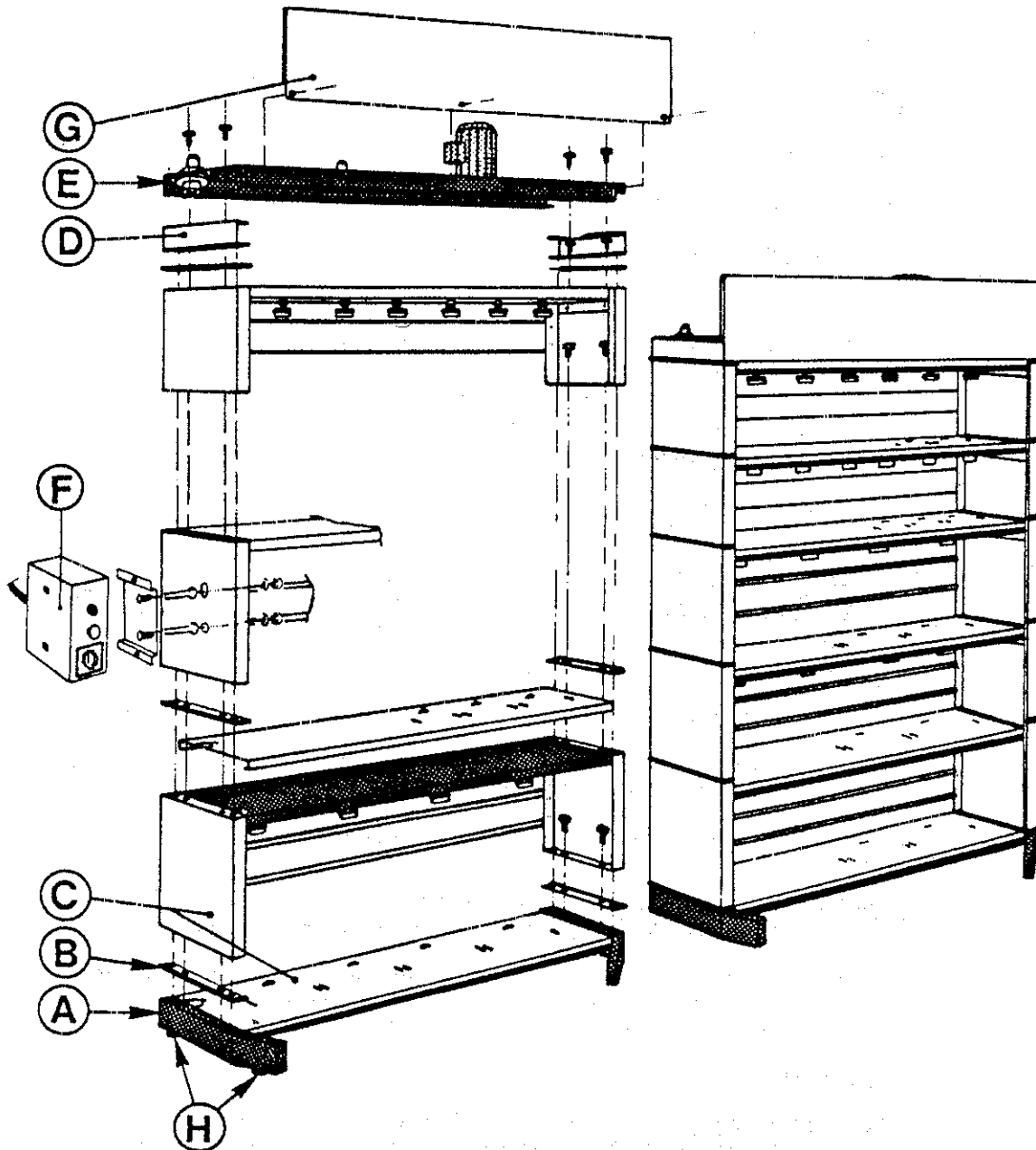
CAUTION : Electrical connections and installation must be carried out in accordance with all Federal, Provincial and local regulations and only by a fully qualified electrician.

4. OPTIONAL :

- Quart platforms, enabling Quart cans to be installed at Gallon stations can be ordered individually, and may be shipped separately or with the drive 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.

