OPERATING MANUAL

EX618 – EX670
EXSM665 – 680
E/W/SU620 – E/W675
Selecta, Emerald

Operating manual

EX618 – EX670
EXSM665 – 680
E/W/SU620 – E/W675

Selecta, Emerald

WARNING: ALL OPERATING AND MAINTENANCE PROCEDURES SHOWN ON THE NEXT PAGE OF THIS MANUAL MUST BE FOLLOWED DAILY FOR PROPER OPERATION OF YOUR WASCOMAT MACHINE.

PLEASE ENTER THE FOLLOWING INFORMATION AS IT APPEARS ON THE MACHINE(S) DATA PLATE(S).

MACHINE TYPE OR MODEL	
MACHINE SERIAL NUMBER(S)	
ELECTRICAL CHARACTERISTICS: _____ VOLTS, _____ PHASE, _____ HZ.	

MAKE CERTAIN TO KEEP THIS MANUAL IN A SECURE PLACE FOR FUTURE REFERENCE.

c ETL us
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SAFETY AND WARNINGS SIGNS

Replace If Missing Or Illegible

One or more of these signs must be affixed on each machine as indicated, when not included as part of the front instruction panel.

LOCATED ON THE OPERATING INSTRUCTION SIGN OF THE MACHINE:

CAUTION

1. Do not open washer door until cycle is completed, operating light is off, and wash cylinder has stopped rotating.
2. Do not tamper with the door safety switch or door lock.
3. Do not attempt to open door or place hands into washer to remove or add clothes during operation. This can cause serious injury.

MACHINE MUST NOT BE USED BY CHILDREN

PRECAUCION

1. No abra la puerta de la máquina lavadora sino hasta que la máquina haya terminado su ciclo, la luz operativa esté apagada y el cilindro de lavado haya completamento terminado de girar.
2. No interferia o manipule el switch o la cerradura de la puerta.
3. No trate de abrir la puerta o meta las manos dentro de la máquina para meter o sacar ropa mientras la máquina está en operación, pues puede resultar seriamento herido.

LAS MÁQUINAS NO DEBEN SER USADAS POR NIÑOS

LOCATED AT THE REAR OF THE MACHINE:

INSTALLATION AND
MAINTENANCE WARNINGS – *AVERTISSEMENT*

1. This machine MUST be securely bolted according to the installation instructions, to reduce the risk of fire and to prevent serious injury, or damage to the machine.
   Pour reduire les risques d'incendie, fixer cet appareil sur un plancher beton sans revetement.
2. If installed on a floor of combustible material, the floor area below this machine must be covered by a metal sheet extending to the outer edges of the machine.
3. This machine MUST be connected to a dedicated electrical circuit to which no other lightning unit or general purpose receptacle is connected. Use copper conductor only.
   Utiliser seulement des conducteurs en cuivre.
4. This machine MUST be serviced and operated in compliance with manufacturer's instructions. CHECK DOOR LOCK EVERY DAY FOR PROPER OPERATION TO PREVENT INJURY OR DAMAGE. IF THE DOOR LOCK FAILS TO OPERATE PROPERLY, PLACE THE MACHINE OUT OF ORDER UNTIL THE PROBLEM IS CORRECTED.
5. Disconnect power prior to servicing of machine.
   Deconnecter cet appareil del'alimentation avant de proceder a l'entretien.
6. To remove top panel, first remove screws at the rear. When remounting the top, reinstall them. To remove the top panel on models on which it is secured by one or two keylocks, use the keys provided in the drum package. Be certain to relock after remounting the top panel.

MANUFACTURED BY WASCATOR
DISTRIBUTED BY WASCOMAT, INWOOD, NEW YORK, USA

471 766202-04

LOCATED ON THE DOOR:

If you need to order more safety or warning signs, call Wascomat's parts department at 516-371-2000, or call your local dealer.
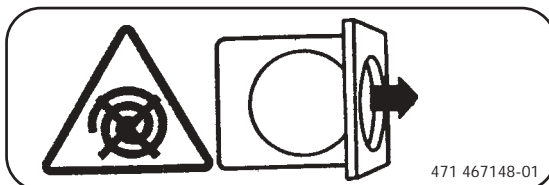
471 467148-01

NOTICE TO: OWNERS, OPERATORS AND DEALERS OF WASCOMAT MACHINES

IMPROPER INSTALLATION AND INADEQUATE MAINTENANCE, POOR HOUSEKEEPING AND WILLFUL NEGLECT OR BYPASSING OF SAFETY DEVICES MAY RESULT IN SERIOUS ACCIDENTS OR INJURY. TO ASSURE THE SAFETY OF CUSTOMERS AND/OR OPERATORS OF YOUR MACHINE, THE FOLLOWING MAINTENANCE CHECKS MUST BE PERFORMED ON A DAILY BASIS.

1. Prior to operation of the machine, check to make certain that all operating instructions and warning signs are affixed to the machine and legible. (See the following page of this manual for description and location of the signs.) Missing or illegible ones must be replaced immediately. Be sure you have spare signs and labels available at all times. These can be obtained from your dealer or Wascomat.

2. Check the door safety interlock, as follows:

    (a) OPEN THE DOOR of the machine and attempt to start in the normal manner:

         For CLARUS microprocessor models, choose a program and press the START button.

THE MACHINE(S) MUST NOT START !

    (b) CLOSE THE DOOR to start machine operation and, while it is operating, attempt to open the door without exerting extreme force on the door handle. The door should remain locked!

         If the machine can start with the door open, or can continue to operate with the door unlocked, the door interlock is no longer operating properly. The machine must be placed out of order and the interlock immediately repaired or replaced. (See the door interlock section of the manual.)

3. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO BYPASS OR REWIRE ANY OF THE MACHINE'S SAFETY DEVICES, AS THIS CAN RESULT IN SERIOUS ACCIDENTS.

4. **Be sure to keep the machine(s) in proper working order**: Follow **all** maintenance and safety procedures. Further information regarding machine safety, service and parts can be obtained from your dealer or from Wascomat through its Technical Support Department - 516/371-0700.

All requests for assistance must include the model, serial number and electrical characteristics as they appear on the machine identification plate. Insert this information in the space provided on the previous page of this manual.

5. **WARNING**: DO NOT OPERATE MACHINE(S) WITH SAFETY DEVICES BYPASSED, REWIRED OR INOPERATIVE! DO NOT OPEN MACHINE DOOR UNTIL DRUM HAS STOPPED ROTATING!

