ENGINEERING

CHANGE

ORDER

E.C.D. NO. 473-178

473 FRENCH/GERMAN (SERVICE KIT) MODELS AFFECTED

DATE: 5-24-90

EFFECTIVITY: SEE REMARKS

SHEET 1 OF 1

DISTRIBUTION:

NAME	PRINTS	NAME	PRINTS	NAME	PRINTS
BAUER	4	HOEPER	-	MILSTER	_
COOPER	_	KUESER	1	REED	1
CUMMINS	-	MATTHEWS	ī		1
EBELING	4	GARVELS	-	WATKINS	=
EWING		HART	-	WILSON	
				MICRO FILM	1

SPECIAL DISTRIBUTION: ALBRECHT, GARAVAGLIA AND SMITH 1-ECO.

DESCRIPTION OF CHANGE:

NEW KIT ASSEMBLY BEING ESTABLISHED FOR "FRENCH AND GERMAN 473 MERCHANDISERS" TO INCORPORATE A HOT CHOCOLATE SELECTION.

ARTWORK IS BEING RELEASED TO PURCHASING WITH THIS ECO. ARTWORK IS TO BE RETURNED TO AL GRETHEY, ENGINEERING DESIGN.

NEW SERVICE PART NUMBERS (NEW DRAWINGS ARE REVISION "A", DATED 5-22-90).

RITHOUT CHOCOLATE FRENCH/GERMAN ("A"SIZE MA/-P)
BAG ASSYHOT CHOC.KIT-FRENCH/GERMAN ("B"SIZE MA7-P)
INSTRHOT CHOCFRENCH/GERMAN ("N/D" PC7-7)
IC ASSYMCU-PROG.(U6)-FRENCH ("A" SIZE MA7-P)
IC ASSYPROGFRCHOC.KIT #1 ("A" SIZE MA7-P)
IC ASSYPROGFRCHOC.KIT #2 ("A" SIZE MA7-P)
LABEL-HOT CHOCGERMAN ("A" SIZE PC7-P)
LABEL-CHOCOLATE-FRENCH ("A" SIZE PC7-P)
LABEL-HOT WHIPPED-FRENCH ("A" SIZE PC7-P)

PLATE COST TO BE CHARGED TO ENGINEERING ACCOUNT #64300-16010.

DEMAND TO BE PLACED BY SALES DEPARTMENT WHEN KIT IS REQUIRED.

DISPOSITION OF STOCK:

NOT APPLICABLE.

STRUCTURE REVISIONS:

STRUCTURE NEW KIT AND ALL ASSEMBLIES PER DRAWINGS.

KIT-UOT CUOCOLATE EDENCUACEDMAN

ADD ALL NEW PARTS AND ASSEMBLIES TO ITEM MASTER FILE.

APPROVALS:

