Programming and changing wash programs

Micro-20

Manual

Alliance International

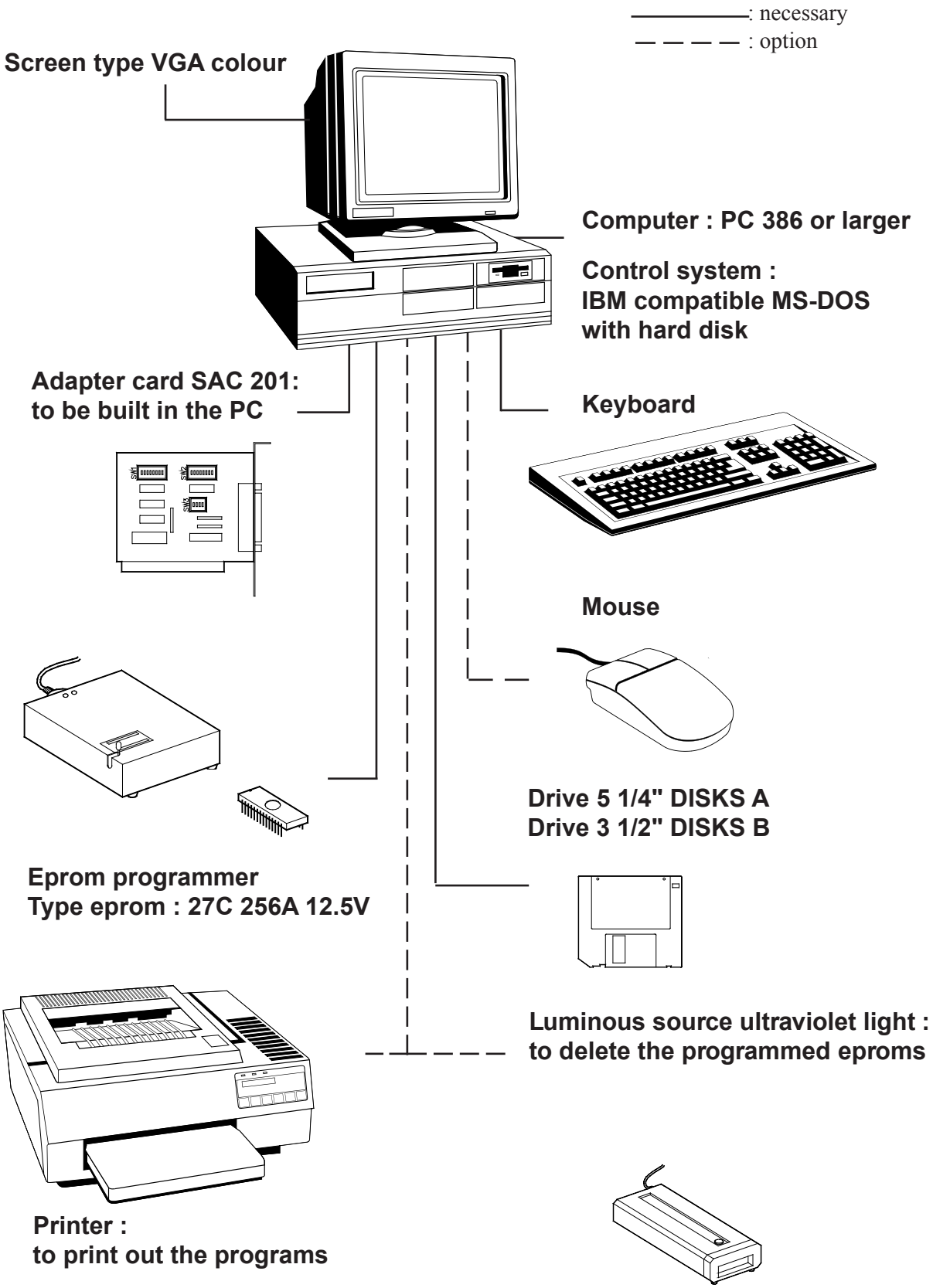
Part No. D0889R1
Code: 249/00190/00
April 97

Contents

Code: 249/00190/00

07/04/97

Hardware setting



Installation hardware 'eprom programmer'

The computer has to be disconnected during the execution of the following acts. Ignoring this instruction can lead to physical injury (electrocution) ; damage of the SAC 201 card or damage of the eprom programmer.

General

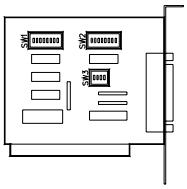
The SAC 201 adapter card as well as the 'eprom programmer' have to be installed in order to program the desired wash programs on the eproms.

Installation of the adapter card

❒ Disconnect the computer, pull the plug out of the plug switch .

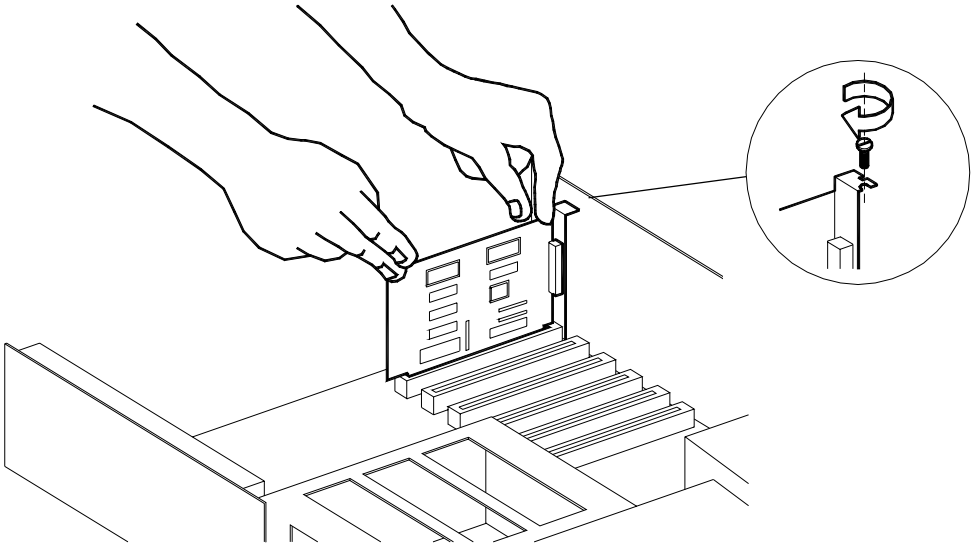
❒ Remove the cover of the computer .