Contents

Encl. Hospitality wash programs, Selecta
wash programs, Emerald

The manufacturer reserves the right to make changes to design, material
and/or specifications without notice.

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The electronic program unit controls the various functions of the machine in a certain time sequence with the aid of five built-in standard programs. The standard programs can also be modified by selecting various options. By selecting options, the user has access to programs for all types of wash loads and degrees of soiling.

Fig. 1 The control panel consists of program selection buttons (A), option buttons (B), a combined start, pause and rapid advance button (C), symbols with LEDs (D) which show the program selected and the program sequence, plus an alphanumeric display (E).

The alphanumeric display shows illuminated green characters.

In the event of faults, error codes will be displayed on this window. See Fault codes section of this manual.

Explanation of control panel

A Program selection buttons

B Option buttons

C Start/pause and rapid advance button

D Symbols with LEDs to indicate program selected and programsequence

E Display (for useful information)

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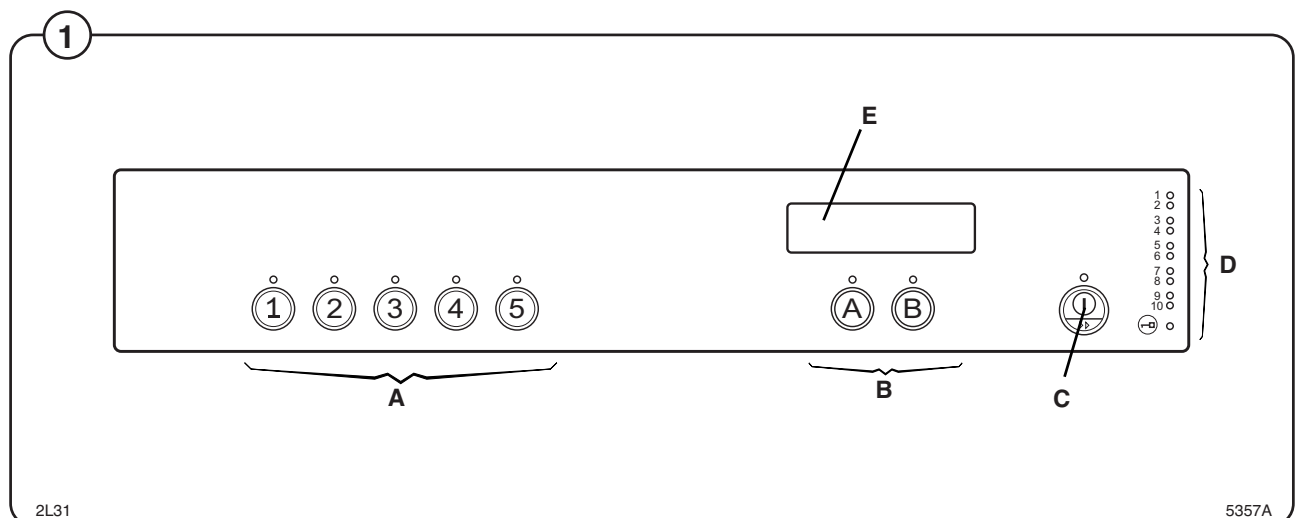
Washing

• Press the button for the program required.

• The the LEDs alongside the program symbols will show what the selected program consists of.

• Press the button(s) for any options required. Regarding function, see program descriptions.

5116, 5117, 5118, 5119, 5120

5355A

5362

5363
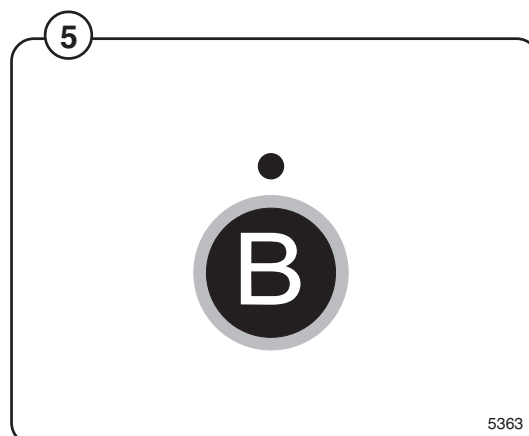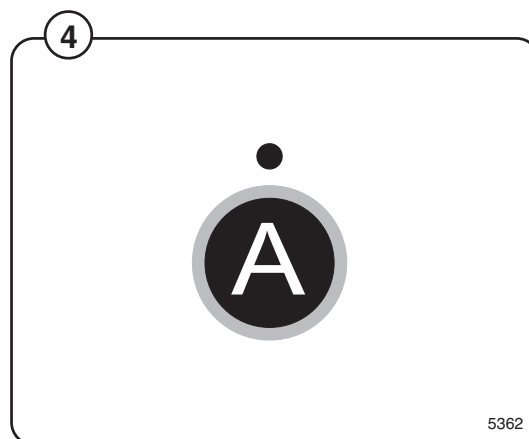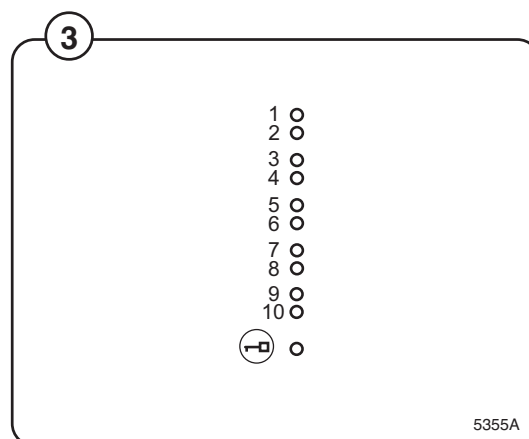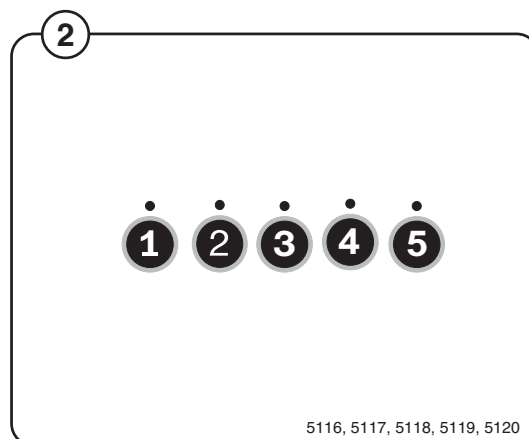
Fig.
6

- Add the correct amount of detergent and fabric softener as recommended by their manufacturers.