ENGINEERING MANAGER

ENGINEERING

J. GARVELS

PREPARED BY

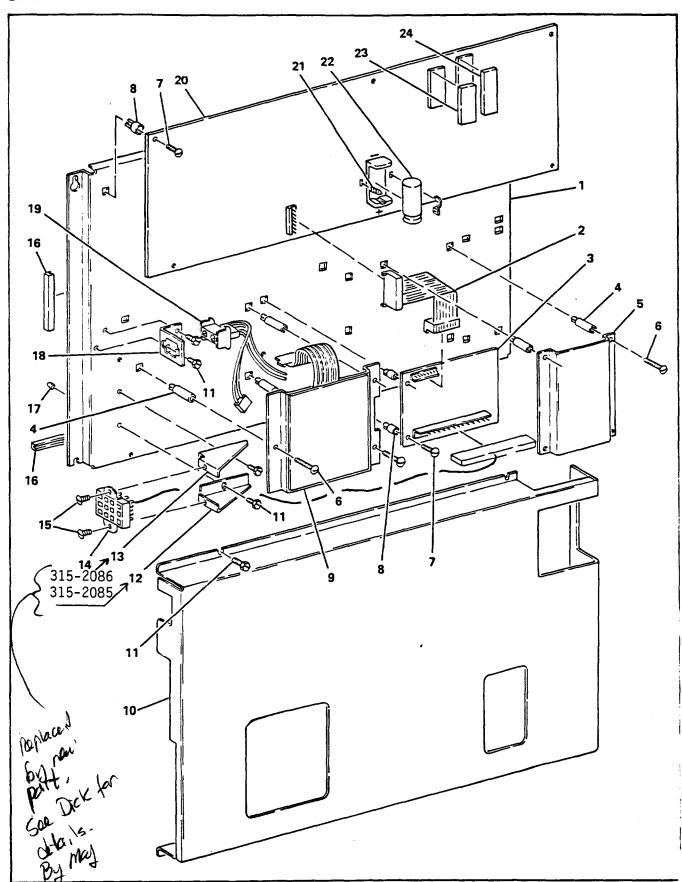
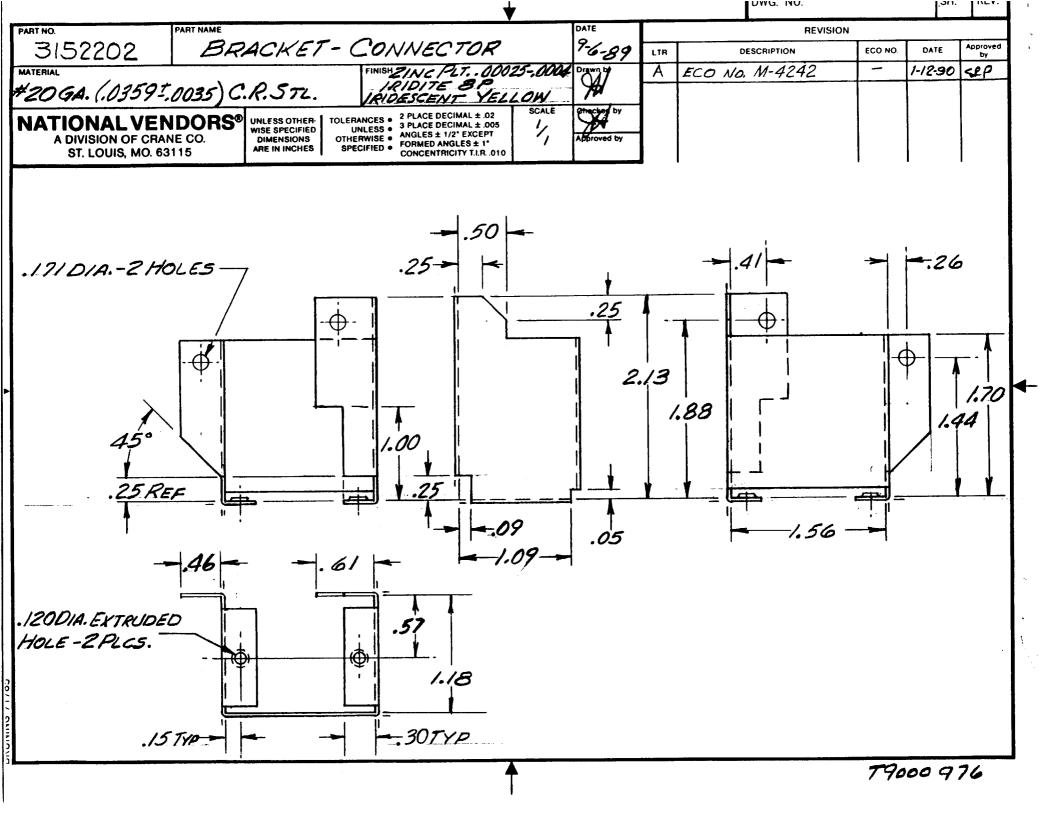


Figure 4-10. PCB & Component Assembly



INSTEUDIOUS PM 4730017

1) ADDITIONS TO PARTS LIST FOR FOREIGH

998 9507 SHLANT - 2 PIN 1 BAG 4732055 LABEL - HOT CHOC. - FR 1 BAG 4732056 LABEL - HOT WHIPPED - FR 1 BAG

(Illustration is complete)

1) Parise page nunders to include should middle should middle m

- 3 Revise parts list as marked
- @ Nevise instruction part numbers in page tookers.
- (5) Change Kit P/N to 473 1333 (6) Change Kit Titleto makile Francis / Greens Application on the sacral line.

CHECK THE PARTS RECEIVED IN THE KIT WITH THE PARTS LIST IN THESE INSTRUCTIONS. IF ANY PARTS ARE MISSING,

CONTACT NATIONAL VENDORS' PARTS DEPARTMENT IMMEDIATELY.

Read these instructions carefully before installing the kit. Retain these instructions for part numbers and for future reference.

This kit contains the following:

ø	PART NUMBER	DESCRIPTION	QUANTITY
01	2 36 6055	Speed Clip, Compression Ring	2 BAG
136	3106155	Bushing, Snap	1 BAG
	3157060	Screw, #8-32 x .31 Hex W/Hd - T/F	5 BAG
2012	3 6 17032 ~	Locator, Canister, Foreign	1 346
3	3617033	Vent Assembly	1 13 8 6
μ,	4700000	Instructions, Installation 473001	7 1 BAG
1 thes	4731059	Motor Assembly, 200 RPM	1 KIT
1 1	4731105~	Shelf, Canister	1 KIT
	4731285,	Bracket, Pressure Gauge	1 BAG
X 0	4731306	Harness, Hot Chocolate	1 BAG
562mBL 11015.	4 73130 7	IC, Programmed, 38 7 02. 4731331 KIT #1	1 Bas
TUBE ASSEM	4731008	IC, Programmed, -RS 8 oz. 473 1332 KIT HZ	· 1 Bro
, 10°	4731311	Canister Assembly, Chocolate	1 KIT
, & j	4732052	Label, Hot Chocolate 4732054	
L	4751027	Bracket, Mounting, Bowl	1 417
9,6	4751029	Shelf, Canister	1 KIT
2 2	6107194	Seal, Bushing_	1 Bra
il ii.	6107195	Housing, Impeller	l ens
2 R	6107197	Impeller	1 1300
	6107198	Spring Assembly, Thrust, Impeller	l Bas
1 OF	6111054	Clamp, Hose 19/32	1 BAG
	6117010	Spout, Dispensing	1 pes
Pret Revision	6117011	Caplug, Spout	1 1306
15 9	6137074	"CHOCOLATE" Label	1 BAG
	6137076	"SUGAR" Label	1 BAG
7 2	6137077	"LIGHT" Label	1806
9.2	6137114	Funnel, Impeller	1 Bes
NESTO	6157054	Motor and Plate Assembly, Chocolate Whipper	1 KIT
4 3	6157057	Screw, Shoulder	4 Bac
•	6207003 /	Retainer, Canister, Rght Hand	1 Bes
	6 50 8053 /	Tube, .38 ID x .56 OD x 8.25 long	1 Bas 3 Bas
	9 90 0138	Screw, #8-32 x 1/4 PHS	2 Bag
4	9900081	Nut, #8-32 W L/W	2 BAG
7.	9 90 0168 ⁷	Screw, #8-32 x 3/8 - THS	C 1110

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REMOVING THE OLD PRESSURE GAUGE MOUNTING BRACKET

Refer to Figure 1.

- 1. Disconnect the tube from the bottom of the air pressure gauge.
- 2. Remove the pressure gauge.
- 3. Remove the screw that secures the bracket to the coffee module panel.
- 4. Remove the bracket.

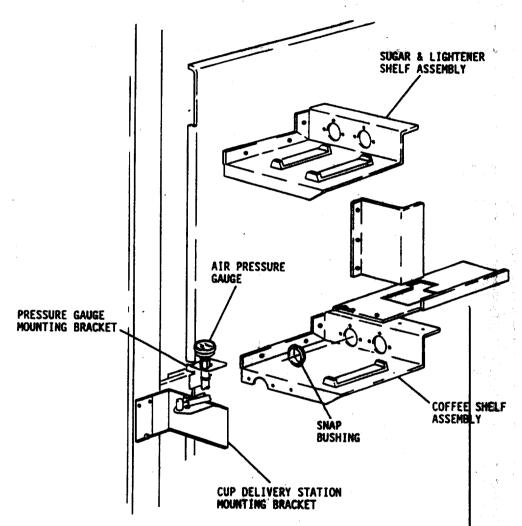


FIGURE 1. Original Assembly Locations

INSTALLING THE NEW SUGAR AND LIGHTENER SHELF

Refer to figure 2.

- 1. Remove the sugar and lightener canisters.
- 2. Disconnect the vent hose from the sugar and lightener vent assembly.
- 3. Disconnect the water inlet tube from the vent assembly.
- 4. Remove the vent assembly.
- 5. Remove the two knurled screws that secure the mixing bowl to the mounting bracket.

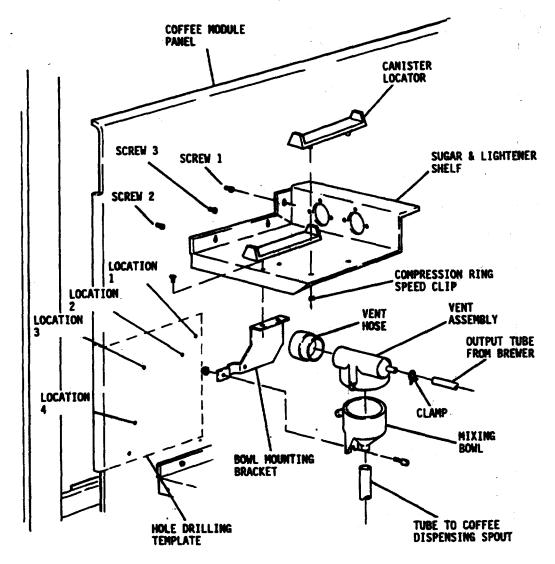


FIGURE 2. Assembly of New Sugar & Lightener Shelf

- 6. Remove the sugar and lightener mixing bowl.
- 7. Disconnect the sugar and lightener dispenser motors from the coffee module harness.
- 8. Remove the screw and clamp that secure the "Y" and tube assembly to the front right corner of the sugar and lightener canister shelf.
- 9. Loosen screws 1 and 2 and remove screw 3.
- 10. Lift up and remove the shelf and motor assembly.
- 11. Remove the lightener motor from the old shelf and install it on the new shelf.
- 12. Remove the sugar motor from the old shelf and install it on the new shelf.
- 13. Secure the bowl mounting bracket to the new shelf. Use the #8-32 x 3/8 THS screws included in the kit.
- 14. Remove the sugar canister retainer from the old shelf and install it on the new shelf.
- 15. Remove the lightener canister retainer from the old shelf and install it on the new shelf.

