G2x6 MANUAL

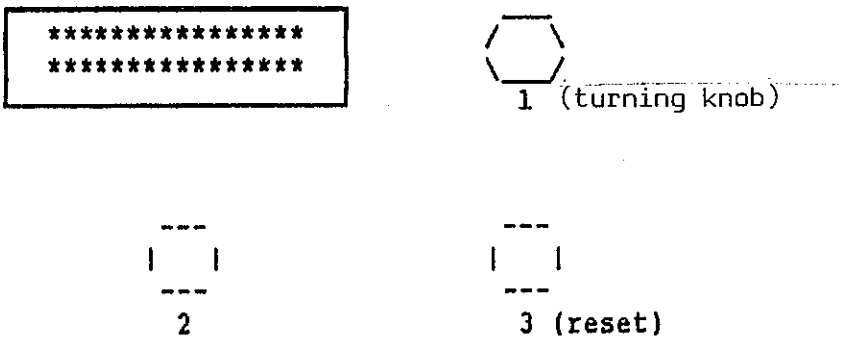
CONTENTS

G2x8 MANUAL

1 G2x8 COMPUTER

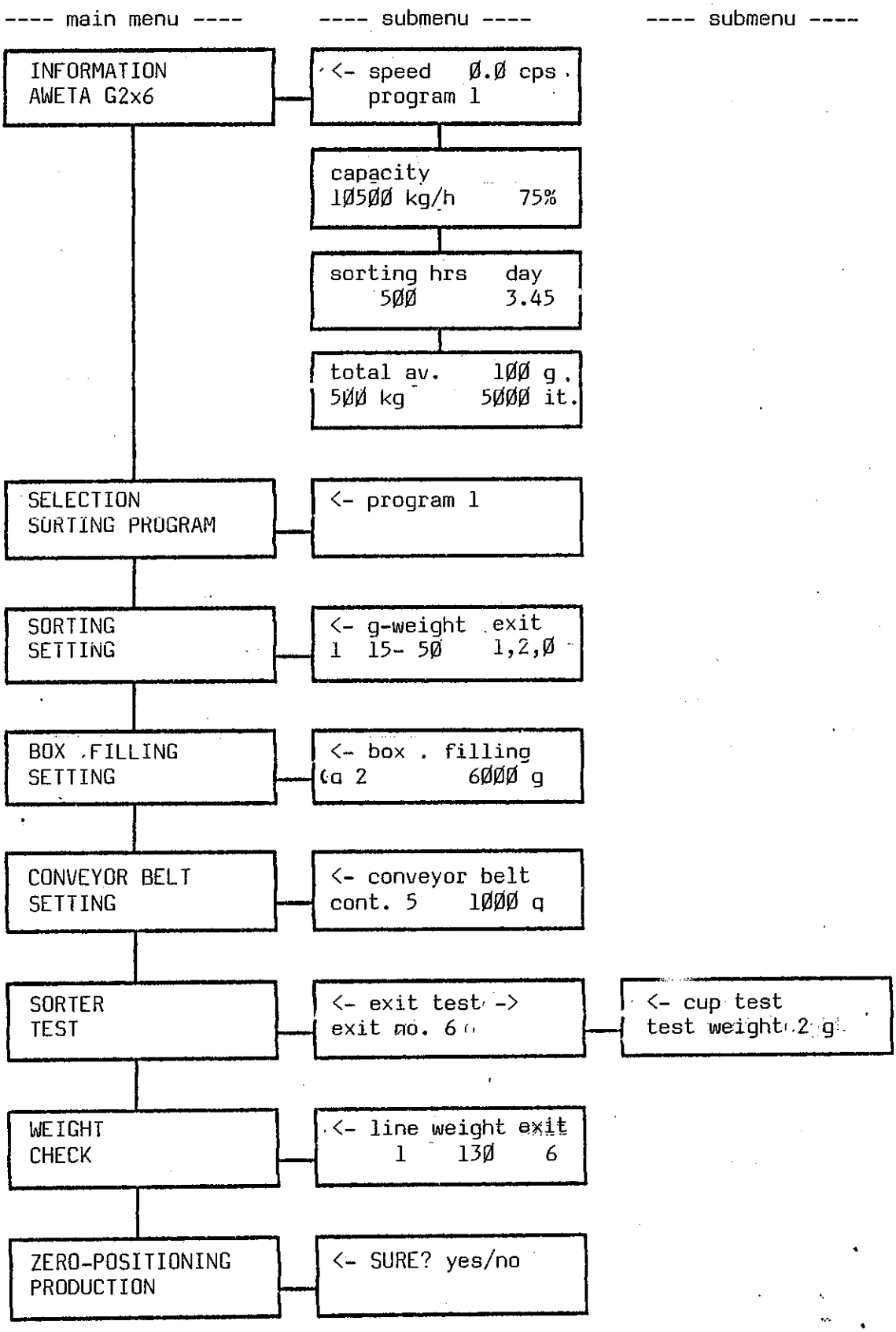
1.1 CONTROL PANEL

The computer control panel contains 2 push buttons, a turning knob and a 2-line LCD screen. This is the schematic representation:



If you switch on the computer or push 'reset', during 2 seconds the software version and the date it was issued will be displayed. This is followed by the first option of the main menu.
The next paragraph contains a summary of the whole menu structure.