  Compartment 1 – Pre wash, powder or liquid detergent

  Compartment 2 – Main wash, powder detergent

  Compartment 3 – Softener

  Compartment 4 – Main wash, liquid detergent
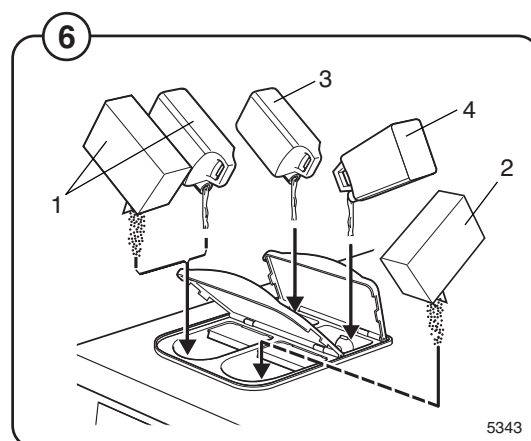
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Machine without coin-meter

Fig.
1
Fig.
2

- Press the **START** button.
- Now the display will show the clock symbol and two digits. The two digits are the time left before the wash will be finished.

> ⚠️ ⚠️
>
> **The two digits indicating time left will not appear when the machine is first installed. Each program needs to have been used at least once before the time left will be displayed.**

- For a time immediately after START is pressed the colon character (:) will flash on the display. As long as this character is still flashing a new program can be selected (without losing anything). This means you still have the chance to change the setting if the wrong program has been selected. To change the selected program after starting:

- Press **PAUSE/START**.

- Select a new program.

- Press **START** again after making any change in the program selected.

Fig.
3

If for any reason you wish to halt the wash cycle for a time, press the **START** button for a moment or two. The program will be suspended and the drain will remain closed. The indicator near the **START** button will flash while the machine is paused.

To restart the program, press the **START** button again briefly.

1

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2

3141

3

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Intentionally blank

For coin-operated machines

Fig. 1 Insert coins or token(s) corresponding to the figure shown on the display.

As each coin/token is added the machine counts backwards towards 00 on the display. The machine will not start until the display shows 00.

Fig. 2
- Press the START button.

- Now the display will show the clock symbol and two digits. The two digits are the time left before the wash will be finished.

> ⚠ ⚠
>
> **The two digits indicating time left will not appear when the machine is first installed. Each program needs to have been used at least once before the time left will be displayed.**

- For a time immediately after START is pressed the colon character (:) will flash on the display. As long as this character is still flashing a new program can be selected (without losing anything). This means you still have the chance to change the setting if the wrong program has been selected.

- Press **PAUSE/START** button.

- Select a new program.

- If the new program costs more to run than the amount already paid, the difference will be shown on the display. Insert enough coins to make the display show 00 again.

- Press **START** again after making any change in the program selected. The indicator near the START button will flash while the machine is paused.

Fig. 3
- If you wish to find out the temperature of the water while the program is in progress, press and hold any one of the program selection buttons. (Option on some markets.)

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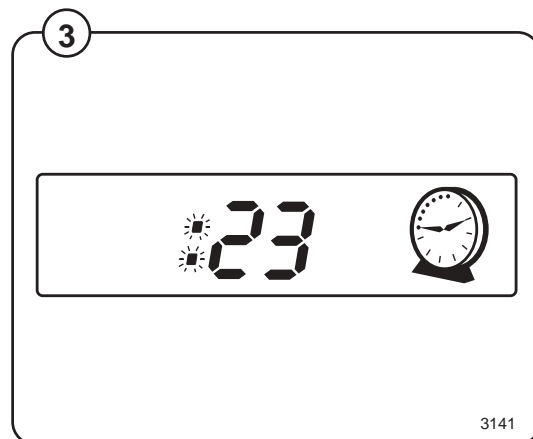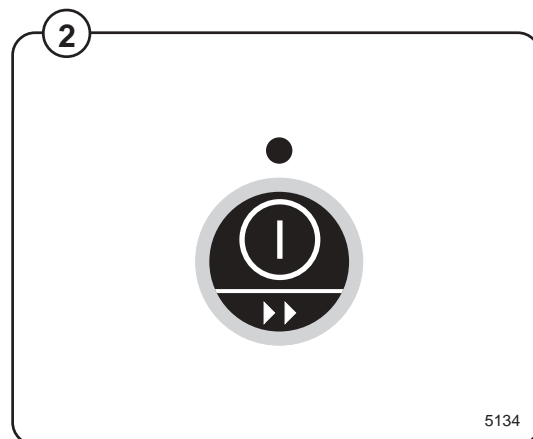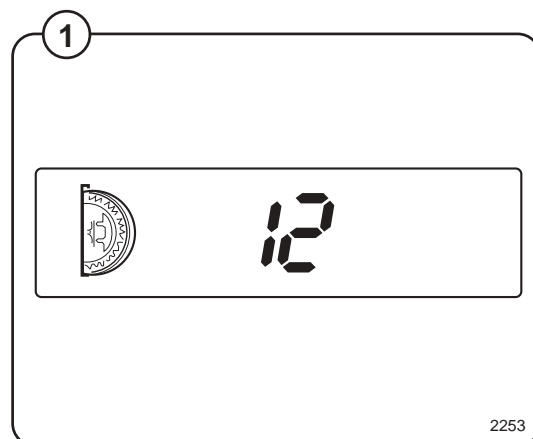
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Rapid advance

Whole steps in programs can be skipped using rapid advance.

Fig.
1
- Press and hold the **START** button until the program indicator LEDs have moved past the program steps you wish to skip.

Program end

Fig.
2
The door can be opened when the led beside the key symbol lightens up.