MONTAGE & INSTALLATION

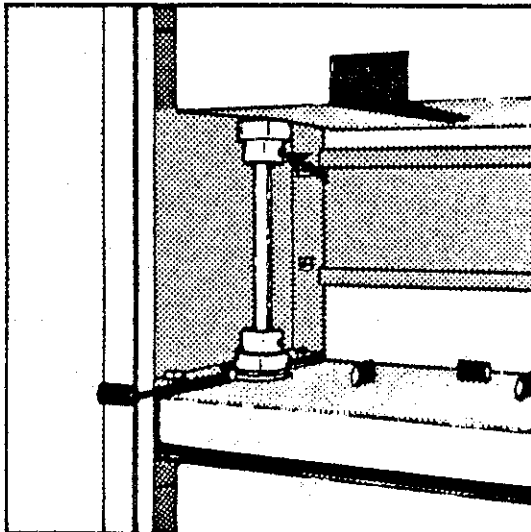
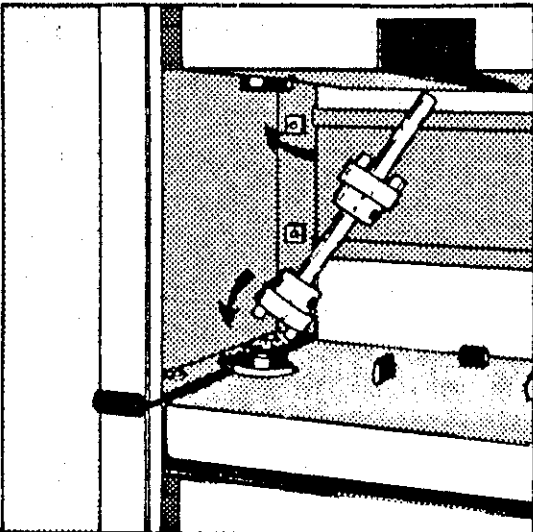
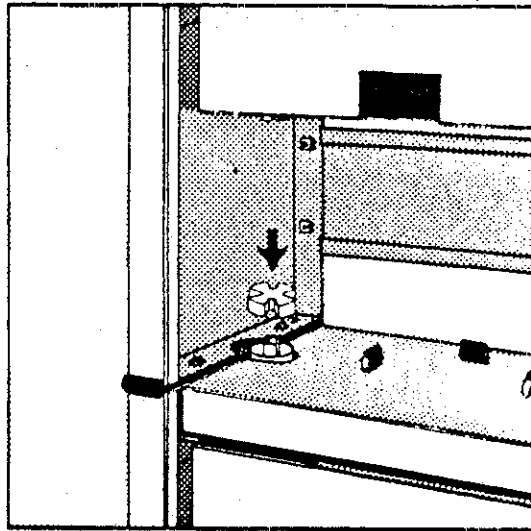
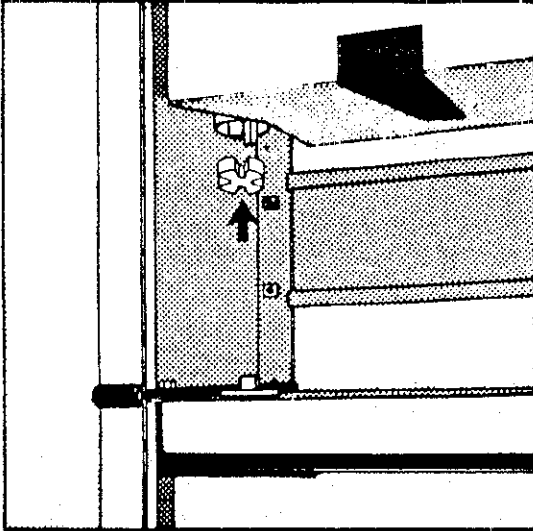
MONTAGE DE L'AGITATEUR



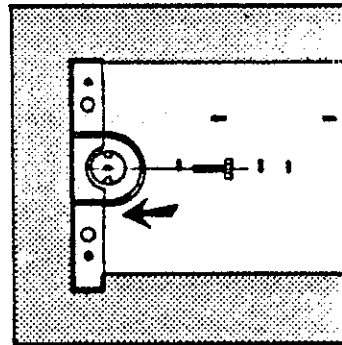
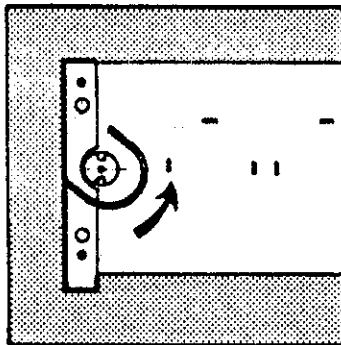
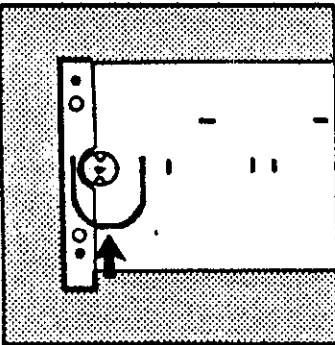
Monter le module moteur sur le dernier étage, puis installer cet ensemble au sommet de l'agitateur.

