BENZING

EXPRESS
Club System

USER MANUAL

VERSION 1.5

ENGLISH

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General warning and safety instructions

Dear customer,

We congratulate you on having selected a product of Gantner Pigeon Systems GmbH. So that our product functions in your installation with safety and to your complete satisfaction, we take this opportunity to familiarise you with the following ground rules:

1. Installation, commissioning, operation and maintenance of the product purchased must be carried out in accordance with instructions, i.e. in accordance with the technical conditions of operation, as described in the corresponding product documentation.

2. Before either installation, commissioning, operation or maintenance it is therefore essential that you read the corresponding chapter of this manual and observe its instructions.

3. If there are still some points on which you are not entirely clear, please do not take a chance, but ask the customer adviser responsible for you.

4. Where not otherwise specifically laid down, appropriate installation, commissioning, operation and maintenance of the product is the customer's responsibility.

5. Directly on receipt of the goods, inspect both the packaging and the device itself for any signs of damage. Also check that the delivery is complete (-> accessories, documentation, auxiliary devices, etc.).

6. If the packaging has been damaged in transport or should you suspect that the product has been damaged or that it may have a fault, the product must not be put into service. In this case, contact your customer advisor. He will make every effort to resolve the problem as quickly as possible.

7. Servicing of our product must only be carried out by suitably trained personnel. Here, the appropriate installation provisions in accordance with the relative national Electrical Engineers construction regulations (e.g. ÖVE, [Austrian] VDE, [German]...) must be observed.

8. Where not otherwise stated, installation and maintenance work on our appliances is exclusively to be carried out when disconnected from the power supply. This applies in particular to appliances which are normally supplied by low-tension current.

9. It is prohibited to make alterations to the appliances.

10. Do not attempt yourself to repair an appliance after a defect, failure or damage, or to put it back into operation again. In such cases, it is essential you contact your customer adviser. We will make every effort to resolve the problem as quickly as possible.

11. Gantner Pigeon Systems GmbH accepts no responsibility for any injuries or damage caused as a result of improper use of the product.

12. Although every care is taken and we are continuously aiming for improvement, we cannot exclude completely the possibility of errors appearing in our documentation. Gantner Pigeon Systems GmbH therefore accepts no responsibility for the completeness or the accuracy of this manual. The right is reserved to make alterations, and we may carry out alterations at any time without giving prior notice.

13. Should you discover any fault with the product or in its accompanying documentation, or have any suggestions for improvement, you may confidently approach either your customer adviser or Gantner Pigeon Systems GmbH directly.

14. However, even if you just want to tell us that everything has functioned perfectly, we still look forward to hearing from you.

We wish you a successful application of our product. We will be pleased to welcome you as a customer again soon.

Contact address / Manufacturer:

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Montafonerstrasse 8
A - 6780 Schruns/Austria

TABLE OF CONTENTS

1. INTRODUCTION 7
1.1 Preface 7

2. GENERAL AND SAFETY INSTRUCTIONS 9

3. SYSTEM 11
3.1 System Components at the Club: EXPRESS 11
3.2 clubPOINT 12
3.3 Clock 12
3.4 Power Supply Unit 12
3.5 Red Badge 13
3.6 Orange Badge 13
3.7 Green Badge 13
3.8 Printer 13
3.9 Internal Antenna 13

4. THE EXPRESS IN DETAIL 15
4.1 Display 15
4.2 Menus 16
4.3 Different Status Possibilities 17
4.4 Key Functions 17

5. OPERATING INSTRUCTIONS 19
5.1 General Information 19
5.2 Registration of the Fanciers's Pigeons in the Club 19
5.3 Basketing 20
5.4 Evaluation 22
5.5 Configurations 23

6. APPLICATIONS 29
6.1 Registration 29
6.2 Basketing 31
6.3 Evaluation 35
6.4 Download 39

7. TROUBLE SHOOTING 41
7.1 Error Codes 41

8. GUARANTEE AND LIABILITY 43

9. SPECIFICATIONS 45
9.1 clubPOINT 45
9.2 Power Supply Unit to be Plugged In 45
9.3 Club Antenna (CAN) 45

1. INTRODUCTION

1.1 Preface

Dear customer,

By purchasing our club system EXPRESS you have made your choice of a reliable high-quality system, offering you considerable advantages in the practice of racing pigeons.

After unpacking the different components we would kindly ask you to read this manual carefully, as it contains important information on how to install and operate the complete club system EXPRESS quickly, safely and efficiently.

If any component has been damaged during the shipment do not apply power and don't operate the components. Contact your reseller immediately.

The components can only be repaired at a site authorized by GANTNER PIGEON SYSTEMS. All unauthorized manipulation to the EXPRESS system components lead to guarantee loss.

Never disconnect the pluggable power supply unit by pulling on its cord. Always unplug it by holding its on the housing.

This manual describes the functions, set-up and operation of the EXPRESS in a club.

2. GENERAL AND SAFETY INSTRUCTIONS

- After unpacking check the components immediately on possible damage.
- Do by no means connect a damaged set to the mains or start using it. Report to your authorized dealer immediately.
- The components are to be opened and repaired only by the manufacturing firm or an authorized service centre. Unauthorized handling will lead to the loss of any warranty claims whatsoever.
- Never disconnect the power supply unit by pulling its cord. Instead get hold of its case and gently pull it out.
- The temperature surrounding the EXPRESS should not drop down under 0 °C (+32 ° F) nor exceed +45 °C (+113 °F). It may reach a temperature of +70 °C (+158 °F) for the club antenna. If the temperature has fallen below 0 °C (+32 °F) - which means that condensed water is possibly formed - take the EXPRESS to a place with a room temperature of about +20 °C (+68 °F) and let it dry there for more or less one hour. Afterwards the equipment can be used without further problems. The storage temperature for the winter season ranges between -25 °C (-77 °F) and +70 °C (+158 °F) for the EXPRESS and may drop to –20 °C (-68 °F) for the club antenna.
- While in use, the EXPRESS should neither be exposed to rain nor to direct sunshine.
- Please check the correct position of the plugs on the clubPOINT and the CAN and mount the indicated plugs by using screws. Always pay attention to the correct direction when plugging in and out.
- Before the first start check the correct setting of the internal clock of the CAN or that the external clock (if used) receives the correct signal (see chapter 5.5 - Setting Time of CAN Clock).
- Please make sure that the printer of your EXPRESS is correctly set. This setting has to correspond with the type of printer connected at your club. If using the clubPOINT always choose the parallel printer.
- If the clubPOINT is in operation the green LED is always on.