1

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2

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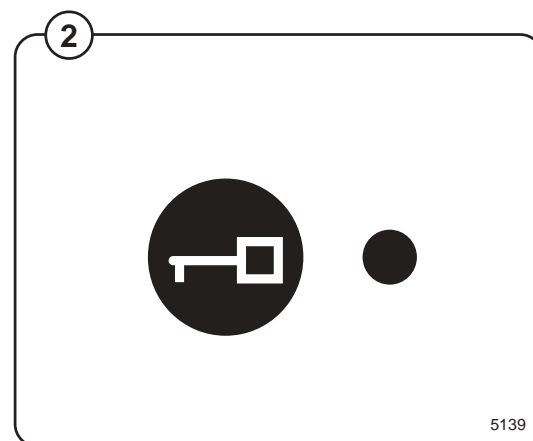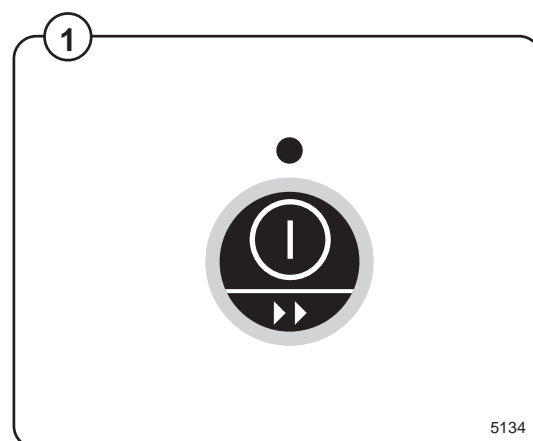
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Fault codes

If the power supply to the machine should be cut while it is working, the programmer has a memory which stores the program selected for 8 to 10 minutes.

The machine will restart automatically once the power supply is restored.

Faults/errors in the program or machine are indicated by a numerical error code on the control panel display.

In the case of error codes 01, 02 and 03, an attempt to restart the machine may be made as soon as the fault has been remedied.

For the other error codes, a service technician must be called.

2243 A
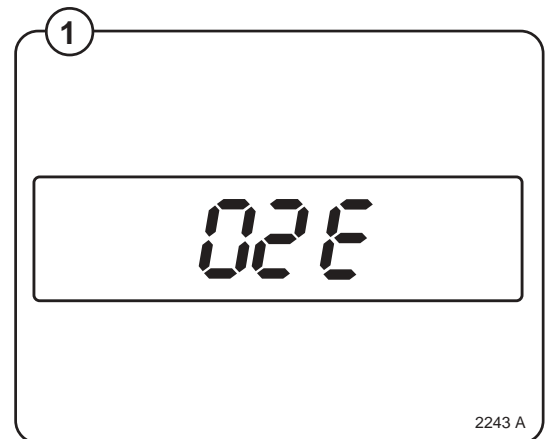
Error code	Cause/Action
01E	Acknowledgement signal for water level not received within time allowed.
02E	Door status acknowledgement signal not received during program operation.
03E	Door lock acknowledgement signal not received within time allowed.
06E	Water level signal above parameter set, on program start-up.
07E	Water level signal above parameter set for safety, during program.
10E	Water level signal is above parameter set (10 scale units) after water discharge.
12E	The program control unit cannot read the program EPROM.
13E	The program control unit receives no response from the motor control unit.
14E	Water level system not calibrated.
11E	Mechanical unbalance always activated.

Fault codes

Error code	Cause/Action
17E	Door status acknowledgement signal not received, although door lock acknowledgement signal has been received.
18E	Only with CALCAD 4400. Start not allowed because full payment has not been made for that program, or the booking time is too short to allow completion of the wash program selected.
19E	Communications between the CALCAD 4400 and the program control unit board interrupted.
20E	Motor control unit has not received signal for lock acknowledgement, during program.
21E	The electronic timer wrongly configured.
22E	The automatic calibration system for water level is not working.
31E	Temperature of motor control unit heat sink too high.
32E	Thermal protection for motor has cut out.
33E	The motor control unit has received a start command from the program control unit without having the interlock signal. No fault in motor control unit interlock hardware.
35E	Motor control unit indicating short-circuit between motor winding outputs.
36E	Motor control unit indicating fault/error in receiving circuitry for lock acknowledgement signal.
37E	Motor control unit indicating DC voltage level too low.
38E	Motor control unit indicating DC voltage level too high.
41E	The motor controller indicates an error in thermal protection circuits of the motor.
43E	The RDC card indicates the unbalance switch has triggered when motor is stopped.
45E	The RDC card indicates tacho pulses missing.

Maintenance

Daily

- Clean the door seal and remove detergent residue.

- Check that the door does not leak.

- Clean the detergent compartment and wipe down the machine with a damp cloth.

- Check that the drain valve does not leak.

- Start the machine and check that the door remains locked while the machine is operating. Fast forward the machine to the stop position and check that the door cannot be opened until the program is completed.

Every months

- Check that valves, hoses and connections do not leak.

- Remove any textile lint from the drain opening, joints in drain pipes etc.

Every third month

Accumulated chemicals on the panel ledges.

- Disconnect electrical power from the machine.

- Turn off the water supply and bleed the pressure from the supply hoses.

- Remove the water supply hoses from the rear of the machine and clean or replace the inlet screens, as needed.

- Thoroughly clean the detergent dispenser.

- Remove the top and front panels from the machine.

- To help prevent corrosion, clean accumulation of detergent and other chemicals from the panels.

- Inspect inside of machine for leaks. Repair as needed.

- Clean the door gasket.

- Reinstall top and front panels.

- Restore power and return the machine to service.

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Coin-operated machines

In coin-operated machines the prices for the various programs have to be programmed in.

Values from the coin mechanism (the accumulated value) can be read out with the aid of the service program. (Code 41 and 42).

If a machine is fitted with a coin mechanism after its original installation the relevant electronic circuitry will have to be activated before the prices can be programmed in.

> ⚠️ ⚠️
> **Only trained service personnel may use the service program and program in prices for coin operation.**

Activation of electronic circuitry in machines fitted with coin operation after original installation.

- Press the service button.

Fig. 1 Now certain of the buttons switch to being number keys (0 to 9).