- 16. Remove the sugar canister locator after removing the two compression ring speed clips that secure it to the old shelf. Install this canister locator on the new shelf.
- 17. Remove the lightener canister locator after removing the two compression ring speed clips that secure it to the old shelf. Install the canister locator on the new shelf.
- 18. Place the new shelf assembly over the two mounting screws on the coffee module panel and lower into position.
- 19. Replace screw 3 and tighten all three screws.
- 20. Secure the "Y" and tube assembly to the new shelf. Position the assembly in a location similar to the original location.
- 21. Reconnect the sugar and lightener motors to the coffee module harness.
- 22. Secure the mixing bowl to the new bowl mounting bracket.
- 23. Install the new vent assembly on the mixing bowl.
- 24. Connect the vent hose to the new vent assembly.
- 25. Connect the tube from the output of the brewer to the new vent assembly. Secure the tube to the vent assembly using the clamp removed previously.

ASSEMBLING THE HOT CHOCOLATE SHELF UNIT

Refer to Figure 3.

- 1. Secure the chocolate dispenser motor to the hot chocolate shelf. Use the three #8-32 x 1/4 pan head screws included in the kit.
- 2. Secure the canister locator to the shelf. Use the two compression ring speed clips included in the kit.
- 3. Secure the whipper motor and plate assembly to the shelf. Use the four shoulder screws included in the kit.
- 4. Install the seal bushing, impeller, impeller thrust spring assembly and the impeller housing as shown.
- 5. Install the canister retainer in the position shown.
- 6. Insert the impeller funnel in the top of the impeller housing.

INSTALLING THE HOT CHOCOLATE SHELF

- 1. Tape the hole drilling template to the coffee module panel. Place it in the position shown. Refer to Figure 2.
- 2. Center punch the panel at the four hole locations marked on the template.
- 3. Drill a 9/64 (.1406) hole at each location.
- 4. Remove the tape and the template.
- 5. Carefully examine the cabinet and remove all of the metal chips created by the drilling.
- 6. Partially install screws at locations 1 and 3 as shown. Use two of the #8-32 x .31 hex, washer head, thread forming screws.
- 7. Mount the chocolate dispenser motor as shown.
- 8. Mount the whipper motor assembly as shown.
- 9. Connect the hot chocolate kit harness to the whipper motor and to the chocolate dispenser motor.
- 10. Secure the whipper motor ground lead to the chocolate shelf at the location shown in Figure 3. Use one of the #8-32 x .31 Hex W/Head screws.
- 11. Place the chocolate shelf over the two mounting screws and lower into position. Refer to Figures 2 and 3.
- 12. Install the remaining #8-32 \times .31 Hex W/Head screw at location 2. 13. Tighten all four shelf mounting screws.

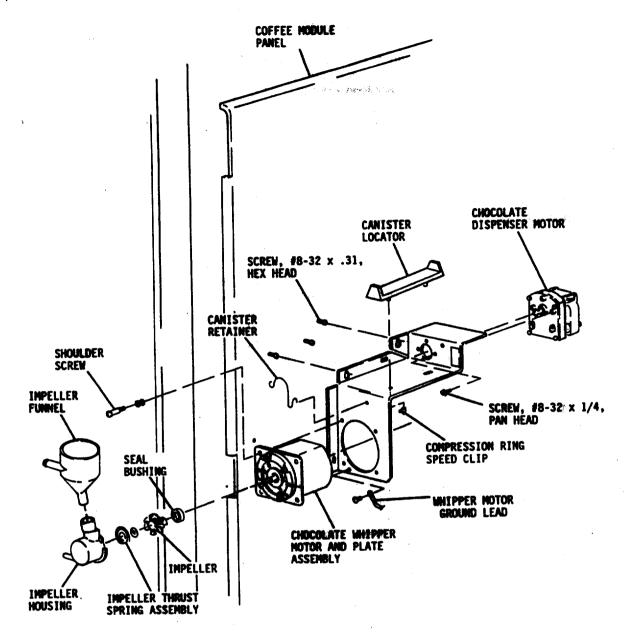


FIGURE 3. Assembly of Hot Chocolate Shelf Module

CONNECTING THE HOT CHOCOLATE KIT HARNESS

- 1. Disconnect the coffee and hot water dispensing spouts from the cup delivery station mounting bracket assembly.
- 2. Remove the cup delivery station.
- 3. Remove the cup delivery station mounting bracket assembly.
- 4. Disconnect all tubes from the brewer.
- 5. Remove the brewer from the cabinet.
- 6. Install the snap bushing in the large hole to the left of the coffee dispenser motor.