3. SYSTEM

3.1 System Components at the Club: EXPRESS

a) 1 x Club Antenna CAN (with internal clock)
b) 1 x Club Cable
c) 1 x clubPOINT (printer node equipped with serial and parallel interface)
d) 1 x Power Supply Unit to be plugged in
e) 1 x Red Badge (registration)
f) 1 x Orange Badge (basketing)
g) 1 x Green Badge (evaluation)
h) 1 x PC Cable crossed (small plug DB-9F to small plug DB-9F)
i) 1 x Parallel Printer Cable (plug DB-25)
j) 2 x Cable PMDIN 1.5 m

a)

b)

c)

d)

e) f) g)

h)

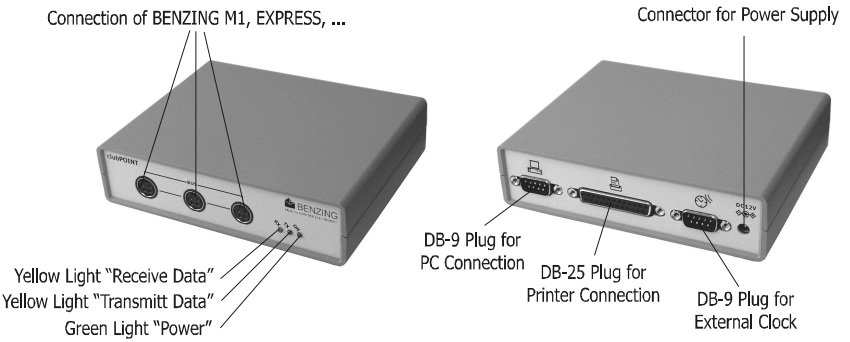
i)

j)

When using a printer check that it is compatible with the EXPRESS club system (see 3.8 - Printers). Before you assemble your new club system please check the complete existence of all components.

3.2 clubPOINT

The clubPOINT is equipped with a DB 25 plug used to connect a parallel printer, two DB 9 plugs used to connect a PC respectively an external clock, three connectors which have the same function (internally connected) to connect devices like BENZING M1, atis TOP or EXPRESS and a plug for connecting the power supply unit.



3.3 Clock

The clock is an important part of the club system. The internal clock of the CAN is standard equipment. If desired an external clock can be delivered (a radio clock, a Masterclock or a GPS clock).

If an external clock is used the CAN clock is automatically turned off.

3.4 Power Supply Unit

The Power Supply Unit is connected with the mains (110/230 volt) and supplies the clubPOINT, the EXPRESS and the club antenna (CAN) with the necessary low voltage (direct current of about 12 volt).

Attention: Only use a power supply unit recommended by your BENZING supplying agent!

3.5 Red Badge

This badge enables the user to authorize the registration of the pigeons. The person in charge of the registration is also in possession of the red badge.

3.6 Orange Badge

This badge enables the user to basket the pigeons at a race. It is in possession of the race secretary who is also responsible for the correct operation.

3.7 Green Badge

This badge enables the printing of the evaluation list. It is left in the custody of the race secretary who is also in charge of the correct operation.

3.8 Printer

The EXPRESS cannot be used with every printer. For a list of printers which guarantee for correct performance see our homepage www.gantner.com.
If you use another printer than those mentioned in the list on the homepage, try its performance or contact your delivering agent.

3.9 Internal Antenna

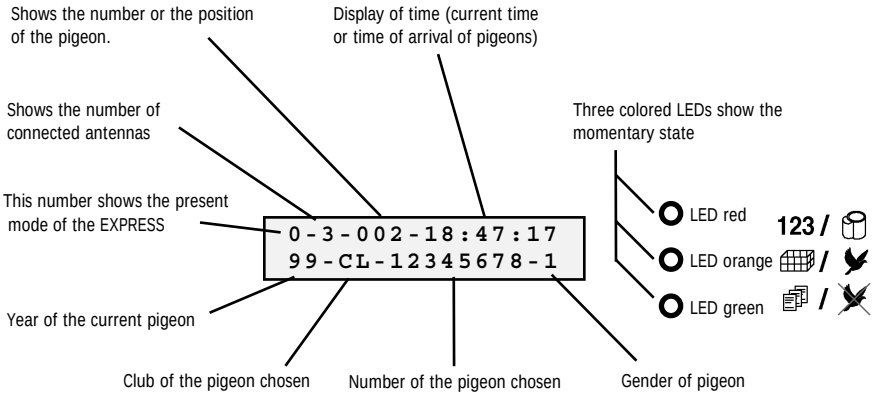
If no CAN (external clock) is used the pigeons have to be registered and basketed with the internal antenna of the EXPRESS.
Make sure that the EXPRESS is not installed above a compact metal surface as this can influence the correct performance of the internal antenna. Therefore a minimum distance of 6 centimeters (2.4 inches) should be kept between the EXPRESS and the metal surface. No particular distance however is required between small metal parts like screws, nails or metal bars and the EXPRESS.

Attention: The distance between a PC screen and the EXPRESS has to be at least 50 centimeters (19.7 inches).

4. THE EXPRESS IN DETAIL

4.1 Display

The display has 2 lines with 16 characters each. You can read it best by looking directly onto the display.