ASSEMBLY & INSTALLATION

TO INSTALL DRIVE SHAFTS



TO INSTALL SHAFT COVERS



ASSEMBLY & INSTALLATION

1. MIX UNIT ASSEMBLY

- Assemble the various components as shown in the example on page 4. Mix-shelves may be mounted in any configuration.
- Attach drive unit to upper mix-shelf before mounting on top of mix-unit.
- Check that the assembled mix-unit is perfectly level. A bubble level is provided. The feet of the unit can be adjusted for height by turning clockwise or anti-clockwise.

2. MOUNTING DRIVE SHAFTS AND SHAFT COVERS

- Start by mounting the 2 cross-pieces, one on the lower drive-block, the other on the upper drive sleeve, of each mix-shelf.
 - Locate the drive sleeve, fixed at the end of the shaft, on to the lower cross-piece, and push down firmly until it is fully engaged.
 - Unscrew the other drive sleeve and slide it up the shaft. Again, make sure it is fully engaged into the upper cross-piece. Lock the drive sleeve by tightening screw against flat surface of shaft. Allen wrench is provided.
 - Install shaft protection covers as illustrated on page 5. Insert the tab at the base of the cover into the slot next to the shaft cavity. Secure with bolt and washer at top of cover.

3. ELECTRICAL INSTALLATION

Your mix-unit is supplied with an explosion-proof (Class I, Div. 1, Group D) electric motor (UL & CSA Approved).

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

Electrical Supply : 115 volts - 60 Hz - Single-phase

IMPORTANT

1. 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. The mix-unit must be fully grounded.
3. The mix-unit must not be installed in a damp place.

COMMISSIONING & OPERATION

COMMISSIONING

Before first using your mix-unit, check that :

1. The operator has seen and read all CAUTION 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.
7. 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. (See Page 3 for optional US or Imperial Gallon clamp positions).
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

1. Paint cans may be safely placed in, or removed from the mix-unit, whether the unit is in operation or not.
2. 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 NOT 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.
5. Make sure that all cans are securely in position before switching mix-unit ON.

ROUTINE & ELECTRICAL MAINTENANCE

CAUTION : 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-UNIT.

MONTHLY : Check condition and tension of all mix-shelf drive belts.
To adjust :
- use tension regulator 106 or 107 (see page 13)

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

PARTS REPLACEMENT

I. SPARE PARTS REPLACEMENT

1. Drive cross-piece (101)
 - 1.1. Remove the shaft cover.
 - 1.2. Unscrew lower drive sleeve, push it up, and remove drive shaft.
 - 1.3. Replace defective cross-piece, reinstall shaft and protection cover.
2. Mechanical shelf belt (108), drive block (102), fixed belt roller (107), pulley (109 or 133), autolube ring (110).
 - 2.1. To replace any of these parts, first remove the shaft cover (123), the shaft (124), and the slotted shelf of the mix-shelf involved.
 - 2.2. Mechanical shelf belt (108)
 - Remove the defective belt and install new one. Make sure that it is correctly positioned with regard to the fixed belt rollers (107).
 - Adjust the fixed belt rollers (107) to ensure correct belt tension.
 - 2.3. Drive block (102)
 - Remove the shaft cover and shaft from the shelf immediately below the shelf involved.
 - Remove belt (108) and replace defective block.
 - 2.4. Fixed belt rollers (107)

Unscrew to replace.
 - 2.5. Mechanical shelf pulley
 - Remove protective driving device cover.
 - Drive out pin (112) to release driving device.
 - Replace pulley (109 or 133), and reinstall all parts in reverse order.
 - 2.6. Autolube ring (110)
 - Remove protective driving device cover.
 - Drive out pin (112) to release driving device.
 - Remove ring, and reinstall all other parts in reverse order.
3. DRIVE BELT (114)
 - 3.1. Remove motor assembly from the upper mix-shelf.
 - 3.2. Slacken the drive belt by loosening tension regulator (106). Replace belt, adjust tension, and replace all parts.