VARNING

Disconnect the merchandiser from its power source before you complete the rest of this installation procedure. Failure to do so may result in personal injury.

7. One of the remaining ends of the hot chocolate harness has only one connector. Feed this connector through the hole with the new bushing.

NOTE

The coffee module harness was designed to accommodate a second brewed selection. This second selection has never been used. As a result, there is an unused connector behind the coffee shelf.

8. Join the unused connector with the end of the harness which was passed through the coffee shelf in step 7.

NOTE

There is an orange and a yellow lead in the remaining branch of the harness. Each of these leads ends in two connectors.

WARNING

Allow the water tank to cool down before you complete the harness installation. Failure to do so may result in personal injury.

- 9. Disconnect one of the leads from the top water valve.
- 10. Join this lead to the mating connector for the wire of the same color in the hot chocolate harness.
- 11. Join the other connector for this wire color to the available terminal on the water valve.
- 12. Repeat steps 9-11 for the other lead connected to the top water valve.
- 13. Replace the brewer.
- 14. Replace the cup delivery compartment mounting bracket assembly.

INSTALLING THE NEW EPROM

CAUTION

Electro-Static-Discharge control procedures should be followed when handling and installing the EPROM. Failure to do so may damage the EPROM.

1. Loosen the screw to the left of the service panel.

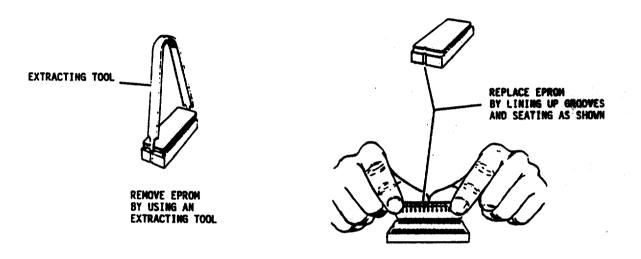
2. Slide the service panel forward.

3. Remove the two outer screws on the front of the panel.

4. Remove the two screws from the back of the panel.

5. Carefully remove the service panel cover.

6. Remove EPROM U6.



NOTE

Two EPROMS are supplied with this kit. Part number 4731307 is used for 7 oz. cup applications. Part number 4731308 is used for 8.25 oz. cup applications.

- 7. Install the new EPROM for the desired cup size.
- 8. Carefully replace the service panel cover and secure it with the four screws removed previously.
- 9. Slide the service panel back into place and secure by tightening the screw on the left side.

INSTALLIME THE NEW PRESSURE GAUGE BRACKET

- 1. Install the new pressure gauge bracket in the place previously occupied by the old bracket. Use the screw previously removed to secure the new bracket to the coffee module panel.
- 2. Insert the gauge through the front hole in the bracket.
- 3. Rotate the gauge until the face of the dial is in an easy to read position.
- 4. Reconnect the vacuum tube to the bottom of the gauge. Secure the tube with the clamp used previously.

COMPLETING THE INSTALLATION

1. The tube from the top water valve should be routed to the chocolate impeller funnel.

CAUTION

The tube must be routed so there are no traps which could retain water between vend cycles.

- 2. Cut the tube to length as required by the routing.
- 3. Slide the hose clamp over the free end of this tube.
- 4. Connect the tube to the funnel and slide the clamp into position so the tube is held in place.
- 5. A length of tubing is included in the kit. Connect one end of this tube to the bottom of the chocolate impeller housing.
- 6. Connect the other end of this tube to the dispensing spout included in the kit.
- 7. Install this dispensing spout in the dispensing spout mounting bracket.
- 8. Install the coffee dispensing spout in the bracket also.
- 9. Install the spout caplug in the top of the hot chocolate dispensing spout.
- 10. Connect the brew water tube to the top of the brew barrel.
- 11. Connect the vacuum tube to the top of the brew barrel.
- 12. Replace the cup station.
- 13. Install the SUGAR and LIGHT labels on the new sugar and lightener shelf. Use the old shelf as a guide for placing these labels on the new shelf.
- 14. Similarly, install the CHOCOLATE label on the hot chocolate shelf.
- 15. Install the HOT CHOC label on the front of the door. It should be placed over the words "HOT WATER".
- 16. Load the canisters with the appropriate products and place them on their shelves.

SETTING DRY INGREDIENT TIMES

The amount of dry ingredient dispensed is controlled by using the DIP switches on the service panel. The switches control the amount of time that the dispensing motors operate. The amount of ingredient dispensed increases as the time increases. Different brands of ingredient require different amounts to produce the desired taste. Therefore it is necessary to experiment in order to identify the best time for your installation. For both of the cup sizes, each ingredient has a set of four times. The correct switch settings for these times are shown in the tables that follow.