The first line is mainly used to display the number of antennas, the number of the pigeon or the position of the current pigeon and to indicate the current time or the time of arrival of the pigeon. The second line is used to display information and data of the current pigeon.

If the number of the position mode flashes a race has been started (number 0 equals a normal race, number 4 equals a training).

This symbol is used in the manual for 'LED is off '.

This symbol is used in the manual for 'LED is on '.

This symbol is used in the manual for 'LED flashes '.

4.2 Menus

The current mode of the EXPRESS appears as the first character of the first line on the display.

No.	Name	Description
0	Loft Mode	No race or training is in progress. → Setting of the system possible.
0	Active Loft Mode	At least one race is in progress. → The pigeons are stored, Setting is not possible.
1	Registration Mode	To register pigeons at the club or to communicate with the PC (a red badge is required).
2	Basketing Mode	Basketing of the pigeons at the club (an orange badge is required).
3	Evaluation Mode	Evaluation of the race (printing) (a green badge is required).
4	Training Mode	Training is in progress (no race).
5	Postregistration Mode	Registration during basketing (a red badge is required).
9	Configuration Mode	To set the EXPRESS (e.g.: date, time, etc.)
A	Identification Mode	To check the pigeons already arrived at the loft.

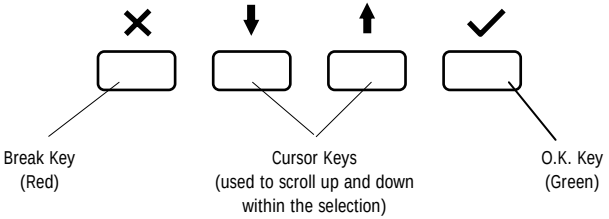
4.3 Different Status Possibilities

They are indicated by the three colored LEDs on the right.

LED is on	LED flashes	Description
	red	Error has occurred, report with error number will be indicated on the display of the EXPRESS (see chapter 7 - Trouble Shooting)
red		Communication with PC, red batch is required
	orange	To synchronize the EXPRESS with the CAN clock before basketing
orange		Race not evaluated
	green	External clock is compared with internal clock
green		An evaluated race (can be deleted)
	all LEDs	EXPRESS in configuration mode

4.4 Key Functions

The four keys are used to operate the EXPRESS



4.4.1 Break Key

It is used to cancel various functions.
- delete a race or a training
- get out of the registration list after arrival
- get out of various configurations
- cancel wrong settings
- delete registered pigeons

4.4.2 Cursor Keys

The two cursor keys showing ‘arrow up’ and ‘arrow down’ can be used to scroll up and down within a selection.
- flick through the list of registered pigeons after arrival
- change the indication of date and time
- select the settings
- select the race

4.4.3 OK Key

The green key can be used to get different functions started
- start a race
- start a training
- confirm date and time
- print
- move cursor

5. OPERATING INSTRUCTIONS

5.1 General Information

As standard equipment a CAN is used with an internal clock, thus turning off automatically the internal antenna of the EXPRESS.

If no CAN is connected the internal antenna of the EXPRESS has to be used.

Attention: All components of the system have to be connected first before plugging in the power! After having plugged in the power supply unit, the system is started.

5.2 Registration of the Fanciers's Pigeons in the Club

5.2.1 EXPRESS at the Club

To register the pigeons at the club (before the race season starts):

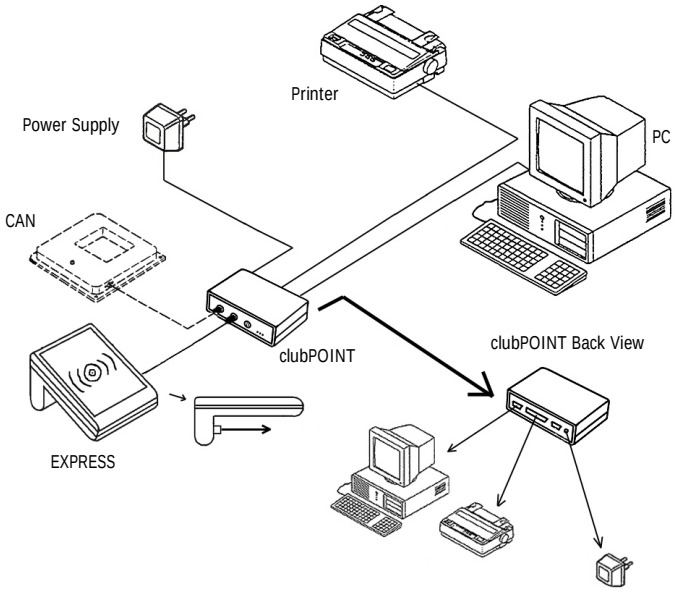


Figure 5.1 *- Register Pigeons at the Club*

250 pigeons can be displayed
250 pigeons can be set for the races

1. The fancier takes his pigeons and EXPRESS to the club.
2. The EXPRESS is connected with the club system like shown in figure 5.1. The functions are then released with the red badge (registration).
3. The ring numbers are typed into the EXPRESS via PC.
4. The ring numbers are written on the chip code rings.
5. You can keep track of possible errors on the PC screen.
6. All details of club members and registered pigeons will be printed in full.

5.3 Basketing

5.3.1 EXPRESS at the Club

Basketing of the pigeons at the club.