❒ Check the position of the DIP-switches on the adapter card :



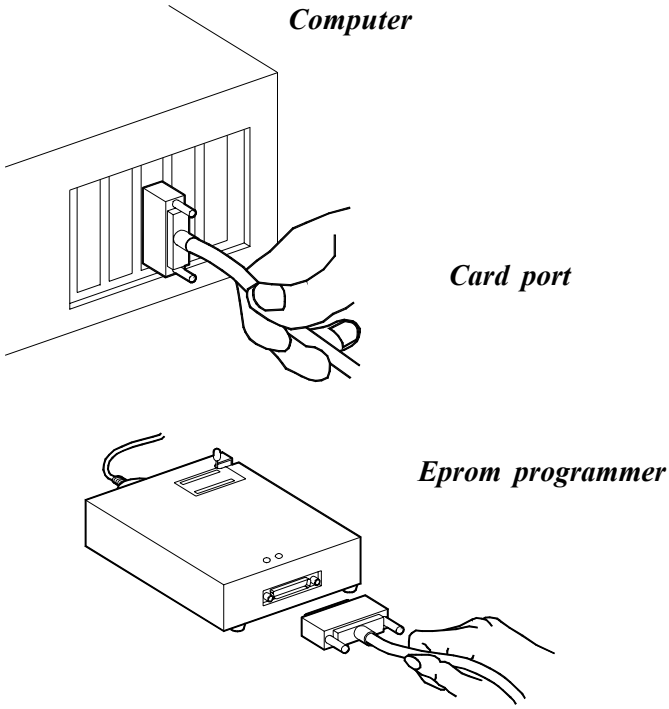
SW1: all switches '**OFF**'
SW2: switch 7 '**ON**'
other switches '**OFF**'
SW3: switch 2 '**ON**'
other switches '**OFF**'

❒ Put the SAC 201 card carefully in the computer. Use the supplied screw to lock it.



Installation of the 'eprom programmer'

- ❒ Close the cover of the computer .
- ❒ Make a connection between the port of the SAC 201 card and the 'eprom programmer' with the supplied cable.



- ❒ Switch on the computer. When the connections are correct, the led 'ON' of the eprom programmer lights. The led 'BUSY' stays extinguished.

Installation software 'eprom programmer'

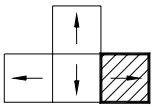
General

This software has to be installed in order to use the 'eprom programmer'.

Used symbols

␣ : space bar

↵ : return

 : cursor control keys

Installation of the software

❒ Create a directory on the hardware of the PC, named 'MICRO20':

type **MD** **MICRO20**

press ↵ to confirm

❒ Put supplied disks in the computer drive

❒ Copy the files of the supplied software to directory 'MICRO 20'

A: drive of supplied disks
C: hard disk

The nomation of the drives (A or B) depends on the available drivestations of the computer.

type **COPY** ␣ **A:*.*** ␣ **C:\MICRO20**

press ↵ to confirm

❒ Start directory 'MICRO20' :

type **CD** ␣ **MICRO20**

press ↵ to confirm

type **EPP8M1**

press ↵ the menu appears on the display

❒ Check all data on the display. When everything corresponds with below data (in defined frame), go on with step 1. If the data are different, go to step 2.

File Edit Setup Mfr Type Quit ◄—— *menubalk*

Mfr: 27/27C General EPROM
TYPE: X256A VPP: 12.5 V
SPEED: Intelligent

BUFF SIZE: 256K
BUFF START: 00000
BUFF END: 07FFF
PROM START:00000
PROM END:01FFF
CHECK SUM: 48F7

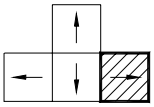
GANG SIZE: 1
I/O ADDR:2EOH
COUNTER:00000

EXTERNAL KEY:

COPY from master | VERIFY with master | BLANK check | Yes

Help Blank Read Verify Program Auto Compare Display

Step 1:

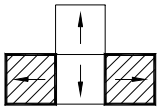
press  to go to 'Quit' of the menu bar

press  to confirm

press **Y** to leave the program

Step 2:

❒ ***When Mfr. (manufacturer) is not equal to '27 / 27 C GENERAL EPROM':***

press  to go to Mfr of the menu bar

press  the different Mfr. possibilities appear

press to go to '27 / 27 C General EPROM'

press to confirm
'Type' of the menu bar is automatically activated.

(*) press the different eprom types appear

press to select 'X256A 12.5V'

press to confirm

❒ ***When 'TYPE' is not equal to 'X256A12.5V':***

press to go to 'Type' of the menu bar

Follow the instructions mentioned above (*).

❒ ***When 'SPEED' (program speed) is not equal to 'Intelligent':***

press to go to 'Setup' of the menu bar

press the different speed possibilities appear

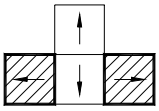
press to go to 'Speed select'

press the different speeds appear

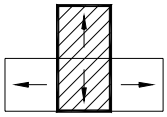
type **1** to select 'Intelligent'

press to confirm

❒ ***When 'BUFFER START' is not equal to 00000***
'BUFFER END' is not equal to 07FFF
'CHIP START' is not equal to 00000:

press  to go to 'Setup' of the menu bar

press  the different buffer possibilities appear

press  to go to 'Modify buffer'

'Buffer start address' appears on the display:

type **00000**

press  to confirm

'Buffer end address' appears on the display:

type **07FFF**

press  to confirm

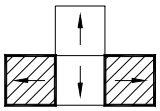
'Chip start address' appears on the display:

type **00000**

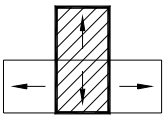
press  to confirm

If the SAC 201 card is programmed according to the instructions on pg. 2, then 'I/O ADDR'has to be equal to '2EOH'.

❒ ***When 'I/O ADDR' is not equal to '2EOH':***

press  to go to 'Setup' of the menu bar

press  the different setup possibilities appear

press  to go to 'I/O select'

press  the list of addresses appears on the display

type **E** which corresponds with '2EO'

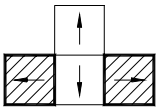
press  to confirm

❒ ***When the following message appears on the display:***

'error identification on hardware'

This means that in the computer a card has been put with the same I/O address as the SAC 201 card.
Act as follows:

press 

press  to go to 'Quit' of the menu bar

press  to confirm

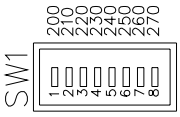
type **Y** to leave the program

❒ Disconnect the computer, pull the plug out of the plug switch.

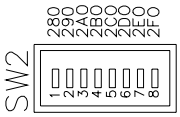
❒ Remove the cover of the computer.

❒ Remove the SAC 201 card from the computer.

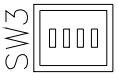
❒ Change the position of the DIP-switches:



SW1: select one switch '**ON**'
other switches '**OFF**'



SW2: switch 7 '**OFF**'
select one switch **'ON'** when **SW1** is completely **'OFF'**
others **'OFF'**



SW3: switch 2 ALWAYS '**ON**'

- ❒ Read the I/O address next to the switch you just pressed.
- ❒ Repeat the acts as of pg. 2 Chapter 1.
- ❒ Change the I/O address in the computer.

Example:

Suppose SW2: switch 8 is 'ON'
other switches are 'OFF'
Then the I/O address is equal to 2FO
In the computer you select '2FOH'

- ❒ It is possible that these acts have to be repeated several times before a not-used I/O address is found.