PARTS LIST

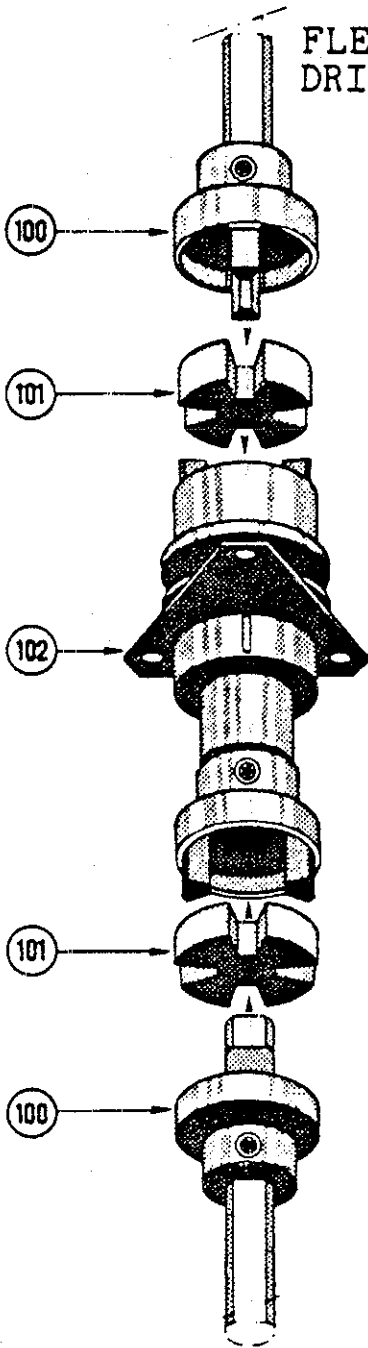
Item	Description (see p.2)	Part Number	
MODULAR MIX-SHELF 7 x 1 QUART (US or IMPERIAL)			
1	Mechanical shelf 7 x 1 Quart	12 77 10	
2	Back plate	19 02 21	
3	Quart shelf side panel		
	. Left	11 28 15D	
	. Right	11 28 16D	
4	Shaft cover (Quart can stage)	19 09 15	
	. Bracket	19 09 01	
5	Mix-shelf cover 7 x 1 Quart	13 19 07	
6	Protective driving device cover	19 12 52	
7	Plastic spacers for modular shelves (set of 2)	04 20 06	
<hr style="border-top: 1px dashed black;"/>			
MODULAR MIX-SHELF 5 x 1 GALLON (US or IMPERIAL)			
8	Mechanical shelf 5 x 1 Gallon	12 78 10	
9	Back plate	21 08 01	
10	Gallon shelf side panel		
	. Left	11 28 11D	
	. Right	11 28 12D	
11	Shaft cover (Gallon can stage)	19 09 13	
	. Bracket		
12	Mix-shelf cover 5 x 1 Gallon (double slotted)	13 19 09	
13	Protective driving device cover	19 12 51	
	. Modular stage : 5 cans		
14	Base	15 35 00	
15	Plastic spacer for base (set of 2)	08 44 00	
16	Header plate	18 77 00	
17	Wall fixing bracket	08 45 00	
18	1/2 HP single-phase explosion-proof motor assembly 115 V - 60 Hz	Details Page 21	

PARTS LIST

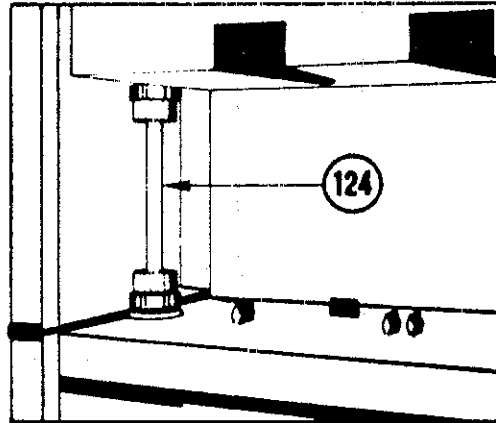
Item	Description (see p.2)	Part Number	
19	Mechanical control box, complete with cable - cable only, with fittings - Control bracket	24 89 00 24 89 70 24 35 05	