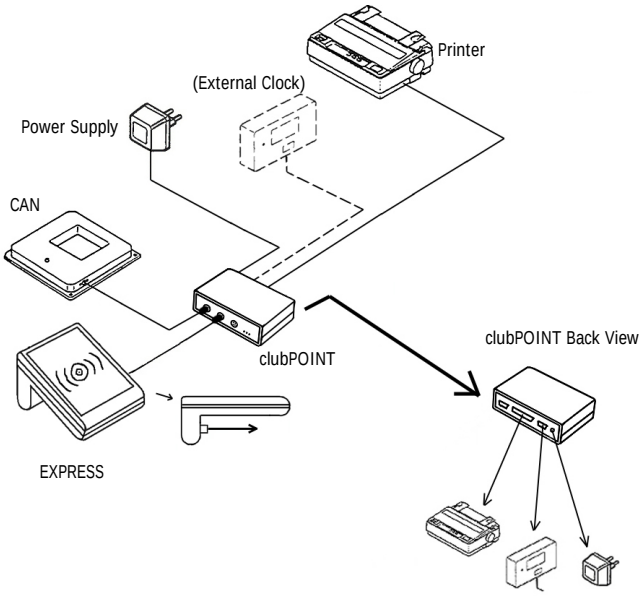


Figure 5.2 *- Basketing Pigeons at the Club*

Normally the internal clock of the CAN is used. Yet if desired an external clock (a radio clock, a Masterclock or a GPS clock) can be used.
When connecting the first EXPRESS with the club system the internal clock has to be set (see chapter 5.5 - Setting Time of CAN Clock).
No changes in the list of pigeons can be made unless you delete the race first.
The security code cannot be set nor be displayed. The number is shown only on the race evaluation.

1. The fancier takes his pigeons and EXPRESS to the club and connects the EXPRESS with the club system. The functions are released with the orange badge (basketing).
2. The EXPRESS is automatically sychronized with the internal clock of the CAN and then runs precisely via an internal quartz (an external clock is available only if desired). Possible differences of the clock will be considered in the calculations when evaluating the race. The advantage of this procedure is the fact that the clock is under constant surveillance of the race secretary during the whole race.
3. The pigeon is held over the CAN (or the internal antenna if an external clock is used), the secret number is written on the chip code ring and the number is shown on the EXPRESS display.
4. If a ring doesn't work, hold the red badge over the CAN and the EXPRESS automatically changes to the Postregistration Mode ("5"). Then hold a new ring over the CAN and after reading it put this ring onto the pigeon'
   A new registration list will be print out together with the basketing list.
5. The race is activated as soon as the first pigeon is basketed. While the race is activated ...
   - the date and time is locked
   - pigeons cannot be deleted
   - pigeons can only be basketed for <u>one</u> race.
6. The EXPRESS is handed back to the fancier.

5.4 Evaluation

5.4.1 EXPRESS at the Club

To print and delete the race evaluation

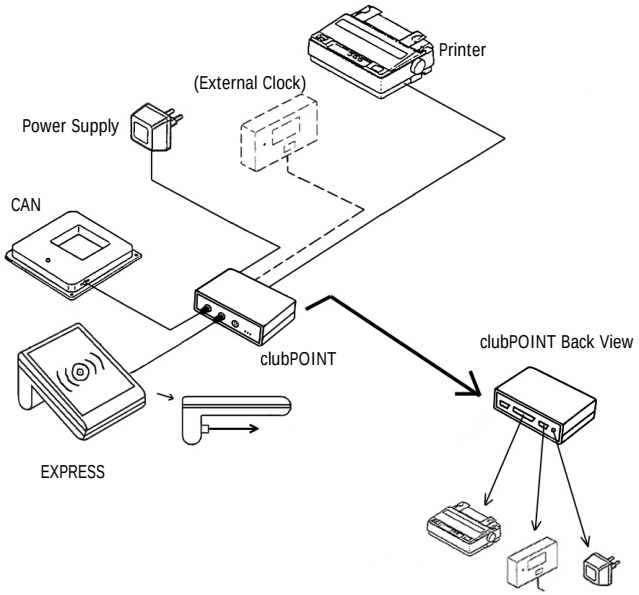


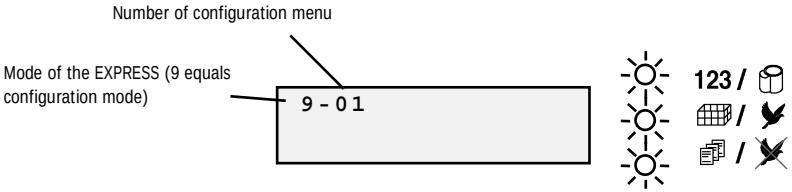
***Figure 5.3** – Evaluation of Races*

If desired the internal clock can be reset here when connecting the first EXPRESS to the club system (see chapter 5.5 - Setting Time of CAN Clock).

1. The fancier takes his EXPRESS to the club and connect it with the club system. The functions are then released with the green badge (evaluation).
2. Now the race can be chosen and the corresponding race evaluation is printed.
3. After the race evaluation has been printed, it can be deleted.

5.5 Configurations

If you press the Break and the OK key for five seconds at the same time, the configuration menu comes on. An acoustic signal can be heard and all LEDs start flashing.



The cursor keys indicating the arrows enable you to flick through the configuration menu.

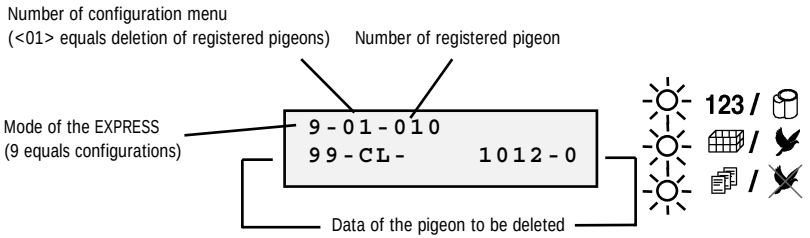
Number of Menu	Description of Menu
01	Delete registered pigeons
02	Set time and date
03	Read and check date and time of CAN
04	Set date and time of CAN
05	Only for Taiwan / China
06-1	Print registering list
06-2	Print arriving birds list

Table 3.1. *- Menu Items in the Configuration Menu*

By pressing the OK key the submenu comes on.