Installation software ' to program wash programs'

General

This software has to be installed in order to progam the wash programs.

Used symbols

␣ : space bar

↵ : return

Installation of the software

❒ Create a directory on the hard disk of the PC, named 'MICRO 20' (no longer necessary if this directory has been made earlier).

type **MD** ␣ **MICRO20**

press ↵ *to confirm*

❒ Put the supplied disks in the drive of the computer. This disk contains 4 files:

1 - **MICRO20.EXE**:the program soft for the execution of the programmation.
2 - **MICRO20.PRG**: the system soft, which guarantees the operating of the machine .
3 - **xxxxxxxx.DAT**: the standard wash programs (option).

❒ 4 - **xxxxxxxx.BIN**: the standard file to program the eprom (option).

Copy the program soft to directory MICRO20

A : drive of supplied disk with the program soft
C : hard disk

The nomation of the drives depends on the available drive-stations in the computer.

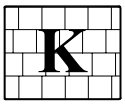
type **COPY** ␣ **B:\MICRO20*.*** ␣ **C:\MICRO20**

press ↵ to confirm

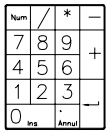
Programming the wash programs

General

Used symbols



: letters of keyboard



: numbers of keyboard

: space bar - spatie

: return

: one line downwards

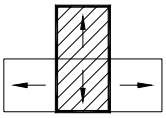
Used symbols at the programmation

Space bar

Each time the space bar is pressed, the fixed options appears on the display. Press the return button to confirm your selection.

Return button

When no certain options are available, a certain value needs to be filled in. By pressing return button, a white text block appears. Fill in the wished value through the keyboard. Press return button again to confirm the value, filled in.



Cursor control keys

On the keyboard, there are 4 cursor control keys. By pressing them, the cursor moves in horizontal or vertical direction (depends on the used key).

Escape button

Press escape button when you want to return from the CONFIG.MENU to the general program card. This button is also used to leave the program.

Remark :

❒ If your PC-system is equipped with a mouse : see pg. 36 ***" To program with a mouse"***.

To start up a program

❒ Go to directory ‘MICRO 20’:

type **CD** ␣ **MICRO20**

Press ↵ to confirm

❒ Start the program:

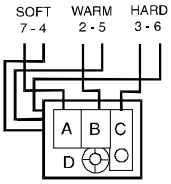
type **MICRO20**

press ↵ IPSO-logo appears on display.

press ↵ Program card 0 appears on display.

PROGRAM - 0		▶	
WATER MIX TIME			No function
OPTIONS	L H G N		LEVELSTOP HEATSTOP
WASH 1	TIME TEMPERATURE WATERINLETS WATERLEVEL WASHACTION COOLDOWN		0 min Cold I4 I7 Low level 15 cm No action No cooldown
SPIN 1	DRAIN - ACTION		Drain 1 No action
WASH 2	TIME TEMPERATURE WATERINLETS WATERLEVEL WASHACTION COOLDOWN		0 min Cold I2 I4 I7 Low level 15 cm No action No cooldown
SPIN 2	DRAIN - ACTION		Drain 1 No action
FIRST RINSE	TIME TEMPERATURE WATERINLETS WATERLEVEL WASHACTION COOLDOWN		0 min Cold I4 I7 Low level 15 cm No action No cooldown
SPIN 3	DRAIN - ACTION		Drain 1 No action
RINSE 2	TIME WATERINLETS WATERLEVEL WASHACTION		0 min I6 Low level 15 cm No action
SPIN 4	DRAIN - ACTION		Drain 1 No action
RINSE 3	TIME WATERINLETS WATERLEVEL WASHACTION		0 min I6 Low level 15 cm No action
SPIN 5	DRAIN - ACTION		Drain 1 No action
FINAL RINSE	TIME WATERINLETS WATERLEVEL WASHACTION		0 min I3 I6 Low level 15 cm No action
FINAL SPIN	NO ACTION		0 min
TUMBLE			Drain 1 Wash

File: NO_NAME



INLETS: 3
I2: W.S./M.W. 80° 20L
I3: C.H./L.R. 15° 20L
I4: COLD-SOFT 15° 20L
I5: WARM SOFT 80° 20L
I6: COLD-HARD 15° 20L
I7: CD/WASH 1 15° 20L
MACHINE: WE55
HEATING: 6 KW
LIQUID SOAP OPTION: N
FREQ. DRIVE OPTION: N
NO COIN
NO COIN

DATE:
DEGREES: Celcius
ECO: Level
DRAIN: Valve
DRAINS: Drain1
TIME CORRECTION: N

DEFAULT STARTUP: N
CYCLUS: FULL CYCLE
RETRY INTERM. SPIN O
CUSTOMER:
No name

diam: 590 depth: 315 offset: 50 (mm)

F1: save	F3: dir	F5: printprogram	F7: shell	F9: Compose	H: Help
F2: load	F4: config	F6: printall	F8: copy	F10: Decompose	ESC: exit

Configuration of the machine

Here you have to configurate the machine according to its technical characteristics (s.a. type, heating, machine with valve or pump etc.) Also the choice of options such as level control, temperature indication during program, etc.needs to be made here.

Access to configuration menu

press **F4**

In configuration menu, the cursor stands at inlets

```
▶ INLETS:        3
  I2:  W.S./M.W.      80° 20L
  I3:  C.H./L.A.      15° 20L
  I4:  COLD-SOFT      15° 20L
  I5:  WARMSOFT       80° 20L
```

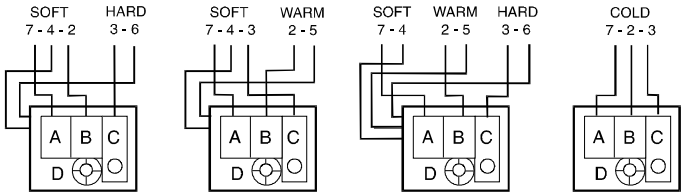
To configurate

INLET:

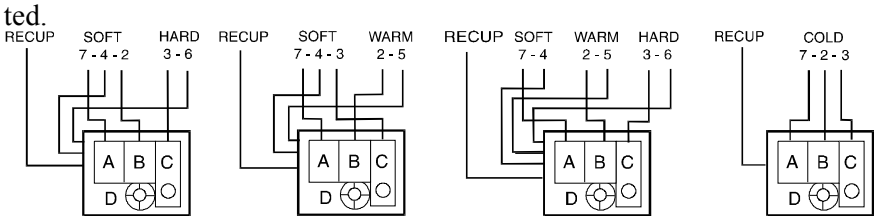
The water inlet system of the machine has to be programmed here.

press ␣

Select through the space bar one of the following water inlet configurations.



For frequency controlled machines, four extra configurations can be selected.



Press 7 times ↓

MACHINE:

press ␣

to select the type of machine (WE 55, WE 73 etc...)

The outputs in the water inlet chart (I2...I7) are automatically adjusted according to the type of machine.
If the machine was not built in these standard types, the values in this chart can be modified.