7 oz CUP INGREDIENT TIMES

COFFEE SWITCH 1 UP DOWN UP 2.00 2.50 DOWN 2.35 2.70

,	CHUCULATE	2#1	ich 3
	,	UP	DOWN
유	UP	2.70	4.50
SWITCH	DOWN	2.90	5.30

CUACAL ATE

	SUGAR	SWITCH 5		
		UP	DOWN	
9 #3	UP	1.50	1.95	
SWITCH	DOWN	1.65	2.30	

LIGHTENER		SWITCH 7	
		UP	DOWN
8 H)	UP	1.60	2.35
SWITCH 8	DOWN	1.95	2.70

8.25 oz CUP INGREDIENT TIMES

COFFEE		SWIT	CH 1
		UP	DOWN
СН 2	UP	2.50	2.90
SWITCH	DOWN	2.70	3.20

CHOCOLATE		SWITCH 3	
		UP	DOWN
EH.	UP	3.10	5.30
SWITCH	DOWN	3.35	6.20

SUGAR		SWIT	CH 5
		UP	DOWN
9 H	UP	1.50	1.95
SWITCH	DOWN	1.65	2.30

LIGHTENER		SWIT	TCH 7
		UP	DOWN
CH 8	UP	1.60	2.35
SWITCH	DOWN	1.95	2.70

AIR COMPRESSOR TIME

The air compressor operating cycle time is now fixed at 10 seconds.

SETTING WATER VOLUME

The water valves remain open for a fixed amount of time. This time is controlled by the software. The volume can be adjusted within a narrow range by adjusting the water valve. Refer to "Adjustment of the In-Cup Water and Coffee Beverage Throw" in the <u>REFRESHTRON 3 Set-Up Manual</u>. Water volume should be set as follows:

	CUP SI	ZE
а	7 oz	8.25 oz
COFFEE	165-175 ml	195-205 ml
CHOCOLATE	140-150 ml	165-205 ml

TEST THROW PROCEDURE FOR CHOCOLATE INGREDIENT AND CHOCOLATE WATER

Two of the membrane switches on the service panel have new functions.

- * The HOT WATER switch is now used to test the volume of water dispensed for hot chocolate.
- * The DECAF PRODUCT switch is now used to test the throw weight of the chocolate ingredient.

SETTING THE HOT CHOCOLATE PRICE

Follow the price setting procedure in the <u>REFRESHTRON 3 Set-Up Manual</u>. Use G5 as the selection number for hot chocolate.

FOLD UNDER ALONG THIS LINE

HOLE DRILLING TEMPLATE

HOLE LOCATION NUMBER 3

HOLE LOCATION ____

USE A 9/64 DRILL BIT FOR ALL HOLES

HOLE LOCATION ____ NUMBER 4

CENTER OVER HOLE USED TO SECURE PRESSURE GAUGE MOUNTING BRACKET TO THE COFFEE MODULE PANEL

CUT ALONG THIS LINE

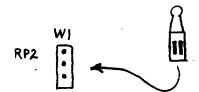
INSTRUCTION SHOCI

2. Pin Short Jumper P/h1

Kit P/N 4731333

Instructon P/N

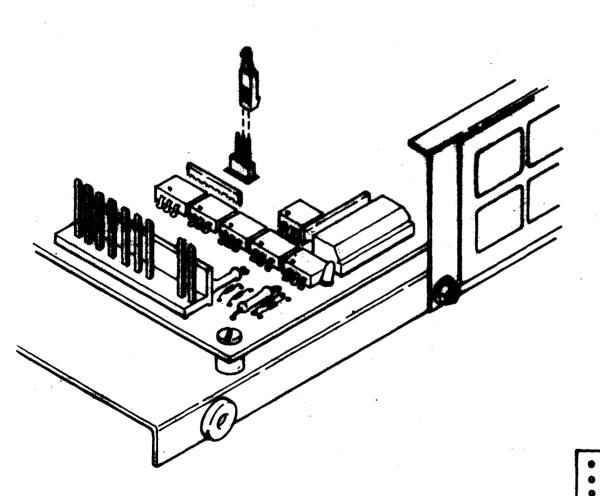
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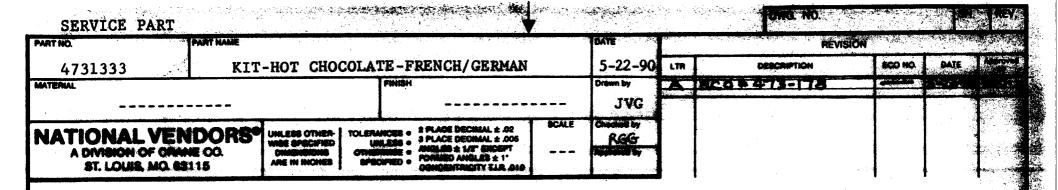