5.5.1 Delete Registered Pigeons

You can only select this menu if there is no race or training in progress.



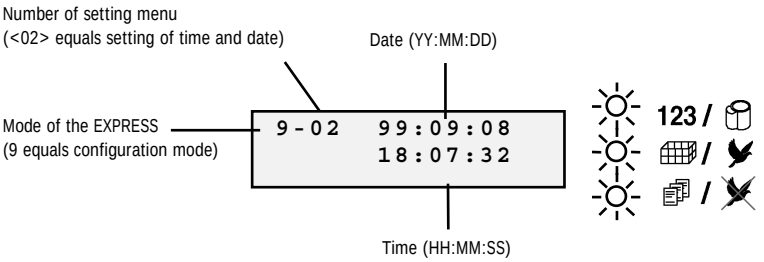
By using the cursor keys indicating the arrows you can select the pigeon to be deleted.

By keeping the break key pressed for 5 seconds and then pressing it again to confirm, the pigeon can be deleted (a short bleep will be heard).

If you want to return to the loft mode, you will have to press the break key.

5.5.2 Setting Time and Date of the EXPRESS

You can select this menu only if there is no race or training in progress.

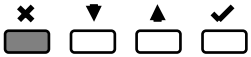


By pressing the OK key the flashing cursor moves to the right.

By pressing the cursor keys you can increase or decrease the numbers of the selected position.

Press the OK key if the cursor is on the last position. The new setting is now stored.

If you press the Break key you can return to the loft mode without storing the settings.



5.5.3 Read and Set Time and Date of CAN Clock

This section describes how the internal clock of the CAN can be read and displayed on the EXPRESS and how it can be set.

For an easy structure of the club system, the CAN (Club Antenna) is equipped with an internal clock. So it is not necessary to use an external master clock.

If an external clock is used nevertheless, the external clock is accountable for the synchronization with the clock of the EXPRESS. In this case, the internal clock of the CAN is not activated.

The time of the CAN will be set with an EXPRESS.

Attention: There must not be an external clock plugged in, while setting the internal CAN clock.

The EXPRESS needs to be connected to the club system as shown below.

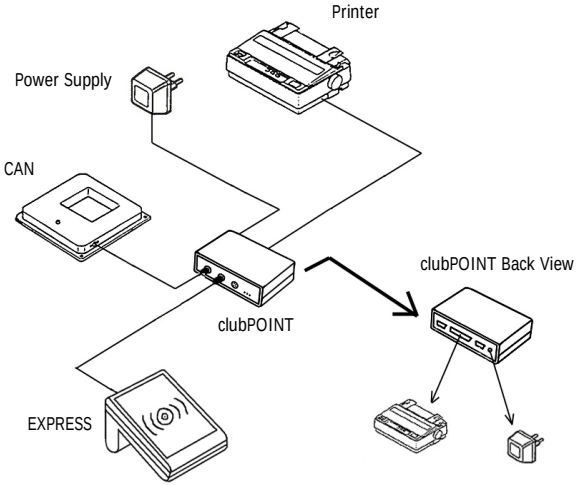
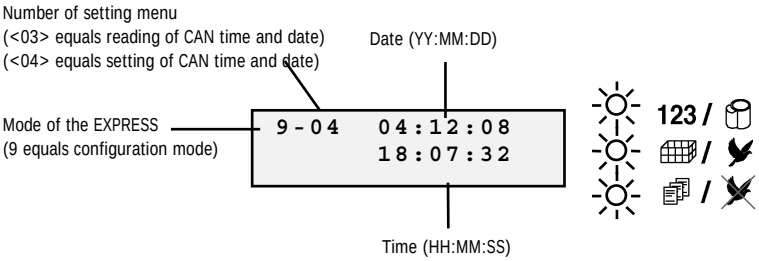


***Figure 5.4** – Setting CAN Clock*

Connect the EXPRESS to the clubPOINT. In the configuration menu select the menu 03 if you want to only read and display the time and date of the CAN or select the menu 04 if you want to set the date and time of the CAN.



When you select the menu 03 you can only read the date and time of the CAN, but not change it. With the menu 04 you can change and set the date and time of the CAN. By pressing the OK key the flashing cursor moves to the right.

By pressing the cursor keys you can increase or decrease the numbers of the selected position.

Press the OK key if the cursor is on the last position. The date and time are now set in the CAN.

If you press the Break key you can return to the loft mode without storing the settings.

Note: It is also possible to set the date and time of several CAN at once. Therefore connect the CAN to the clubPOINT like shown in figure 5.5.

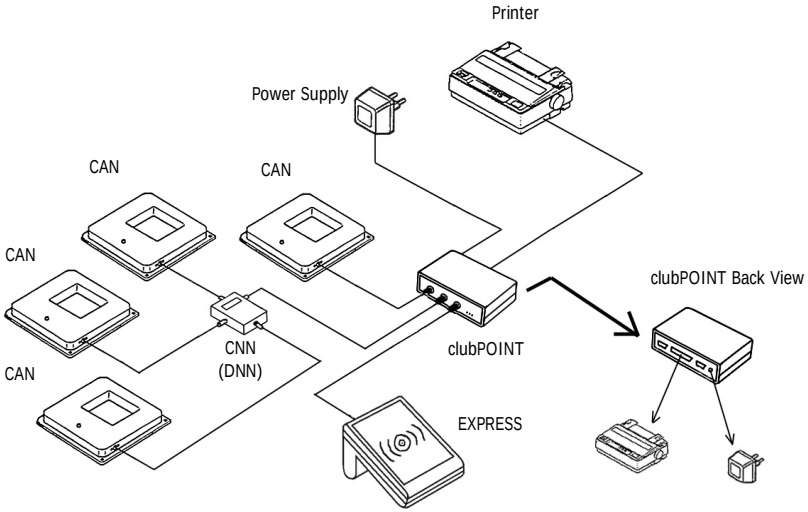


Figure 5.5 *– Setting more CAN Clocks in one step*

6. APPLICATIONS

The club system enables you to register and basket the pigeons, to print evaluations and to update the EXPRESS with a new software (see also chapter 5).