Example:

I2: W.S./M.W. 80° 20L

Press 6 times ↓

This is the configuration of water inlet valve I2.

press ␣

Output

to select the output values 20-25-50L

Temperature

Change this programmation if this value does not correspond with the real temperature of the supplied water.

press a white space block appears

type the new temperature

press to confirm

Repeat the previous actions if the programmation of the other water inlets needs to be changed.

Then move the cursor to HEATING .

press

HEATING:

press to select the type or the electrical capacity of the heating.
4,2 KW - 6 KW - 9 KW - ------- STEAM or NONE when no heating system is built in.
By programming “0”, you start at “NONE”.

press

LIQUID SOAP OPTION:

press

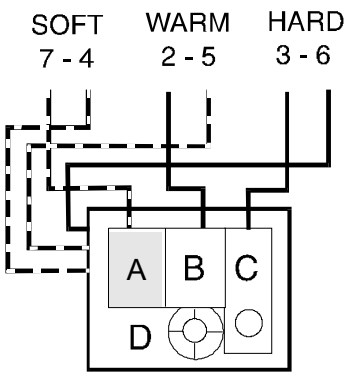
N: if the machine will not be used with an electronic soap injection.

Y: if the machine is equipped with a professional soap control system with an

electronic print board (at the back next to the electrical connectors).

INLETS: if the electronic soap injection will be connected directly to the water inlets.

Here you have to select which one of the inlets I7, I2 and I3 will be used for that purpose.



press **A** *and - or* **B** *and - or* **C**

Selection :
The selected water inlets will ***light up yellow*** in the soap dispenser.

press ↓

FREQ. DRIVE OPTION:

Here has to be programmed if the machine is equipped with a frequency controlled motor.

press ↵

to select :
Y(yes) - **N**(no)

press ↓

NO COIN:

Here has to be programmed whether the machine will start through a start button or will be coin-operated.

press ↵

to select :

➡ ***NO COIN***:
NO COIN:
when the machine ***is not*** coin-operated (coin meter token, coin meter or central operating panel).

➡ ***TOKEN 1***:
TOKEN 2:
if the machine is equipped with a coin meter token. See remarks.

➡ ***COIN 1***:
COIN 2:
if the machine is equipped with a coin meter. See remarks.

➡ ***COIN 1 START BUTTON:***
COIN 2 REMOTE START:
if the machine will be coin-operated with a central operating panel.

➡ ***COIN 1 START BUTTON:***
COIN 2 REMOTE START PAY:
idem as per the previous option but here ***"PAY"*** will appear when the machine is available.

Remarks

❒ When ***NO COIN..*** was selected:

press ↓

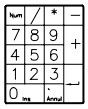
to proceed to ***DATE***: (see further).

❒ When ***TOKEN 1...*** or ***COIN1...*** was selected:

press ↵

a white text block appears

type



the coin/coin token value in the white text block.

For machines equipped with a double coin meter token or coin meter, coin 1 (or token 1) ***is the left*** coin insertion and coin 2 (or token 2) ***is the right*** coin insertion.

press ↓

to confirm

press ↵

repeat the previous actions for TOKEN 2 or COIN 2.

press ↓

SAFETY_STOP_ENABLE:

You can stop the cycle by means of the middle push button.

press ⎵

to select :
Y(yes) - **N**(no)

press ↓

F5 ENABLE:

Select here whether it has to be possible to use F5 (speed) and F7 (reading out speed) in the program.

press ⎵

to select :
Y(yes) - **N**(no)

press ↓

DECIMAL:

Through this, you can work with decimal numbers

press ⎵

to select :

000. - 00.0 - 0.00

Voorbeeld:

coin insertion 1 = 0.25 $
coin insertion 2 = 1$

In CONFIG.MENU
you have to fill in :
COIN 1: 25
COIN 2: 100
DECIMAL: 0.00

press ↓

COIN-COUNT:

For machines with coin operation, you can program whether if the number of coin insertions and labour hours have to be counted and saved.

press ⎵

to select :
Y(yes) - **N**(no)

press ↓

press ↓

DATE:

When programming new programs from the installation menu, the date is automatically given.
When programming with another program as base, this can be adapted.

press ↵

the date is adapted

DEGREES:

This is the degree system

press to select :

Celcius: degree Celsius / also visible on display
Fahrenheit: degree Fahrenheit / also visible on display
C no display: degree Celsius / not visible on display
F no display: degree Fahrenheit / not visible on display
C selected: ***the programmed temperature*** (in bath 1 to 3) appears and not ***the actually measured temperature.*** This in degree Celsius. During bath 4 and 5, Cool down and spin, the actual temperature is mentioned again.
F selected: Same as above but in degree Fahrenheit.

press

ECO:

Through this you can define the ***ECO-button.***

press to select :

- ***Level:***
  By pressing ECO-button, all wash baths and rinses are executed with a lower water level of approximately 20 %.

- ***No wash 1:***
  By pressing the ECO-button (before you start the program) the pre wash will be skipped.

- ***Level/default:***
  The ***Eco-level***-function will be activated ***automatically*** at the start and the ***led will light up***. When the ECO-button is pressed, the function will appear and the led will extinguish.
  No wash 1 / default :
  The ***Eco-no wash 1***-function will be activated ***automatically*** at the start and the ***led will light up***. When the ECO-button is pressed, the function will appear and the led will extinguish.

- ***Level /default/led:***
  The ***Eco-level***-function will be activated ***automatically*** at the start but ***the led will not light up***. When the ECO-button is pressed, the function will appear and the led will light up.

- ***No wash 1/default/led:***
  The ***Eco - no wash 1*** - function will be activated ***automatically*** but ***the led will not light up***. When the ECO-button is pressed, the function will appear and the led will light up.

Remark:

❒ The ***Eco-level*** and ***Eco-no wash 1-function*** can not ***be selected for coin-operated machines*** (see COIN or TOKEN). In these cases ***"No function"*** appears.

press ↓

DRAIN:

Here you need to program the water drain system of the machine.

press ␣

to select :

Drain: the machine is equipped with a drain valve
Pump: the machine is equipped with a pump

press ↓

DRAINS:

Insert the number of outlets.

press ␣

to select :

Drain 1: the machine is equipped with one outlet
Drain 1 + 2: the machine is equipped with two outlets

press ↓

TIME CORRECTION:

Here you can adjust the program time taking into account the filling and heatup times of the previous cycle into account.

press

to select :
Y(yes) - ***N***(no)

press ↓

DEFAULT STARTUP:

Here you can a program program number, which will be automatically selected as soon as a program is finished This allows to automatically preselect a cold program as security.

press ↵

a white text block appears

type Num / * − 7 8 9 + 4 5 6 1 2 3 ␣ 0 Ins . Annul

a program number

press ↵

to confirm

CYCLUS:

press ↓

CYCLUS:

press

The operation of the cycle contact can be programmed.
to select :

FULL CYCLE:

➡ The cycle contact will be shut ***during the complete wash cycle***.