5192 A

Coin meter
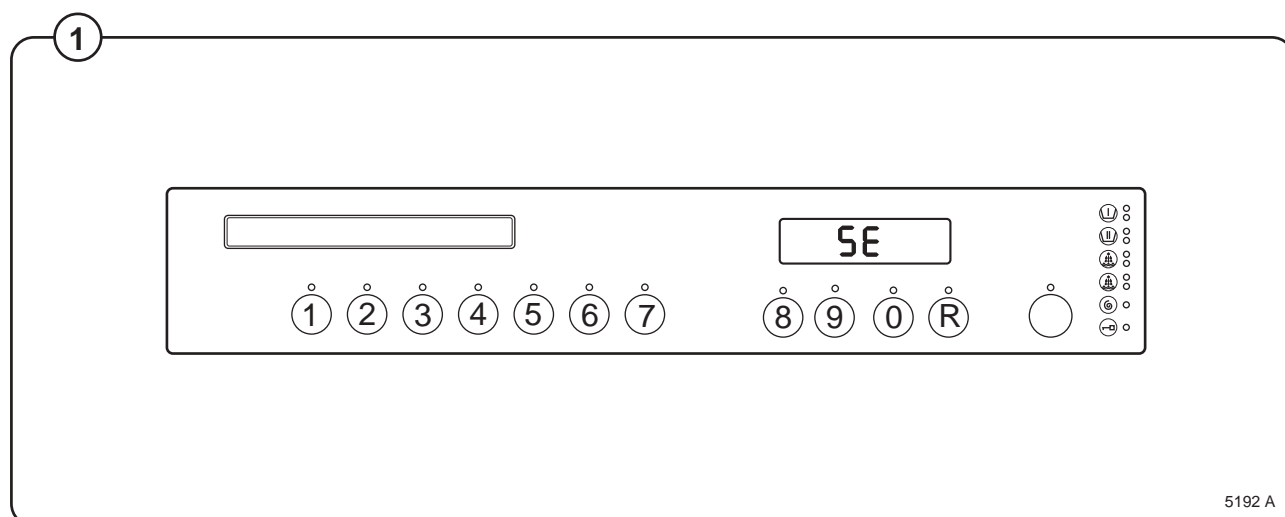
Codes 91 and 92 are used to store the values for coin slots 1 and 2. For mechanisms with only one slot, only code 91 is used.

The values to be stored are the ratio of one coin to the other, (max 3 digits).

For example: if the coin slots are for a 10 cent coin and a 50 cent coin. The value 1 should be stored under code 91, and the value 5 should be stored under code 92.

Fig. 2
- Enter code 91 using the buttons which have become number keys 9 and 1.

  The display will now show 91.

Fig. 3
- When entering the actual value: keep the price-programming button activated (the switch is located under the top cover at the right front edge). Enter the value 1 and then release the button.

Fig. 4
- Enter code 92. The display will now show 92.

Fig. 5
- Enter the value 5.

- Exit the service program by pressing the service button again.

2

91

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3

1

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4

92

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5

5

2274
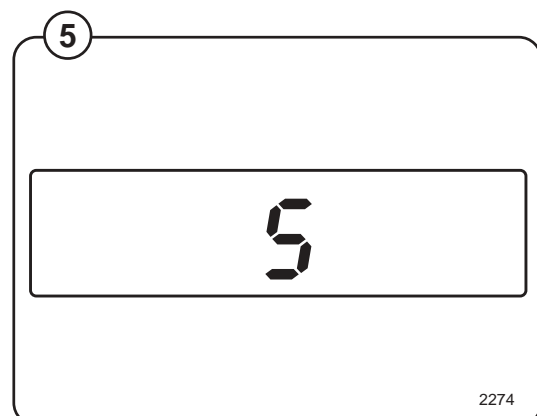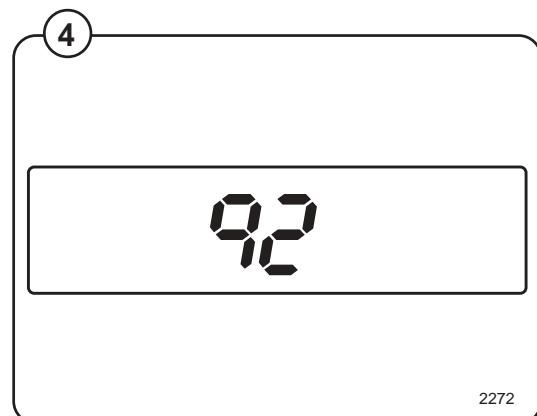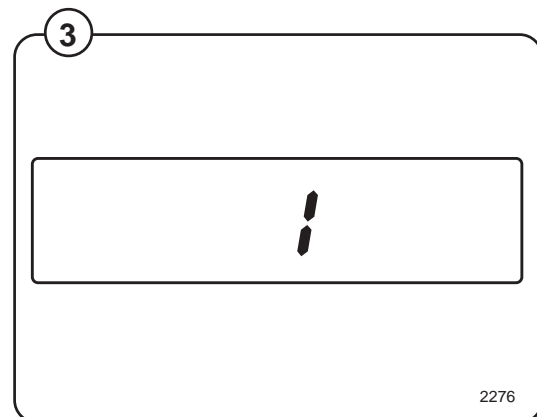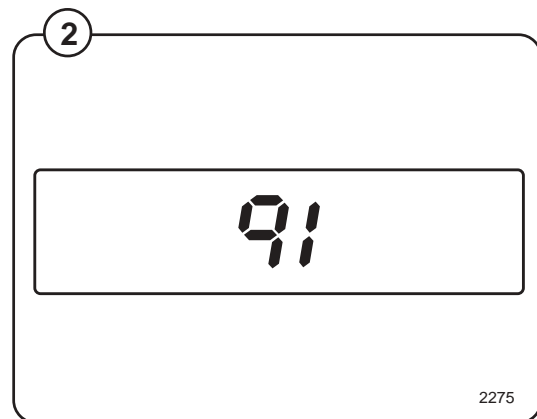
Price programming:

- Press the relevant program selector button.

When programming the price of a wash program plus option, press both the relevant program selector button and the option button.

- Keep the price-programming button activated. (The switch is placed in the compartment for the coin box).

Fig. 6 Now the display shows 00 plus the coin symbol.

Fig. 7
- Enter the price via the numerical key functions, (max 3 digits).

- Release the price-programming button.

This procedure should be repeated for all programs.