PARTS LIST

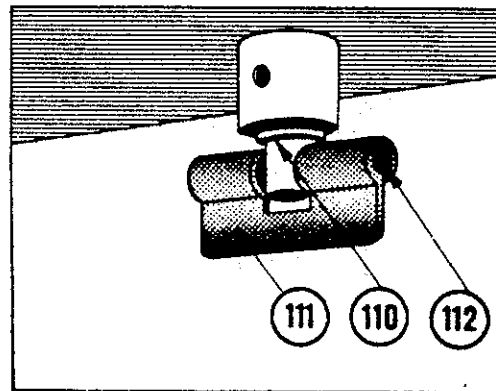
FLEXIBLE DRIVE SYSTEM



DRIVE SHAFT

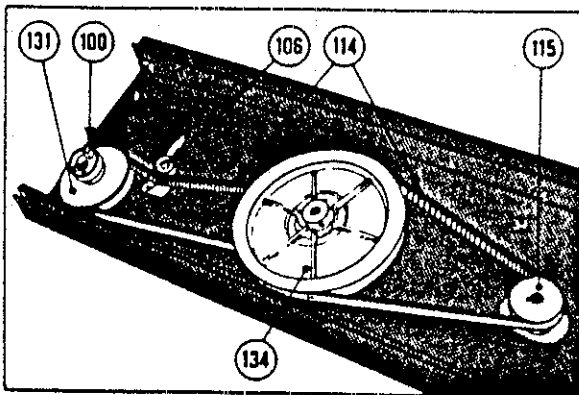
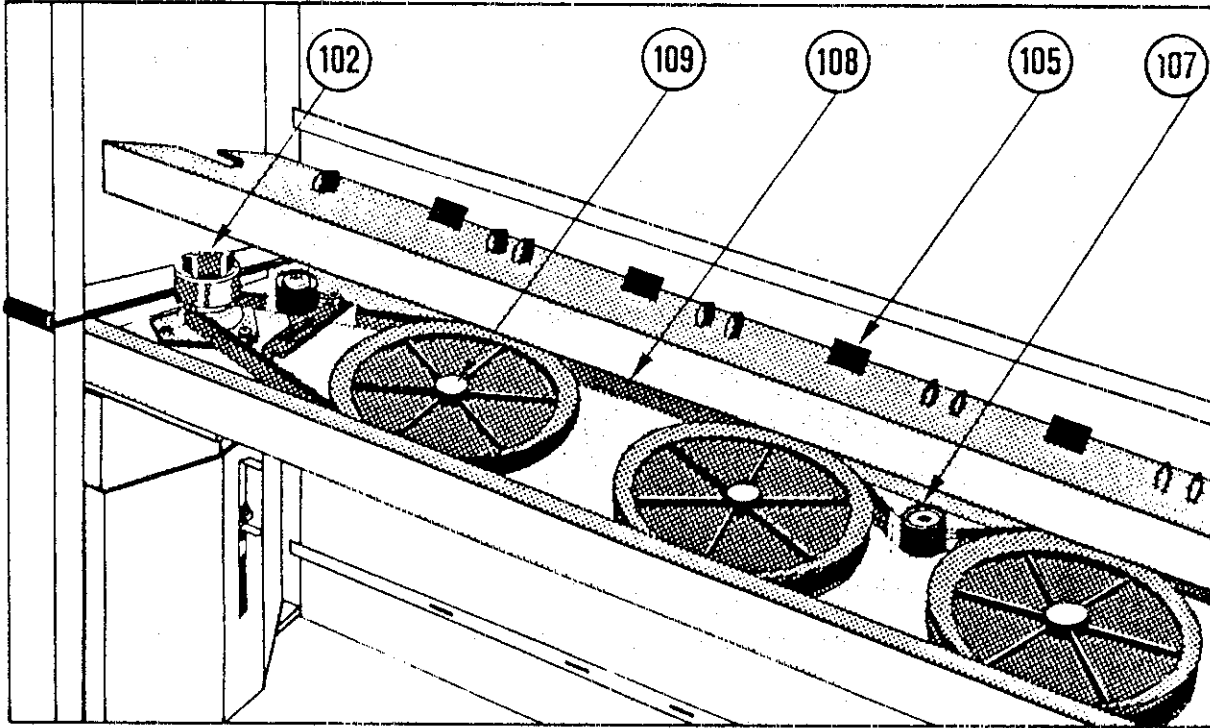