START PULSE:

➡ The cycle contact will be shut for ***1 second at the start of the cycle.***

END PULSE:

➡ The cycle contact will be shut for ***1 second at the end of the cycle.***

Remark

❒ If END PULSE is used for example to activate a lamp or buzzer at the end of the cycle, this pulse can be extended up to maximum ***240 seconds.***

press ↵ a white text block appears

type the required time

press ↵ to confirm

press ↓

RETRY INTERM. SPIN:

For HF or HW machines, the spinning is interrupted in case the unbalance is too big. Afterwards the linen will be redistributed and spinning will start again. Here you can program how many times ***intermediary spin*** may be started before this spin cycle is left over.

press ↵ a white text block appears.

type a value

press ↵ to confirm.

Remark

RETRY INTERM. SPIN: is only mentioned for **HF** and **HW** machines.

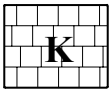
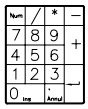
press 

CUSTOMER:

The name of the customer can be programmed.

press 

a white text block appears

type  

the name of the customer

press 

to confirm

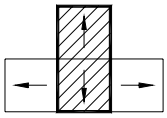
press 

to return to main menu

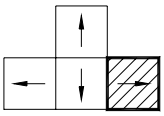
Programming the wash programs

Here you have to program the data in the program cards, which form a wash program. A wash program can consist of 2 wash baths and 4 rinses. Maximum 99 programs can be programmed.

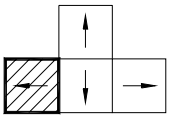
Use the cursor control keys



to move in vertical direction in the program of a program card



to go to the next program card

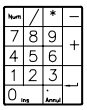


to return to the previous program card

Fill in the name of the program :

Move the cursor to the top.

press  a white text block appears

type   the name of the program

press  to confirm

press 

Fill in the cours of the wash program :

A. Prewash / main wash / first rinse

To wash the linen

PROGRAM - 0		▶	
WATER MIX TIME			No function
OPTIONS	L H G N		LEVELSTOP HEATSTOP
WASH 1	TIME		0 min
	TEMPERATURE		Cold
	WATERINLETS		I4 I7
	WATERLEVEL		Low level 15 cm
	WASHACTION		No action
	COOLDOWN		No cooldown
SPIN 1	DRAIN - ACTION		Drain 1 No action
WASH 2	TIME		0 min
	TEMPERATURE		Cold
	WATERINLETS		I2 I4 I7
	WATERLEVEL		Low level 15 cm
	WASHACTION		No action
	COOLDOWN		No cooldown
SPIN 2	DRAIN - ACTION		Drain 1 No action
FIRST RINSE	TIME		0 min
	TEMPERATURE		Cold
	WATERINLETS		I4 I7
	WATERLEVEL		Low level 15 cm
	WASHACTION		No action
	COOLDOWN		No cooldown
SPIN 3	DRAIN - ACTION		Drain 1 No action

WATER MIX TIME:

The □20 is equipped with a controlled water mix system through which the bath temperature is approached as much as possible. As a result, in most cases, no extra heating (or only a minimum) is necessary.
The information to make this mix can be programmed here.

If you do not want to use this mix system : proceed by means of the cursor control keys to ***"OPTIONS"***, if mix is wished :

press ↵

T1 appears and behind it a white text block.
This is the ***filling time***. During this time the ***programmed*** water inlets will be opened.

type Num / * − 7 8 9 + 4 5 6 1 2 3 ↵ 0 Ins . Annul

the number of seconds of this action.

press ↵

to confirm.
T2 appears and behind it a white text block.
Gedurende This is the ***mix time***. During this time, no water is added.
Through the movement of the drum, the water is well mixed.
Here, "0" can as well be filled in.

type Num / * − 7 8 9 + 4 5 6 1 2 3 ↵ 0 Ins . Annul

the number of seconds of this action

press ↵

to confirm.
T3 appears and behind it a white text block.
This is the ***correction time***. During this time, after comparison with the required temperature, cold or warm water will be added.

type Num / * − 7 8 9 + 4 5 6 1 2 3 ↵ 0 Ins . Annul

the number of seconds of this action.

press ↵

to confirm.

Example:

T1: 5 T2 : 3 T3: 10

First during 5 seconds, water will be taken through the programmed inlets.

Then during 3 seconds, no water will be added.

If the temperature is still lower than the programmed temperature, warm water will be added during 10 seconds.

If the temperature would be higher already, cold water will be added during 10 seconds.

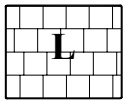
Afterwards, again 3 seconds of mix and then again ten seconds of warm or cold water will be added etc...

Should "0" be filled in for T2, then after filling time T1, cold or warm water will be added if necessary continuously without stopping.

press ↓

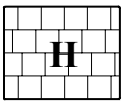
OPTIONS.....:

Certain parameters (level stop, heat stop, gentle action, no heat) can be selected here.

type 

LEVEL STOP:

Here the program time can be stopped or not when the machine is being filled with water.

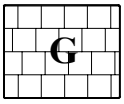
type 

HEAT STOP:

Here the program time can be stopped or not when the wash bath is being warmed up.

Remark

When at ***HEATING "NONE"*** (no heating) was selected, it is not possible to program HEAT STOP.

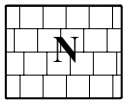
type 

GENTLE HEAT:

This is the change of action and stop time during the ***"HEATSTOP"***.

Remark

These times will not be changed if the ***action time*** has been programmed ***shorter than the stop time*** (see further).

type 

NO-HEAT:

Through this, a program can operate completely ***without heating***. As a result,it is obvious that **"HEATSTOP"** and **"GENTLEHEAT"** are no longer possible here.

press 

TIME:

The duration of the washing (without taking into account filling and heat-up times)

press 

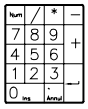
to select :

0.....15 min.

If a value of ***more than 15 min***. is wished (max. 99) :

press

a white text block appears

press 

the number of minutes

type 

to confirm

When "0" is filled in, the cursor will proceed automatically to the next program part.

press ↓

TEMPERATURE:

the temperature of the bath

press ␣

to select :

Cold - 30 - 40 - 60 - 90

If the required temperature is not part of the fixed options :

press ↵

a white text block appears

type 7 8 9 4 5 6 1 2 3 0 . +

the required temperature (min. 25°C, otherwise : Cold)

press ↵

to confirm

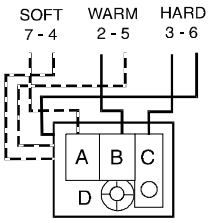
press ↓

WATER INLETS:

Here has to be programmed which water inlets have to be activated for this part.

A preferential programmation is ***automatically*** made in function of the water inlet configuration, the program part and the temperature at "TEMPERATURE".

This programmation is also visible in the water inlet configuration by means of white bar lines.