6.1 Registration

For registering pigeons at a club the following parts are needed:

- clubPOINT
- Cable PMDIN 1.5 m (only if CAN connected)
- PC with the software of the club and a connection power cable
- EXPRESS
- Registration Badge (Red)
- Printer
- Parallel Printer Cable
- EXPRESS Adapter Cable
- PC RS 232 Cable

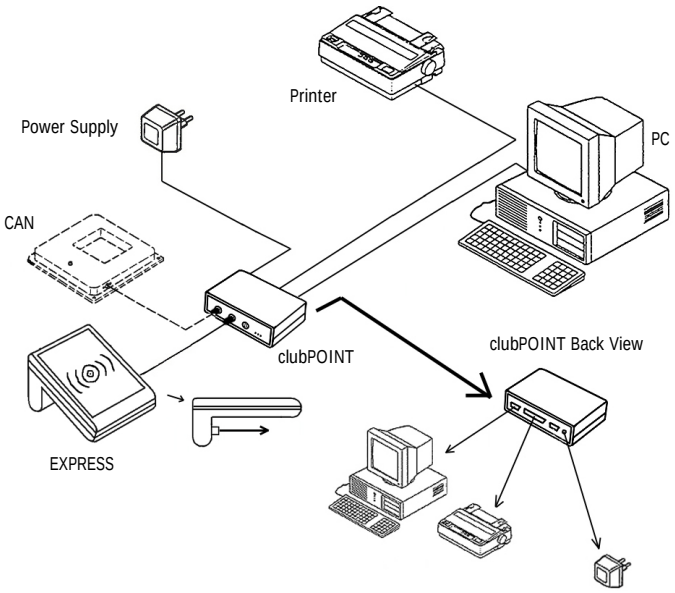
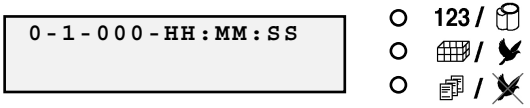
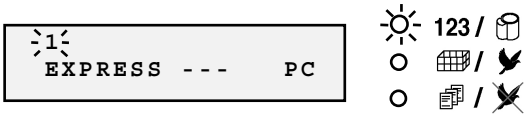


Figure 6.1 *- Registering Pigeons at the Club*

1. Connect the EXPRESS with the club system (clubPOINT).



2. Hold the red badge (registration) over the internal antenna (or CAN). A short bleep will tell you, that the badge has been recognized.



Position <1> flashes as long as the communication with the PC is on.

3. Boot the PC and start the software of your club.

4. From now on you will be working on your PC.

5. If you keep the "OK" key pressed for more than 5 seconds, you will start the printer which then prints out the list of registered pigeons.

6.2 Basketing

For basketing pigeons the following parts are needed:

- clubPOINT
- Cable PMDIN 1.5 m
- EXPRESS
- Basketing Badge (Orange)
- Printer
- Parallel Printer Cable
- CAN (Internal Clock)
- EXPRESS Adapter Cable

If desired an external clock (a radio clock, a Masterclock or a GPS clock) can be used instead of the CAN.

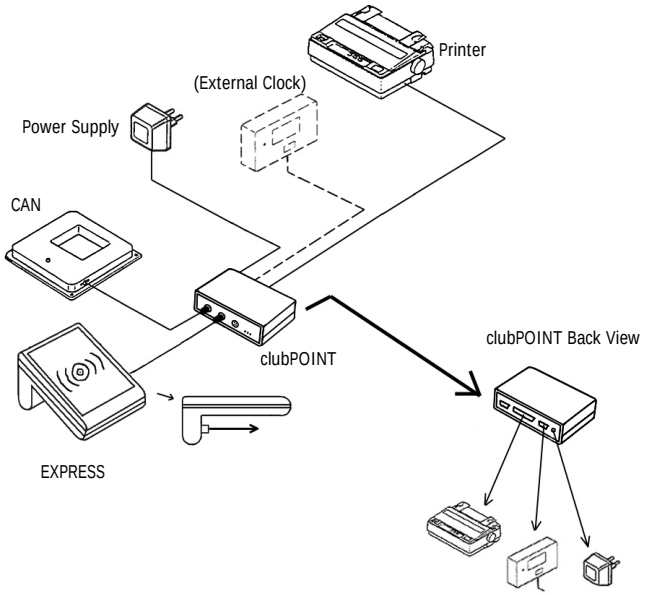
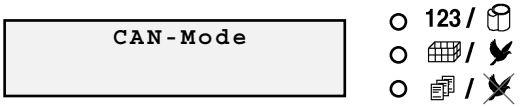


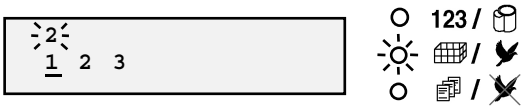
***Figure 6.2** – Basketing Pigeons At The Club*

1. Connect the EXPRESS with the club system (clubPOINT). After a short system check the following appears on the display.



2. Keep the "OK" and "Break" key pressed for 5 seconds (only if using the internal clock of the CAN) and you will get into the configuration mode "9". Here you have to select position "04" with the "Cursor" keys and then press the "OK" key in order to set the internal clock of the CAN.
   The cursor is moved with the "OK" key and you can increase and decrease the corresponding numbers with the "Cursor" keys. If you confirm the inserted data it will be stored.
   By using the "Break" key the procedure can be interrupted. The EXPRESS will get back into the loft mode.