1.2 MENU STRUCTURE



1.3 HANDLING THE MENU

With the turning knob you can pass through the various main menus.
Select the desired menu with knob 2 and you find yourself in a submenu.
In submenus a cursor (a dash) is used to indicate locations on the LCD screen. The cursor can be moved by means of the turning knob (but only if more than one location can be indicated).
You may return from the submenu to the previous menu by putting the cursor at the arrow pointing to the left and then pushing button 2.
In the same manner you can also go to the next submenu by electing the arrow pointing to the right.
A submenu may consist of various parts. In that case you can have a look at these by using the turning knob.

1.4 SETTING VALUES

Each numerical value subject to setting can be indicated with the cursor. Doing this and then pushing button 2 changes the cursor into a flashing block. At that moment you can use the turning knob to change the figure indicated by you between a minimum and a maximum value (keep button 2 pushed down while doing this).

1.5 ACTIVATING A FUNCTION WITH THE CURSOR

An example of this has already been mentioned above: the indication of an arrow pointing either to the left or the right, activating its functioning (going to the previous or the next menu) by pushing button 2. Generally speaking, each location on the LCD screen which can be indicated with the cursor, but is not a numerical value, represents a function which is activated by pushing button 2.

1.6 MAIN MENU FUNCTIONS

The following is a short description of the various functions contained in the main menu.

-INFORMATION AWETA G2x6

The corresponding submenu contains the following information:

a. The speed of the machine and the object program.
b. The current capacity and filling percentage of the machine.
c. The total number of sorting hours and the number per day. The latter number is erased simultaneously with the production data.
d. Production data such as the total number of kilograms and items, and also the average fruit weight.

-SELECTING SORTING PROGRAMS

There is room for a total of 20 sorting programs, the number set becoming the object program straight away.

-SORTING SETTINGS

This gives you the sorting settings of the object program. At this stage you decide the size of a weight class (i.e. grade) and the exit(s) the products of this grade must be guided to.

-SETTING BOX FILLING

The setting of the corresponding submenu also applies to the object program. It is only important to you if you have selected more than one exit for a single grade. A value (number of items or grams) can be set for each grade. As soon as the preset filling value is reached during sorting, the exit chosen as second or third is selected automatically.

-SETTING THE CONVEYOR BELT

This setting also applies to the object program. It is only of importance to you if you work with an accumulation conveyor system. For each exit a filling value is set. Once this filling value is reached the conveyor belt continues to operate for one second.

-SORTER TEST

This contains two submenus. The function of the first one is to test the change-overs at the various exits. The number of the exit test you can set offers a few test alternatives.

The second submenu carries out a cup test. Once this submenu has been selected, the weight of the cups is compared with the test weight. All cups weighing more than the standard set are dropped at exit 1. All cups weighing less are dropped at exit 2.

-WEIGHT CHECK

Per line, the corresponding submenu shows the weight (passing the balance) as well as the selected exit. Should the indicated weight for an empty machine differ strongly from zero, this can be corrected as follows: move the cursor until the text says 'weight'. This text will change into 'zeroing?'at the same moment. Now push button 2 in order to activate this function. This procedure should only be carried out when the machine is running,but empty!

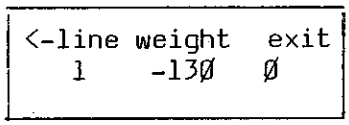
-ZERO-POSITIONING PRODUCTION

In the relevant submenu you can give the instruction to erase the production data. These include the sorting hours per day. Zero-positioning of the production data also takes place when you interrupt the power supply (or when there is a break in power supply!).

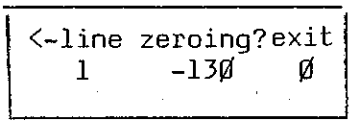
1.7 WEIGHT CALIBRATION (zeroing)

WWhen, with an empty but running machine, the weight indicated by the computer is not equal to zero, weight calibration (ZEROING) is important. Under the 'WEIGHT CHECK' menu the weight measured by the computer can be checked per line. Using the turning knob, now put the cursor on the position where the text 'weight' is shown and at once you see this text change into 'zeroing?'. Next, push button 2 and the weight for ALL lines will be set at zero. This means that zeroing is not affected by whatever line number you are looking at at that particular moment.