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5192 A

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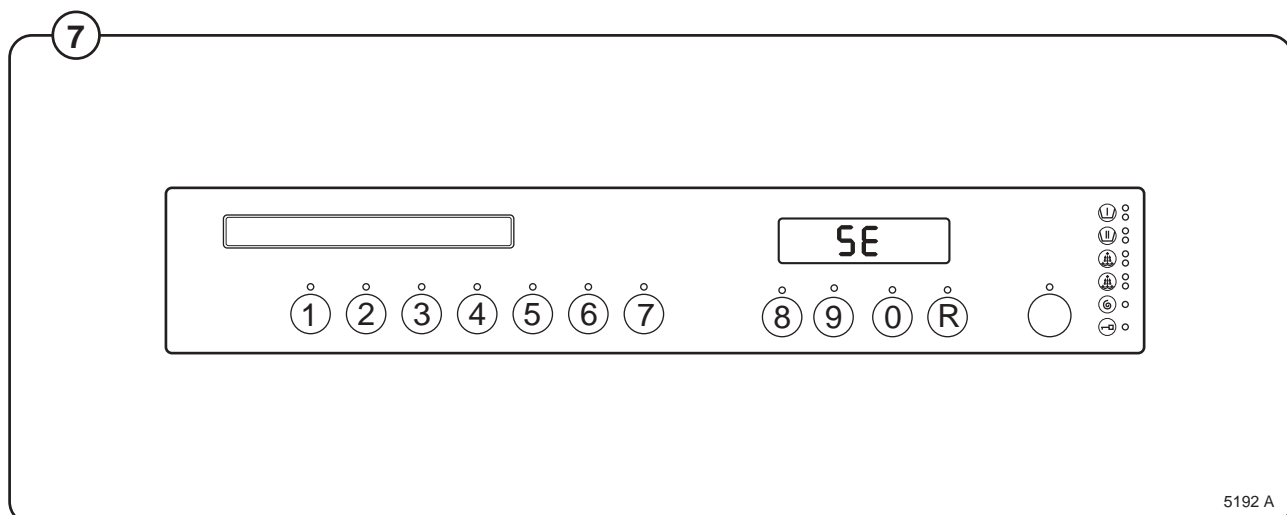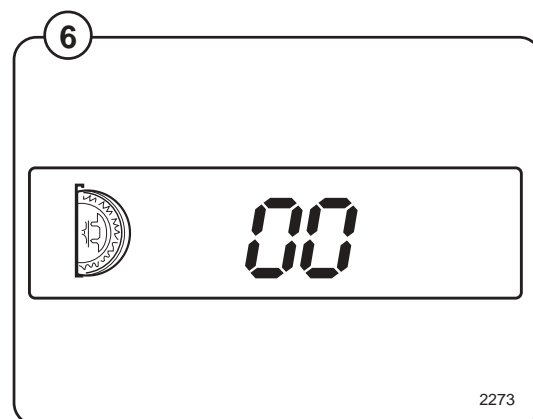
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To keep your machine in proper working order, follow the preventive maintenance recommendations provided below.

The maintenance interval should be adjusted according to machine usage. The suggested schedule assumes an 8 hour work day, and a 5 day work week..

Daily

- Check the door and door lock:
  - Open the door and try starting the machine. The machine MUST NOT START.
  - Close the door, start the machine and try opening the door. It MUST NOT BE POSSIBLE TO OPEN THE DOOR WHILE THE MACHINE IS OPERATING!
  - Check that the door does not leak.
  - Clean the door seal, removing any detergent and fluff.
- Check that the drain valve does not leak during the wash cycle.
- Clean out any detergent remaining in the detergent compartment. Rapid advance through a program and let the water rinse the compartment.
- Inspect liquid chemical tubing and connections for leaks. Repair as necessary.

Every third month (refer this service to qualified personnel)

May only be carried out by authorized personnel.

- Check that the door does not leak.
- Check the drain valve and remove any lint.
- Inspect the interior of the machine (during an actual wash cycle to ensure that no leaks are noticed) by:
  - Turning of the main power switch of the machine.
  - Remove the top cover and the protective front and rear plates.
  - Cover the detergent dispenser to prevent water from splashing inside the machine.
  - Start a wash program.
  - KEEP CLEAR OF MOVING PARTS WHILE MACHINE IS OPERATING!!

- Inspect all internal hoses, seals and gaskets for signs of leakage. Repair as necessary.

- Check that water inlet screens are clean of debris. Dirty screens result in longer fill times, which reduce productivity.

- Inspect the drive belt. Adjust the tension or replace if necessary (see section 30. Motor).

- Check that there are no signs of leakage on the floor beneath the machine. Locate and repair any leak.

- On heated machines, if the heating time is unusually long, check the heating elements (see section 40. Heating). If the water is very hard, check whether there are lime deposits on the heating elements. Decalcify the elements if necessary. Adapt the amount of deliming agent to the manufacturer's guidelines.

- Never switch on the heating elements when there is no water in the machine. This will cause the slow-blow fuse to trigger.

- Inspect the shock absorbers and coil springs. (Only EX- and H-model).

WASCOMAT "S20" MODEL*
SELECTA (2S01)
HOSPITALITY WASH PROGRAMS

(For Hotels/Motels, Restaurants, Retirement Communities, Schools and Universities, Commercial and Institutional Laundries)

1	White Sheets	1A	White Table Linen	1B	Kitchen and Houlsekeeping Rags	1AB	Stain Treatment (Long Formula)
2	White Towels	2A	White Towels (Medium Soil Short Program)	2B	Rinse and Extract	2AB	White Table Linen (Bleach and Starch
3	Kitchen White Uniforms	3A	Colored Sheets	3B	White 100% Polyester (VISA) Table Linen	3AB	Bedspreads Delicates (Warm Water)
4	Color Table Linen	4A	White Towels, Mops (Heavy Soil)	4B	Colored 100% Polyester (VISA) Table Linen	4AB	General Wash (Light Soil)
5	Bath Robes (Light Soil)	5A	Delicate Cold	5B	Chef Coats	5AB	Test Program

Supply Code:

1 = Detergent	2 = Sour	3 = Softener
4 = Bleach	5 = Starch	

FORMULA 1

WHITE SHEETS

(LIGHT SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS/BLEACH	8	HOT	LOW	SUPPLY 1 & 4
DRAIN	1			
RINSE 2	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 2

WHITE TOWELS

(MEDIUM SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	7	HOT	LOW	SUPPLY 1
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE 1	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	90 SEC.			
RINSE 2	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT 3	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 3

KITCHEN AND WHITE UNIFORMS

(HEAVY SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	12	HOT	LOW	SUPPLY 1
DRAIN	1			
FLUSH	2	HOT	HIGH	
DRAIN	1			
BLEACH	12	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE 1	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1/2			
RINSE 2	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT 3	4	COLD	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	3			
SHAKEOUT				