NO NO MOCCA

473

62 BL 6:





THIS KIT CONSISTS OF THE FOLLOWING:

QTY.	PART NO.	DESCRIPTION
1	4731059 ✓	MOTOR ASSY200 RPM
1	4731105√	SHELF-CANISTER
1	4751027 [√]	BRACKET-MOUNTING-BOWL
1	4751029 ×	SHELF-CANISTER
1	6157054 ✓	MOTOR & PLATE ASSYCHOC. WHIPPER
1	4731311	CANISTER ASSY CHOC PART OF THIS
1	6137101	AGITATOR-CANISTER
1	4730034	BAG ASSYHOT CHOC. KIT-FRENCH/GERMAN

PART HS.	PARTICIA	DAYE		REVISION				
4730034	BAG ASSYHOT CHO	C. KIT-FRENCH/GERMAN	5-22-90	LTR	OGSCRIPTION	ECO NO.	DATE	Approved
witerus		FRACH	Drawn by	X	1002/42/20 11.5		5:22-40	ROG
			JAG			+	 	<u> </u>
NATIONAL VE A DIVIDIÓN OF CR ST. LOWR, MO.	AME CO.	MACHE . 2 PLACE DECIMAL ± .02 NO.535 . 3 PLACE DECIMAL ± .005 NO.535 . AVIOLES ± 1/2 EXCEPT OUTSING POMOSMONTY TAR .010	RGG					

THIS ASSEMBLY CONSISTS OF THE FOLLOWING:

QUANTITY	PART NO.	DESCRIPTION
1		PLASTIC BAG (PACKING MAT'LS.)
2	2366055 🗸	SPEED CLIP-COMP. RING
1 .	3106155 🗸	BUSHING
5	3157060 ✓	SCREW-#8-32 X .31 HEX W/HD. SLOT-T/F
1	3617032 ✓	CANISTER LOCATOR-FOREIGN
1	3617033 🗸	VENT ASSEMBLY
1	4730017 ✓	INSTRUCTIONS-HOT CHOCGER./FR.
1	4731285 V	BRACKET-PRESSURE GAGE
1	4731306 ✓	HARNESS-HOT CHOC.
1	4731331 🗸	IC ASSYPROGFRCHOC. KIT #1
1	4731332 🗸	IC ASSYPROGFRCHOC. KIT #2
1	4732054 🗸	LABEL-HOT CHOCGER.
1	6107194√	BUSHING-SEAL
1	6107195 🗸	HOUSING-IMPELLER
1	6107197 🗸	IMPELLER
1	6107198 🗸	SPRING ASSYTHRUST
1	6111054 🗸	CLAMP-HOSE-19/32
1	6117010 ✓	SPOUT-DISPENSING
1	6117011✓	CAPLUG-SPOUT
1	6137074 ✓	LABEL-CHOC.
1	6137076 √	LABEL-SUGAR
1	6137077 v	LABEL-LIGHTENER
1	6137114 🗸	FUNNEL
4	6157057~	SCREW-SHOULDER
1	6207003 🗸	RETAINER-CANISTER-R.H.
1	6508053×	TUBE38 I.D. X .56 O.D. X 8.25 LG.
2	9900081✓	NUT-#8-32 KEPS
3	9900138✓	SCREW-#8-32 X 1/4 PHS W/L.W.
ζ <u>2</u>	9900168✓	SCREW-#8-32 X 3/8 THS
1	9989507 🗸	SHUNT 2 PIN
1	4732055 🗸 👵	LABEL-HOT CHOCFR.
1	4732056 √	LABEL-HOT WHIPPED-FR.

BRUNNING 71785 PORM # 1797

THIS DRAWING PROVIDES FOR THE PROGRAMMING OF PART NUMBER 9980004 (MEMORY LOCATIONS 80/FFF).

- 1. USE N.V. ENGINEERING PRIMARY STANDARD IDENTIFIED AS: MASTER 4731330.
- 2. SOFTWARE REFERENCES: AL473-502B1.
- 3. AFTER PROGRAMMING, AFFIX LABEL, P/N 9985248 (PRINTED AS SHOWN BELOW), SO AS TO COMPLETELY COVER WINDOW.
- 4. PACKAGE FOR STORES AND PRODUCTION USING SUITABLE "STATIC PROTECTION METHODS".