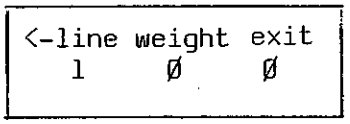
SUMMARIZING:



weight ≠ Ø



push button 2



weight = Ø

2 FAULT DIAGNOSIS

2.1 GENERAL

What can you do when your sorter breaks down?

This chapter lists a number of possible defects and what cause them. Often it will be possible to rectify the situation without needing outside help. Should you be confronted with a failure of any kind, please consult the checklist first.

If any type of breakdown repeats itself, it is wise to contact the dealer.

2.2 CHECKLIST

breakdown 1: The products on all lines are moving in a reverse direction.
cause : a. Sorting program in use has not been set.
b. Sorter deviating from zero.
c. Interrupter fouled (speed is either zero or incorrect).
d. Cups are not dropping.
e. Faulty fuse(s).
remedy : a. Select correct program or set a program.
b. Zero sorter. Empty the machine and choose the 'WEIGHT CHECK' menu. Move the cursor until the text 'zeroing?' appears. Then push button 2.
c. Clean interrupter.
d. See breakdown no.5 (cups are not dropping).
e. See paragraph 2.3 (replace fuse or fuses).

breakdown 2: The products on one particular sorting line are moving in a reverse direction.
cause : a. Balance blocked by dirt or by an object.
b. Load cell defect.
remedy : a. Remove and/or clean.
b. Have it replaced by the dealer.

breakdown 3: Exit change-over does not function.
cause : a. Plug on change-over coil is loose.
b. Change-over coil burnt out.
remedy : a. Fasten plug.
b. Replace change-over (or have the dealer take care of this).

breakdown 4: Speed is zero although the sorter is running.
cause : Interrupter fouled.
remedy : Clean with a brush.

breakdown 5: Cups are not dropping.
Check this with the aid of the test program. Select the 'SORTER TEST' menu and then push button 2. Set 'exit test 2' while the machine is running, but empty. If the cups do drop now, see breakdown 1 and 2.
cause : a. Fuse of one or more lines faulty.
b. Control electronics are not functioning (lamps in computer do not turn on).
remedy : a. See paragraph 2.3 (replace fuse or fuses).
b. Contact your dealer.

breakdown 6: Weight in the exits incorrect.
cause : a. Balance of one of the sorting lines fouled or blocked by an object.
b. One of the products on the various lines of the sorter produces a too great range in weight differences.
remedy : a. Remove and/or clean.
b. Have electronics readjusted by the dealer.

breakdown 7: Products are doubling regularly.
cause : a. Speed of the vertical conveyor too high.
b. The singling unit does not function properly. Black rollers should turn in a reverse direction.
remedy : a. Adjust speed.
b. Readjust speed and direction of rotation of the black rollers. If this does not produce the desired result, please contact the dealer.

breakdown 8: Regularly, objects or dirt in a balance.
cause : a. Speed of vertical conveyor too high.
b. One of the containers of that particular line has become detached.
remedy : Readjust speed.
b. Fit a new container.

breakdown 9: Machine running irregularly.
cause : a. Main motor slip coupling not tight enough.
b. Main motor slip coupling fouled with oil.
remedy : a. Readjust.
b. Clean.

2.3 REPLACING FUSES

In case a breakdown involves a faulty fuse, the correct procedure is as follows.

Switch off the power supply and replace the fuse. MAKE SURE YOU USE THE RIGHT TYPE OF FUSE!
In the case of an automatic cut-out: switch off the power supply and then push the button.
If the breakdown recurs: please contact your dealer.

2.4 SERVICE INDICATION

The sorting computer itself records the number of hours the machine has run. On completion of a period of time (table(48)), set by the service-man, the LCD screen of the computer shows the following message:

```
<- MAINTENANCE NO. 1
 COMPLETED    yes/no
```

This report serves as a reminder and is displayed as soon as the time set has elapsed and the computer panel has not been used for two minutes. It draws your attention to the maintenance schedule of your sorter.
The number indicates how many periods have already been gone through. If maintenance has taken place, you put the cursor on 'yes' and then push button 2. In case the selected time interval is 50 hours, the same message is displayed again after 50 running hours have gone by. If the cursor is in any other position than 'yes' and button 2 is pushed, you will find yourself automatically back in the main menu. However, after two minutes the message is displayed once more.