FORMULA 4

COLORED TABLE LINEN

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	12	HOT	LOW	SUPPLY 1
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	90 SEC.			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	4			
SHAKEOUT				

FORMULA 5

BATH ROBES

(LIGHT SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS/BLEACH	7	HOT	LOW	SUPPLY 1 & 4
(NO DRAIN)				
CHEATER/RINSE	1	HOT	HIGH	NONE
DRAIN	1			
RINSE 2	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 1A

WHITE TABLE LINEN

(MEDIUM SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	12	HOT	LOW	SUPPLY 1
DRAIN	1			
SUDS	2	HOT	HIGH	
DRAIN	1			
BLEACH	12	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	90 SEC.			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	4			
SHAKEOUT				

FORMULA 2A

WHITE TOWELS

(MEDIUM SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	7	HOT	LOW	SUPPLY 1
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	COLD	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	4			
SHAKEOUT				

FORMULA 3A

COLORED TOWELS AND SHEETS

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	7	SPLIT	LOW	SUPPLY 1
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1			
SOUR/SOFT	4	COLD	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 4A

WHITE TOWELS AND MOPS

(HEAVY SOIL)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
FLUSH	2	SPLIT	HIGH	NONE
DRAIN	1			
SUDS	8	HOT	LOW	SUPPLY 1
DRAIN	1			
RINSE	2	HOT	HIGH	NONE
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1/2			
RINSE	2	COLD	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	COLD	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 5A

DELICATES

(COLD WATER / GENTLE ACTION)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	5	COLD	LOW	SUPPLY 1
DRAIN	1			
RINSE	2	COLD	HIGH	NONE
DRAIN	1			
RINSE	2	COLD	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 1B

KITCHEN AND HOUSEKEEPING RAGS

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
FLUSH	2	SPLIT	HIGH	NONE
DRAIN	1			
SUDS	8	HOT	LOW	SUPPLY 1
DRAIN	1			
SUDS	8	HOT	LOW	SUPPLY 1
DRAIN	1			
EXTRACT	1			
BLEACH	12	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
EXTRACT	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 2B

RINSE AND EXTRACT

COTTON AND TERRY

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
EXTRACT	5			
SHAKEOUT				

FORMULA 3B

WHITE 100% POLYESTER (VISA) TABLE LINEN

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
FLUSH	2	SPLIT	HIGH	NONE
DRAIN	1			
SUDS	9	HOT	LOW	SUPPLY 1
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR	4	SPLIT	LOW	SUPPLY 2
DRAIN	40 SEC.			
EXTRACT	2			
SHAKEOUT				

FORMULA 4B

COLORED 100% POLYESTER (VISA) TABLE LINEN

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
FLUSH	2	SPLIT	HIGH	NONE
DRAIN	1			
SUDS	9	HOT	LOW	SUPPLY 1
DRAIN	1			
RINSE 1	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	COLD	HIGH	NONE
DRAIN	1			
SOUR	3	COLD	LOW	SUPPLY 2
DRAIN	40 SEC.			
EXTRACT	1			
SHAKEOUT				

FORMULA 5B

CHEF COATS

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	5	HOT	LOW	SUPPLY 1
DRAIN	1			
SUDS	8	HOT	LOW	SUPPLY 1
DRAIN	1			
RINSE 1	2	HOT	HIGH	NONE
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE 2	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1/2			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	4			
SHAKEOUT				

FORMULA 1AB

STAIN TREATMENT – (LONG FORMULA)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS/BLEACH	30	HOT	LOW	SUPPLY 1 & 4
DRAIN	1			
RINSE	2	HOT	HIGH	NONE
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	HOT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1/2			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 2AB

WHITE TABLE LINEN

(BLEACH AND STARCH)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	9	HOT	LOW	SUPPLY 1
DRAIN	1			
RINSE	2	HOT	HIGH	NONE
DRAIN	1			
BLEACH	7	HOT	LOW	SUPPLY 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1/2			
SOUR	2	SPLIT	LOW	SUPPLY 2
(NO DRAIN)				
STARCH	4	SPLIT	LOW	SUPPLY 5
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 3AB

DELICATES

(WARM WATER)

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS	5	SPLIT	LOW	SUPPLY 1
DRAIN	1/2			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1/2			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	40 SEC.			
EXTRACT	1/2			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	2			
SHAKEOUT				

FORMULA 4AB

LIGHT SOIL – GENERAL WASH FORMULA

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
SUDS/BLEACH	9	HOT	LOW	SUPPLY 1 & 4
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
RINSE	2	SPLIT	HIGH	NONE
DRAIN	1			
SOUR/SOFT	4	SPLIT	LOW	SUPPLY 2 & 3
DRAIN	40 SEC.			
EXTRACT	5			
SHAKEOUT				

FORMULA 5AB

Test Program

On all Selecta-28 machines, Program 7AB is a test program. The test program should be run whenever you start-up a machine and after performing service and troubleshooting to be sure it is operating properly. This is the test program, step-by-step:

1. Fill to low level with cold water, no drum rotation.

2. When low level is reached, rotate 90 seconds with normal action (12 seconds rotation, 3 seconds pause, then reverse direction and repeat). After 90 seconds normal action, stop rotation. No drain.

3. Continue to fill to high level with hot water with no drum rotation.

4. When high level is reached, rotate for 90 seconds with gentle action (3 seconds rotation, 12 seconds pause, then reverse direction and repeat). After 90 seconds gentle action, stop rotation.

5. Drain with gentle action.

6. Fill to high level with cold and hot water with normal action. When high level is reached, proceed to step 7 with normal action.

7. Supply signals 1, 2, 3, 4 and 5, on simultaneously for 60 seconds. Check for 220V between terminals 1, 2, 3, 4, 5 and C.

8. Drain with normal action.

9. Extract 2 minutes. On two-speed models, first go to distribution speed, and then extract 2 minutes at both low and high speeds.

10. Fill to low level with cold water with normal action. When low level is reached, rotate 30 seconds with normal action.

11. Drain. End of test program.

AH/lp   (opl117)
GB/lp   10/12/01

Emerald Wash Programs (2L31)

1 "HOT"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3	SPLIT	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	6.5	HOT	MEDIUM	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	SPLIT	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	40 SEC.			
FINAL EXTRACTION	4			

1 **A**   Gives 6 min final extraction instead of 4.