LABEL TO BE PRINTED AS FOLLOWS:

4731330 VER502B1 U6 THIS DRAWING PROVIDES FOR THE PROGRAMMING OF PART NUMBER 9980004 (MEMORY LOCATIONS 80/FFF).

- 1. USE N.V. ENGINEERING PRIMARY STANDARD IDENTIFIED AS: MASTER 4731331.
- 2. SOFTWARE REFERENCES: AL473-CHOC. FR. #1.
- 3. AFTER PROGRAMMING, AFFIX LABEL, P/N 9985248 (PRINTED AS SHOWN BELOW), SO AS TO COMPLETELY COVER WINDOW.
- 4. PACKAGE FOR STORES AND PRODUCTION USING SUITABLE "STATIC PROTECTION METHODS".

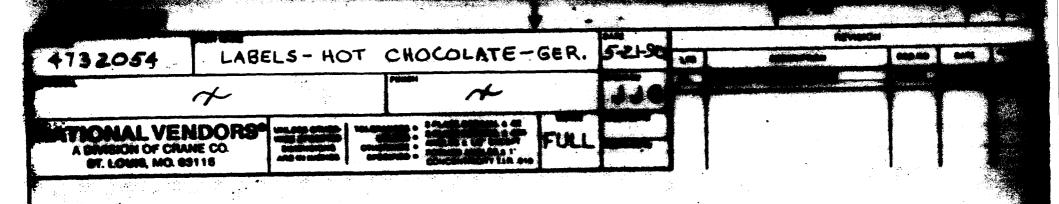
LABEL TO BE PRINTED AS FOLLOWS:

4731331 VER CHOC. FR. #1 U6 THIS DRAWING PROVIDES FOR THE PROGRAMMING OF PART NUMBER 9980004 (MEMORY LOCATIONS 80/FFF).

- 1. USE N.V. ENGINEERING PRIMARY STANDARD IDENTIFIED AS: MASTER 4731332.
- 2. SOFTWARE REFERENCES: AL473-CHOC. FR. #2.
- 3. AFTER PROGRAMMING, AFFIX LABEL, P/N 9985248 (PRINTED AS SHOWN BELOW), SO AS TO COMPLETELY COVER WINDOW.
- 4. PACKAGE FOR STORES AND PRODUCTION USING SUITABLE "STATIC PROTECTION METHODS".

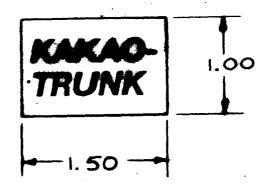
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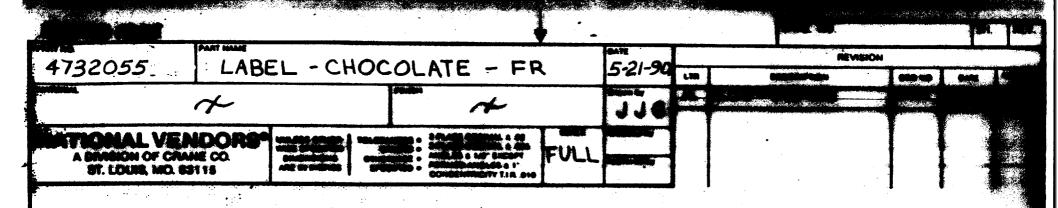
4731332 VER CHOC. FR. #2 U6



MATERIAL:

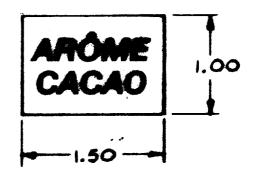
- 1.3M-7331 MATTE WHITE POLYESTER OR ENG. APPROVED EQUIV.
- 2. LABBLS TO BE PRINTED OR SILKSCREENED ONE COLOR BLACK, REVERSE COPY. ARTWORK TO BE SUPPLIED BY NATIONAL VENDORS.
- 3. LABELS TO BE SUPPLIED ON CONTINUOUS PAPER BACKING. MUST RETAIN GOOD ADHESIVE CHARACTERISTICS AS PACKAGED FOR UP TO 18 MONTHS STORAGE AND MUST PEEL FREE OF BACKING.



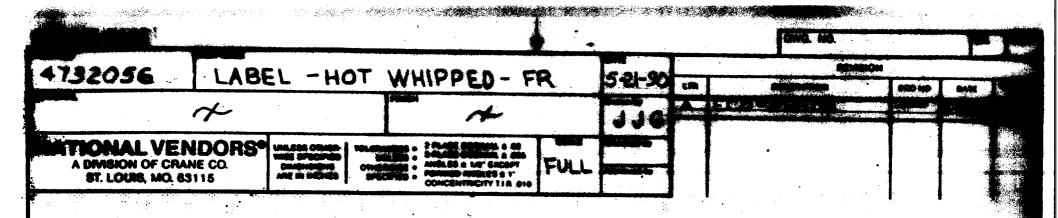


MATERIAL:

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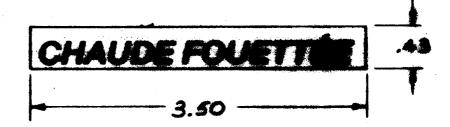


BRUNING 71785



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BRUNING 71785