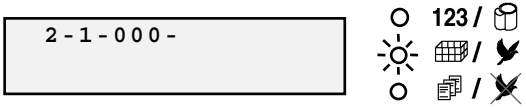
3. Hold the orange badge over the internal (or CAN) antenna. A short beep will tell you that the badge has been recognized. The orange LED and position <2> are flashing at the same time and the following appears on the display:



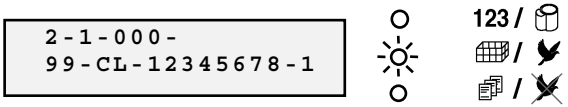
4. The two keys showing arrow up/down enable you to choose the race number which is used to basket the pigeon.

5. Choose the race number and then press the "OK" key. Position <2> stops blinking.

Notice: The number of races is limited to 8.

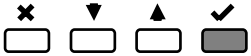


6. If a pigeon is hold over the CAN (or internal antenna) the following appears on the display:

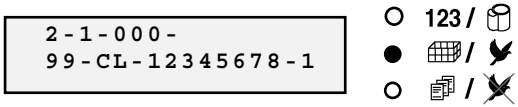


Now all pigeons that are not set for a race can be basketed.

7. If you keep the "OK" key pressed for more than five seconds, you will start the printer which then prints out the list of pigeons basketed.

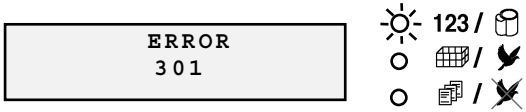


Now the orange LED is permanently on which tells you, that the race has been started. The light will continue to be on until the race has been deleted.



If you want to print out the race, you have to choose the same race number again.

Error: If the printer is not connected correctly or off, or if there is no paper in the printer, the following appears on the display after about 10 seconds:



Please check if the printer is correctly connected or if there is enough paper in the printer

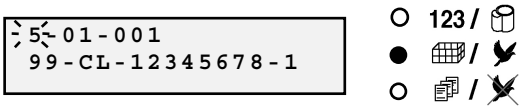
By pressing the function key "OK" you continue printing.

Notice: If you have forgotten to basket a pigeon for a race, you can basket the pigeon later at any time chosen.

6.2.1 Registration While Basketing

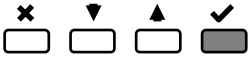
If a chip code ring is not recognized while basketing, it is possible to use a new ring.

1. Hold the red badge over the CAN (or the internal antenna) and the following appears on the display:

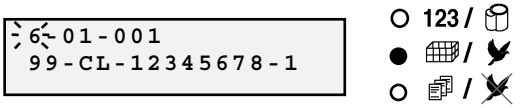


2. By using the two keys showing arrow up/down you choose the pigeon with the faulty chip code ring on the list of the registered pigeons

3. Press the "OK" key and hold the new chip code ring over the CAN (or the internal antenna).



The new ring number appears on the display:



The pigeon ring is written again and you can continue basketing.

By using the function key "Break" you can continue basketing without writing the new ring.

6.3 Evaluation

In order to print and delete a race the following parts are needed:

- clubPOINT
- Cable PMDIN 1.5 m
- EXPRESS
- Evaluation Badge (Green)
- Printer
- Parallel Printer Cable
- CAN (Internal Clock)
- External Clock (only if desired)
- EXPRESS Adapter Cable

An external clock (radio clock, Masterclock or a GPS clock) can be used instead of the CAN.

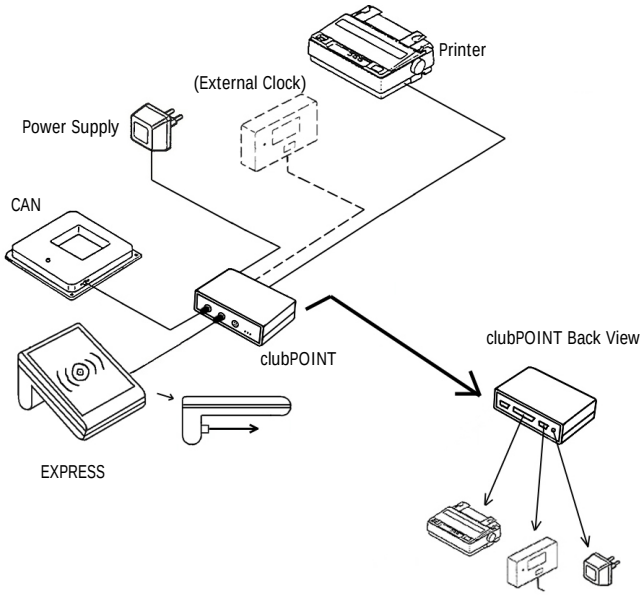
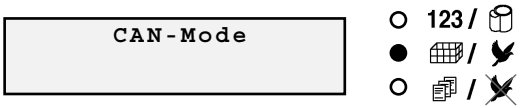


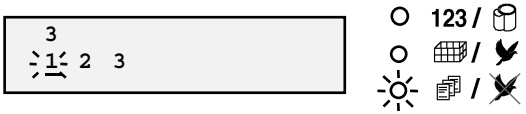
Figure 6.3 *– Evaluating Races At The Club*

1. Connect the EXPRESS with the club system (clubPOINT).



2. If desired, the internal clock of the CAN can be read out, (9-03) or it can be set (9-04) before the evaluation (see 5.4 - Evaluation).

3. Hold the green badge over the CAN (or the internal antenna). A short bleep will tell you, that the badge has been recognized. The green LED and position <3> are flashing und the following appears on the display:

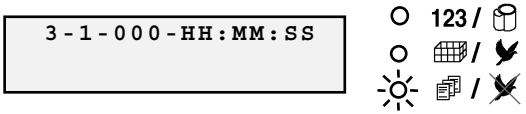


Notice: Only those races which can be printed will be shown on the second line of the display.

4. You can choose the races by using the keys showing arrow up/down. The race number chosen for the time being is flashing and underlined.

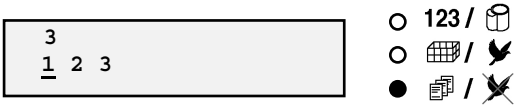
5. Choose the race number by pressing the "OK" key.