Remarks :

Change the preferential programmation

❒ If another than this preferential programmation is required, it can be changed.

type R 7 8 9 4 5 6 1 2 3 0 . +

the number of water inlet, which has to be activated or not anymore.

Example :

press **2** **R**

to select **" I2 "** and **" R "** (water recovery)

2

to remove **"I2"**

Liquid soap injection

❒ If "***Y***" was chosen in configuration at ***"LIQUID SOAP OPTION"***.

press **S** to select one of the soap inlets S1 to S6.

press a white text block appears.

type the number of seconds that soap has to be injected.

press to confirm

Time is programmable for ***900*** seconds maximum, but is limited by the value entered at ***"TIME"***.
This can be programmed from ***1 to 30*** per second, from ***31 to 180*** per 2 seconds, from ***180 to 900*** per 5 seconds.

The soap outlets ***S1*** to ***S5*** are not activated during the mix (T2) or when the water level is reached. Soap outlet ***S6*** remains active in these circumstances. Even when no water inlet was selected, ***S6*** can be selected. This outlet is rather used as control for a impermeabilisation system. No soap is added during mix or when the water level is reached.

❒ If "***INLETS***" was programmed in configuration for "***LIQUID SOAP OPTION***".

press **S** to select one of the soap inlets ***I2, I3*** or ***I7*** which were configurated.

press a white text block appears

type the number of seconds that soap has to be injected.

press to confirm

Time is programmable for ***900*** seconds maximum, but is limited through the value entered at "***TIME***".
This can be programmed from 1 to 30 second, from 31 to 180 per 2 seconds, from 180 to 900 per 5 seconds.

Remark :

❒Program a second soap inlet.

press to return to "TEMPERATURE".
Then repeat the previous actions to program a soap inlet

press 

press 

WATER LEVEL:

Here the water level has to be programmed.

to select :

No level: no water inlet
Low level: low level
High level: high level
Overflow: unlimited level

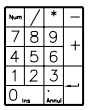
Remark :

❒ ***Overflow*** cannot be selected if "***Pump***" was entered at "***DRAIN***" in configuration menu.

❒ If the wished water level is not available in the fixed options, another value can be programmed.

press 

a white text block appears

type 

the wished water level

For machines without heating or when "Cold" was selected at TEMPERATURE, a minimum value of ***offsett + 4cm*** can be programmed. In the other cases a minimum value of ***offset + 6cm*** can be programmed. This offset value is mentioned at the bottom on the right (per machine in mm). A value of 30cm ***maximum*** can be programmed.

press 

to confirm

press ↓

WASH ACTION:

The movement of the drum to wash the linen.

press ␣ to select :

no action: no wash action
gentle: reduced wash action (3 sec action - 12 sec stop)
wash: normal wash action (12 sec. action - 3 sec stop)

Remarks

❒ When the required wash pulse is not available in the fixed options :

press ↵ ***action time*** appears :

type the required action time (1 - 99 sec.)

press ↵ ***stop time*** appears :

type the required stoptime (1 - 99 sec.)

type ↵ to confirm

❒ For machines with frequency controlled motor, ***the wash speed*** can be changed also (default 40 rpm).

press **S** a white text block appears

type the wash speed of the drum (10 - 50 rpm)

press ↵ to confirm

press ↓

COOLDOWN:

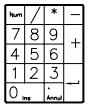
The temperature controlled cooldown of the bath

press  to select

no cooldown-30-40-60-90

if the required cooldown temperature is not part of the fixed options :

press  a white text block appears

type  the required cooldown temperature (lower than the temperature of the bath)

press  to confirm

press 

SPIN 1:

Here can be programmed what has to happen after the bath

press  to select :

- **drain 1 no action**: the water drains away from the tub, the linen is not spun and there is no wash action during one minute.
- **drain 1 gentle**: the water drains away and there is a reduced wash action (3/12) without spin during one minute.
- **drain 1 wash**: the water drains away and there is a normal wash action (12/3) without spin during one minute.
- **drain 1 low spin**: in a cycle of 1 min. 30 sec. the water drains away (about 30 sec.) and the linen is spun (about one minute) on low spin.
- **drain 1 gentle spin**: in a cycle of 1 min. 30 sec. the water drains away (about 30 sec.) the linen is spun on low spin (about 10 sec.) and the linen is tumbled (about 50 sec.). This is especially for delicate linen (as curtains)
- **No drain no action**: the water stays in the tub, the linen is not spun and there is no wash action during one minute.
- **No drain gentle**: the water stays in the tub, there is a normal wash action (12/3) without spin during one minute.
- **No drain wash**: the water stays in the tub, there is a normal wash action (12/3) without spin during one minute.
- **drain 1 distribut**.: (not for WE machines) the water drains away from the tub and there is a distribution action without spin for one minute.
- **Skip**: this step is skipped, you can proceed immediately.

Remarks :

❒ For machines with frequency controlled motor at ***wash or gentle***, the wash speed of this part is taken over. If "***drain 1 low spin***" is chosen, the rpm can be programmed between 250 and 500 rpm (default 500 rpm).

press **S** a white text block appears

type the spin speed of the drum (between 250 and 500 rpm)

press to confirm

press

❒ If a machine is equipped with ***2 water outlets***, the different actions can be done with **drain 1** or with **drain 2.**

Repeat these actions (as of pg. 21) for WASH 2 (main wash) and FIRST RINSE (first rinse).

B. RINSE 2 / RINSE 3 / RINSE 4:

To rinse the linen
Idem as A. , only the programmation of the temperature and the cool-down are missing.

RINSE 2	TIME	0 min	
	WATERINLETS	I6	
	WATERLEVEL	Low level 15 cm	
	WASHACTION	No action	
SPIN 4	DRAIN - ACTION	Drain 1 No action	
RINSE 3	TIME	0 min	
	WATERINLETS	I6	
	WATERLEVEL	Low level 15 cm	
	WASHACTION	No action	
SPIN 5	DRAIN - ACTION	Drain 1 No action	
FINAL RINSE	TIME	0 min	
	WATERINLETS	I3 I6	
	WATERLEVEL	Low level 15 cm	
	WASHACTION	No action	

this means that the wash bath cannot be warmed up or cooled down.

C. FINAL SPIN:

Final spin

FINAL SPIN	NO ACTION		0 min

Two variables should be programmed, namely the nature of the action that the drum has to execute and the duration of this action :

press 

to select :

no action: no wash action during the time filled in.

gentle: reduced wash action (3/12) during the time filled in.

wash: normal wash action (12/3) during the time filled in.

low: low spin during the time filled in.

high: high spin during the time filled in.

High spin can only be programmed for ***high speed machines***.

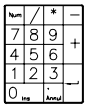
gentle spin: short spin during the time filled in.

every minute of 'gentle spin' consists of : 10 sec. spin + 50 sec. tumbling

press 

a white text block appears.

type

t h e t i m e 

duration of low spin (max. 9 min.)

press 

to confirm

press 

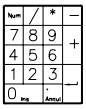
Remarks :

❒ If the machine is equipped with ***2 water outlets***, you can make a choice in the next step (see "***TUMBLE***").