1 **B**   Quick wash. No pre wash and 2 min final extraction.

1 **A** **B**   No pre wash and 6 min final extraction.

Emerald Wash Programs (2L31)

(2) **"WARM"**

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3	SPLIT	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	6.5	SPLIT	MEDIUM	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	30 SEC.			
FINAL EXTRACTION	4			

(2) (A) Gives 6 min final extraction instead of 4.

(2) (B) Quick wash. No pre wash and 2 min final extraction.

(2) (A) (B) No pre wash and 6 min final extraction.

Emerald Wash Programs (2L31)

(3) "COLD"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3	COLD	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	6.5	COLD	MEDIUM	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	30 SEC.			
FINAL EXTRACTION	4			

(3) (A) Gives 6 min final extraction instead of 4.

(3) (B) Quick wash. No pre wash and 2 min final extraction.

(3) (A) (B) No pre wash and 6 min final extraction.

Emerald Wash Programs (2L31)

(4) "DELICATE"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
MAIN WASH	4.5	SPLIT	HIGH	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	HIGH	NONE
DRAIN	40 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	40 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	30 SEC.			
EXTRACT	1.5			

(4) (A) Gives 4 min final extraction instead of 1.5.

(4) (B) Quick wash. Gives 2 rinses instead of 3.

(4) (A) (B) 2 rinses and 4 min final extraction.

Emerald Wash Programs (2L31)

(5) "HEAVY SOIL"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRERINSE	2	SPLIT	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
PRE WASH	3	SPLIT	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	8.5	HOT	MEDIUM	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	SPLIT	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	30 SEC.			
EXTRACT	4			

(5) (A) Gives 6 min final extraction instead of 4.

(5) (B) Quick wash. No prerinse, 6 min main wash and 2 min final extraction.

(5) (A) (B) No prerinse, 6 min main wash and 6 min final extraction.

Emerald Wash Programs (2L34)
"SU 140G Models"

(1) "HOT"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3.5	SPLIT	MEDIUM	SUPPLY 1
DRAIN	60 SEC.			
MAIN WASH	6.5	HOT	MEDIUM	SUPPLY 2 OR 4
DRAIN	60 SEC.			
RINSE 1	1	SPLIT	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	60 SEC.			
FINAL EXTRACTION	4			

(1) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(1) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(1) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L34)

(2) "WARM"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3.5	SPLIT	MEDIUM	SUPPLY 1
DRAIN	60 SEC.			
MAIN WASH	6.5	SPLIT	MEDIUM	SUPPLY 2 OR 4
DRAIN	60 SEC.			
RINSE 1	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	60 SEC.			
FINAL EXTRACTION	4			

(2) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(2) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(2) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L34)

(3) "COLD"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3.5	COLD	MEDIUM	SUPPLY 1
DRAIN	60 SEC.			
MAIN WASH	6.5	COLD	MEDIUM	SUPPLY 2 OR 4
DRAIN	60 SEC.			
RINSE 1	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	60 SEC.			
FINAL EXTRACTION	4			

(3) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(3) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(3) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L34)

(4) **"QUICK WASH"**

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
MAIN WASH	6.5	SPLIT	MEDIUM	SUPPLY 2 OR 4
DRAIN	60 SEC.			
RINSE 1	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	60 SEC.			
EXTRACT	4			

(4) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(4) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(4) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L34)

(5) "HEAVY SOIL"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRERINSE	2.5	SPLIT	MEDIUM	SUPPLY 1
DRAIN	60 SEC.			
PRE WASH	3	SPLIT	MEDIUM	SUPPLY 1
DRAIN	60 SEC.			
MAIN WASH	8.5	HOT	MEDIUM	SUPPLY 2 OR 4
DRAIN	60 SEC.			
RINSE 1	1	SPLIT	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	60 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	60 SEC.			
EXTRACT	4			

(5) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(5) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(5) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L35)
Only SU620 Energy Star

●

(**1**)   **"HOT"**

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3.5	COLD	LOW	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	6.5	HOT	LOW	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	MEDIUM	SUPPLY 3
DRAIN	30 SEC.			
FINAL EXTRACTION	4			

(**1**) (**A**)   Turbo spin. Gives 6 min final extraction instead of 4.

(**1**) (**B**)   Delicate. Gives gentle action and 1.5 min final extraction.

(**1**) (**A**) (**B**)   Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L35)

(2)   "WARM"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3	COLD	LOW	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	6.5	SPLIT	LOW	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	MEDIUM	SUPPLY 3
DRAIN	30 SEC.			
FINAL EXTRACTION	4			

(2) (A)   Turbo spin. Gives 6 min final extraction instead of 4.

(2) (B)   Delicate. Gives gentle action and 1.5 min final extraction.

(2) (A) (B)   Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L35)

(3) "COLD"

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRE WASH	3	COLD	LOW	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	6.5	COLD	LOW	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	MEDIUM	SUPPLY 3
DRAIN	30 SEC.			
FINAL EXTRACTION	4			

(3) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(3) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(3) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L35)

(4) **"QUICK WASH"**

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
MAIN WASH	6.5	SPLIT	LOW	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	MEDIUM	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	MEDIUM	SUPPLY 3
DRAIN	30 SEC.			
EXTRACT	4			

(4) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(4) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(4) (A) (B) Gives gentle action and 3.5 min final extraction.

Emerald Wash Programs (2L35)

(5) **"HEAVY SOIL"**

OPERATION	TIME	TEMP	LEVEL	SUPPLIES
PRERINSE	2	SPLIT	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
PRE WASH	3	SPLIT	MEDIUM	SUPPLY 1
DRAIN	40 SEC.			
MAIN WASH	8.5	HOT	MEDIUM	SUPPLY 2 OR 4
DRAIN	40 SEC.			
RINSE 1	1	SPLIT	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 2	1	COLD	HIGH	NONE
DRAIN	30 SEC.			
EXTRACT	30 SEC.			
RINSE 3	2	COLD	HIGH	SUPPLY 3
DRAIN	30 SEC.			
EXTRACT	4			

(5) (A) Turbo spin. Gives 6 min final extraction instead of 4.

(5) (B) Delicate. Gives gentle action and 1.5 min final extraction.

(5) (A) (B) Gives gentle action and 3.5 min final extraction.