DRIVING DEVICE

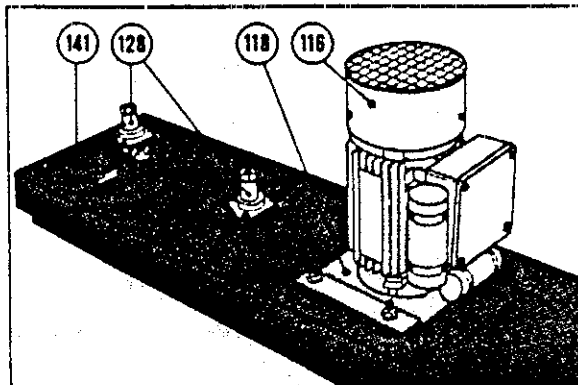


PARTS LIST

MECHANICAL SHELF



MOTOR ASSEMBLY



PARTS LIST

Item	Description	Part Number	
100	Drive sleeve (with screw)	04 10 04D	
101	Drive cross piece	04 20 01	
102	Standard drive block	08 17 00	
105	Can clamp (bag of 25 pieces)	04 01 29E	
106	Adjustable belt regulator TR83	08 22 00	
107	Fixed belt roller	04 01 05D	
108	Mechanical shelf drive belt 2085	03 01 46	
	Mechanical shelf drive belt 2030	03 01 49	
109	Mechanical shelf pulley \emptyset 126 mm	04 20 04	
	Mechanical shelf pulley \emptyset 90 mm	04 10 08	
110	Self lubricating ring BP25.C 12X15X12	03 04 01	
111	Driving device	08 05 00	
112	Driving device pin	03 03 01	
114	Motor belt L = 815 mm	03 01 43	
115	Motor pulley 15,875/DP 42	05 01 126D	
116	Explosion-proof single-phase motor 1/2 HP (with pulley) with flange	06 01 73D	
	· Silent-blocs (with nuts)	03 02 03	
	· Ground wire	06 50 01	
	· Switch plate with screw	24 82 10D	
	· Spring	04 01 36	
118	Mounting plate for C face motor	20 39 05	
124	Drive shaft (drive unit)		
	· L = 156 mm (Quart)	29 2 156	
	· L = 213 mm (Gallon)	29 2 213	
128	ASM drive block	08 48 00	
131	Driven pulley DP92 (with screw)	05 01 163	
134	Intermediate double pulley (with screw)	04 01 19.00D	

PARTS LIST

	Item	Description	Part Number	
	141	Motor shelf ASM Baf of tools	20 39 00 08 50 01	

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, Provincial, 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 always 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 switch is locked in the OFF position (unit fully disconnected, 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 the 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 ON.
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.

TROUBLE-SHOOTING CHART

MOTOR WILL NOT TURN	<ul style="list-style-type: none"> .. No Current .. Timer not activated .. Motor switch not activated .. Internal motor problem 	<ul style="list-style-type: none"> .. Check power supply 115 V .. Make sure control rod is correctly connected to the motor switch .. Make sure motor "clicks" ON & OFF .. DO NOT OPEN MOTOR, Call Fillon Pichon at 1.800.777.1583
NO MIX-SHELVES TURNING	<ul style="list-style-type: none"> .. Motor not turning .. Worn, loose, or slipped motor drive belt .. Loose motor pulley 	<ul style="list-style-type: none"> .. See above .. If slipped, re-mount belt .. If loose, adjust tension .. If worn, replace .. Tighten pulley
INDIVIDUAL MIX-SHELF	<ul style="list-style-type: none"> .. 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 	<ul style="list-style-type: none"> .. If slipped, re-mount .. If loose, adjust tension .. If worn, replace .. Replace cross-piece .. Tighten set-screw .. Tighten .. Change bloc .. Change tension regulator
AGITATOR PADDLE WON'T TURN	<ul style="list-style-type: none"> .. Dent in can .. Drive-fork not correctly located under drive-plate .. Loose drive-fork .. Broken drive-fork .. Lid badly seated on can 	<ul style="list-style-type: none"> .. Transfer paint to new can .. Locate correctly .. Check position of can clamps .. Tighten set-screw .. Replace fork .. Re-locate lid

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.

This 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.

This 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.

This 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.