❒ For high speed machines, time of high spin can be programmed in the same way.
Low spin, however, becomes ***automatically one minute minimum*** or ***two minutes maximum.***

press 

a white text block appears.

type 

time of high spin (max. 9 min.)

press 

to confirm

press 

❒ For machines with frequency controlled motor at ***wash or gentle***, the wash speed of this part is taken over. If "***low spin - high spin***" is chosen, this rpm for "***low spin***" can be programmed between 250 and 500 rpm (default : 500).

press **S** a white text block appears

type the low spin speed (from 250 to 500 rpm)

press to confirm

press

❒ For high speed machines at "***high spin***", the speed of ***high spin*** can be programmed in the same way (from 500 to 1000 rpm) (default : 1000).

⚠ This rpm can, however, ***can never amount more than twice the*** value programmed at low spin "low spin".

press **S** a white text block appears

type the high spin speed (from 500 to 1000 rpm)

press to confirm

press

D. TUMBLE:

After spin, the linen is tumbled for one minute.

TUMBLE		Drain 1 Wash

press 

to select :

drain 1 wash: tumble with wash action (9/6).
drain 1 gentle: tumble with reduced wash action (6/9).

Remarks :

❒ If the machine is equipped with ***2 water outlets***, you can choose between "***drain 2 wash***" and "***drain 2 gentle***".

❒ The selection of "***drain 1***" or "***drain 2***" at "***TUMBLE***" determines also the water outlet at final spin ("***FINAL SPIN***").

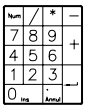
❒ For machines with frequency controlled motor, ***the highest programmed wash speed which appears in the program*** is automatically given.

Automatical transition to another program.

Should the existing structure of the program card be too limited, several program cards can be coupled to each other. This way, special wash programs (f.ex. programs with more than 3 warm baths) can be made.

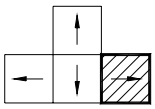
The selection therefore has to be done at "***TUMBLE***".

press  a white text block appears

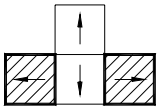
type  the program number that has to be started.

press  to confirm

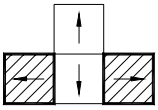
"***GOTO***" with the program number appear

press  This ends the programmation of the program card.

❒If a new program to ressembles strongly to one of the existing programs, it can be useful to use ***copy-commando.***

press  to go to the program card to be programmed

press **F8** for the copy-commando

press  to go to the new program card

press  to confirm

Introduce the necessary changes to the new program card with the help of previously mentioned actions.

Saving and changing programmed data

Saving programmed data

press F1 — a new display appears with in the middle the "***PATH***" of the directory (f.ex. C:\MICRO-20)

❒ No "DAT-files" exist in the directory yet

"***no files found!***" appears in the upper left corner

press Esc — a white text block appears in the left bottom corner

type K — the name under which the data are saved.

This name can consist of maximum ***8 characters*** : numbers and/or letters.

press ↵ — to confirm

The data are saved in a file under the name which appears on the right upper corner of the display.
Extension.**DAT** is automatically added to the name
f.ex. **xxxxxxxx.DAT**

❒ "DAT-files" are already existing in the directory

A list with the existing files is given in the left upper corner.

❒ If a new "DAT-file" with new data should be made, repeat the above mentioned actions.

❒ If an existing name has to be overwritten with new data.

press ↑ ↓ ← → — to select the name

press ↵ — to confirm
A confirmation to overwrite is asked on the display.

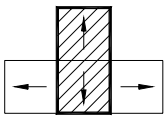
press Y — to confirm
The selected file will be overwritten by the data just programmed.

Composing a BIN-file

This is necessary to be able to put the programmed data in an eprom. A BIN-file is a composition of 'systemsoft' (PRG-file) and DAT-file with the programmed data.

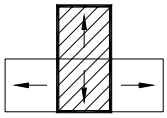
press 

'systemsoft' appears on the display (□20_204.PRG)

press 
to select the systemsoft

press 
to confirm

Several DAT-files appear on the display.

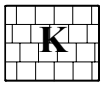
press 
to select DAT-file

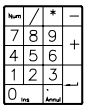
press 
to confirm the DAT-file selection.
The name of the DAT-file is mentioned as BIN-file name in the left bottom corner.

❒To confirm a name

press 
the extension.BIN is automatically added to this name.

❒To create another name for the BIN-file :

type 


another name existing of 8 characters maximum.

press 
Extension.BIN is automatically added to this name and this file is saved.

Remark

To cause as less confusion as possible, it is recommended to give the BIN-file the same name as the file (DAT-file).

F.ex.: □20_200.PRG + 01H000.DAT = 01H000.BIN

Loading data

press F2 a list of the already saved files appears on the display

press to go to the required file

press to load the selected file
Program card 0 of the file appears on the display.

Changing directory

Files can be saved to or called from higher or lower located directories.
If the “PATH-display” does not give the wished directory,

press Through this, the list of subdirectories appears. If no subdirectories are available, a point with below two points will appear.

press Select a subdirectory or the two points to go to the parent (higher) directory.

press to confirm the directory selection.

Printing out data (printprogram-print all)

press F5 to print out the program card on the display (1 program card).

press F6 to print out all programmed program cards of the selected file.

Decomposing 'systemsoft' from 'datasoft'

Through this, you can again obtain the DAT-file from a BIN-file.

press F10 all BIN-files appear on the display

press ← ↑ ↓ → to select the required BIN-file

press ↵ to confirm the BIN-file selection
The name of the BIN-file appears as DAT-file name in the left bottom corner.

To confirm the name

press ↵ extension.DAT is automatically added to this name

To create another name for the DAT-file :

type K another name existing of 8 characters maximum.

press ↵ extension.BIN is automatically added to this name and this file is saved.

Example :

Suppose **01H000.DAT** does no longer exist.
Select **01H000.BIN.**
Typ **01H000** as missing DAT-file.
01H000.DAT is automatically composed and saved.

List with files under directory 'MICRO-20' (dir)

press F3 the first page with files appears on the display

press ↵ for the following page with files (as long as there are other pages)

press ↵ to return to program card

Converting to DOS (control system)

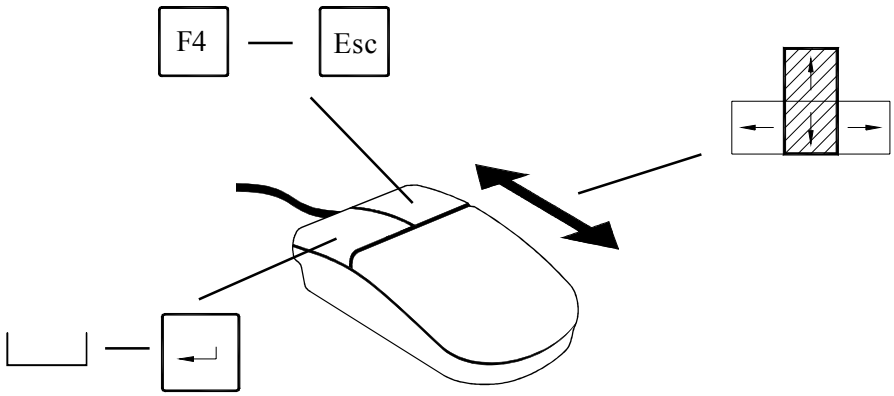
press	F7	to exit the program 'C:\MICRO20>' appears on the display The computer is ready for other DOS-commandos
type	**EXIT**	to return to program card

Deleting BIN and DAT-files

press	F7	'C:\MICRO20>' appears on the display
type	**DEL**	
or	**DEL** ␣	
press	↵	the file is deleted from the directory.

Programming with mouse

If your PC-system is equipped with mouse, you can execute most of the actions with mouse instead of the keyboard. This is much easier to work with.

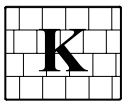


- By moving the mous in ***forwards or backwards***, the cursor goes up and down.
- The functions of the spare bar are executed with the ***left button***. When the help display appears together with the directory structure, this button then replaces the return button.
- With the ***right button***, you can go to the configuration menu and return.

Programming an eprom

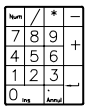
General

Used symbols

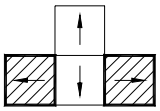


: the letters of the keyboard

: return



: the numbers of the keyboard



: control cursor keys

: space bar

To start a program :

❒ go to directory 'EPROMP':

type **CD**  **EPROMP**

press  to confirm

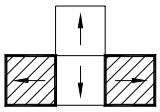
❒ Start the program

type **EPP8M1**

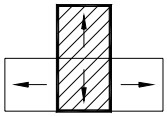
press  the menu appears on the display

Programmation of an eprom

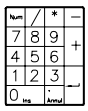
❒ Load the file with the required programs :

press  to go to 'File' of the menu bar

press  several file possibilities appear

press  to go to ‘Load file to buffer’

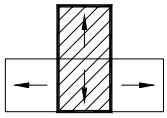
press  to confirm

type   the file name of the required programs :

C: \ MICRO20 \ xxxxxxxx.BIN

Remark :

The file can also be selected as follows : press the tab-button

press  to select a file.
If necessary, a file can be searched in a higher or lower located directory.

press  to confirm the selection

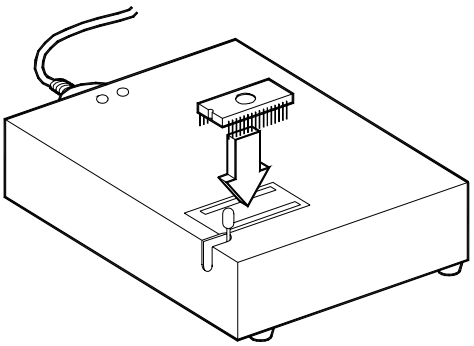
press  'Load address' appears on the display

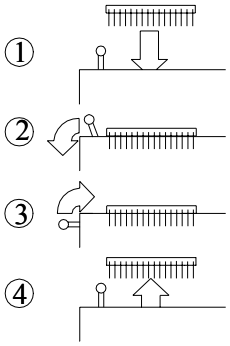
type **0000**

press  to confirm
The information is now loaded in the buffer. After loading, a beep sound follows and there is mentioned '***Press any key to continue.....***'

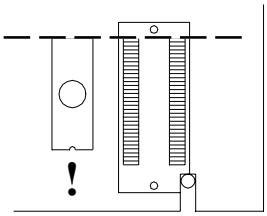
press **Esc** to return to the main menu

❒ Put the eprom in the 'eprom programmer'





Remark :

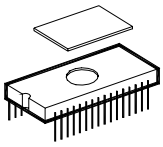


- Pay attention to the notch (!)
- right placing (—)

❒ To program the eprom

press	**A**	to select ‘programming automatically’
press	**Y**	to confirm
		'when there are still other eproms to be programmed : place a new eprom in the ‘eprom programmer’
press	**Y**	to confirm
press	**Esc**	to go to menu bar
press	↑ ← → ↓	to go to ‘Quit’ of menu bar
press	↵	to confirm
press	**Y**	to exit the program

Remark :



Protect the burned in programs against UV-rays by putting a sticker on the sensitive place.

01H000
16/07/93

It is recommended to mention the name of the BIN-file and the date on the sticker. This can be useful for the after sales service.

Reading and adapting old eproms

General

This is useful when you want to load or change programs of an existing machine (with eprom), of which information is no longer available.

❒ Remove the eprom from the programmer

Then follow the instructions on pg.36, 37 (start program, place an eprom in an ‘eprom programmer’).

❒ Read in an eprom

press	**R**	to read in an eprom
press	**Y**	to confirm
press	**Esc**	the BIN-file is now saved in the buffer.

Writing the BIN-file to disk

press to go to ‘File’ of the menu bar

press to confirm

press to go to ‘Save buffer to file’

press to confirm

type the file name, under which the eprom has to be written to disk.

C: \ MICRO20 \ xxxxxxxx.BIN

Remark :

The letters ‘x’ represent the file name, this contains maximum 8 characters : numbers and/or letters.

press to confirm

type **0000** as 'Start address'

druk to confirm

type **07FFF** as 'End address'

press to confirm

press **Esc** now you can adapt the BIN-file, written to disk (see pg. 35 : decomposing systemsoft from datasoft).

To delete eproms

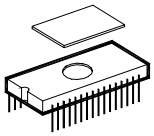
General

An eprom first has to be deleted before you can program it again.

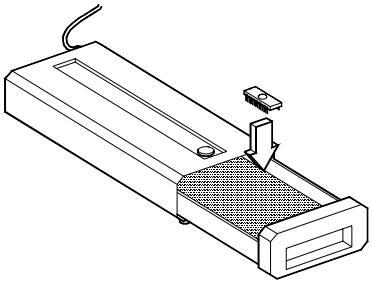
To delete

❒ Take an eprom

Remove the sticker from the round opening.

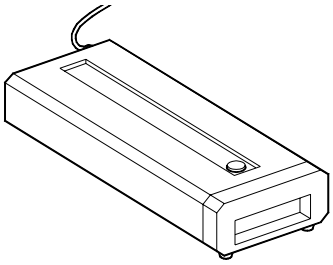


❒ Put the eprom with the opening upwards in the box with UV-light.



❒ Close the box and light the luminous source.

Repeat this action several times (2-3) to be sure that the eproms are deleted.



Remark :

An eprom which is not completely deleted, will give the following notice at the programmation : 'Blank error at xxxxx' where 'xxxxx' is the part of the eprom that has not been deleted yet. Howéver, when you have deleted the eprom 3 times, and 'Blank error' still appears on the display, this means that the eprom is out of order.

The manufacturer keeps the right at any time to change the contents of this manual, without prior notice.

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