Now position <3> stops blinking and the evaluation mode appears on the display.

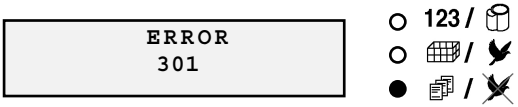


6. If you keep the "OK" key pressed for 5 seconds, the evaluation list will be printed in full.

The green LED is constantly on until the race has been deleted.



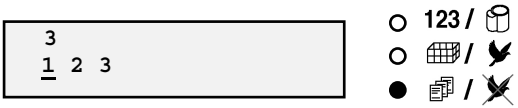
Error: If the printer is not correctly connected or off, or if there is no paper in the printer, the following appears on the display after about 10 seconds:



Please check if the printer is correctly connected, or if there is enough paper in the printer.

By pressing the function key "OK" you continue printing.

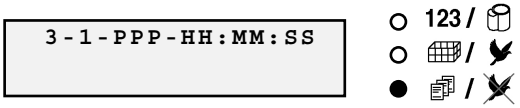
After printing you get to the evaluation menu, which can also be chosen with the green badge.



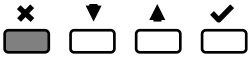
1. You can choose the races by using the keys showing arrows up/down. The race number chosen for the time being is flashing and underlined.

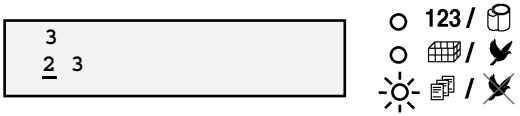
2. Choose the race number by pressing the "OK" key.

Now position <3> stops blinking and the evaluation mode appears on the display. The green LED is constantly on if the chosen race has already been printed.

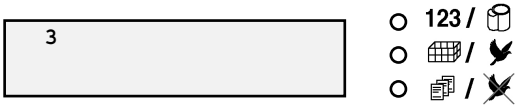


3. If you keep the function key "Break" pressed for ca. 5 to 7 seconds, the chosen race is deleted.





All LEDs will be turned off, if all races have been deleted.



6.4 Download

If a new software is available for the EXPRESS, it can be loaded into the EXPRESS at the club.

The list of registered pigeons will not be influenced by this download!

For a software update the following parts are needed:
- clubPOINT
- Cable PMDIN 1.5 m
- PC with a download software and a connection power cable
- EXPRESS
- Power Supply
- EXPRESS Adapter Cable

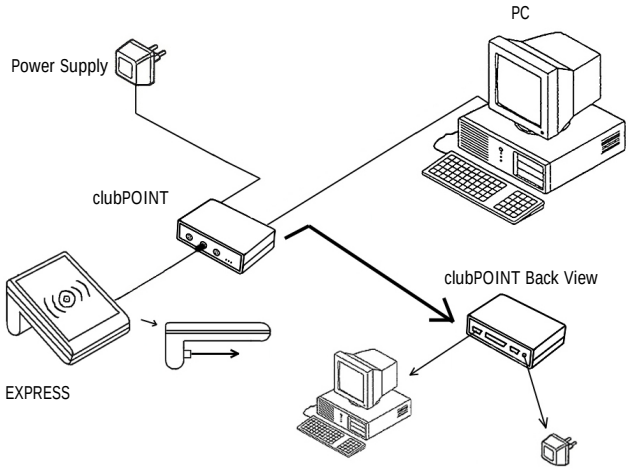
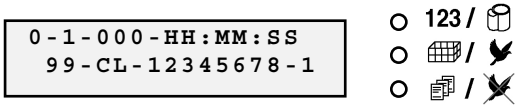


Figure 6.4 – *Download of new Software into EXPRESS*

1. Connect the EXPRESS with the club system (clubPOINT). After a short system check the following appears on the display:



2. Boot the PC.

3. Start the Download Program on the PC. The program has an integrated help which gives detailed information how to operate the program.

4. On the display of the EXPRESS the following appears:

The download can take some time, as it depends on how fast the computer performs and **may never be interrupted.**
If the download is finished, there will be a short bleep from the EXPRESS and the fancier mode is started.

5. If you want to load several EXPRESS devices, start again at step 1 and follow the instructions from there one by one.

The download software is available for Windows 95, Windows 98, Windows ME, Windows 2000 and Windows XP. Ask your delivering agent or contact GANTNER PIGEON SYSTEMS GMBH.

7. TROUBLE SHOOTING

7.1 Error Codes

In case of an error at the club antenna CAN an error code followed by the text "FAULT" will be indicate on the display of the EXPRESS. The following error codes are possible.

7.1.1 At the Loft

Display	Description
111	No external clock found
112	Clock cannot be set
113	External clock does not respond or error in setting the time
114	A race has been started
116	No GPS connected
117	GPS co-ordinates wrong
118	GPS co-ordinates not valid
121	Connection with antenna interrupted
141	No pigeon registered
142	Race or training in progress

7.1.2 At the Club

Display	Description
211	ClubPOINT is not connected
212	External clock not active (disconnected)
213	External clock not active (no reception of signal)
214	No external power supply
215	Internal clock cannot be set at the club
231	Race was not printed
233	All races printed – basketing not possible
234	No race in progress
241	No pigeons registered
242	Pigeon is not registered
243	Pigeon has already been basketed

244	Pigeon has been assigned to another race
245	The ring has already been assigned
246	Only for club usage
247	Wrong serial number of ring
248	Wrong ring type
249	Can't read serial number of ring
250	Check the device! Battery low?

7.1.3 Printer

Display	Description
301	Printer is disconnected or switched off
302	Out of paper / paper jam

7.1.4 Communication

Display	Description
401	Communication error to the PC
402	Communication error to the MCN

7.1.5 Other Matters

Display	Description
501	License expired (Taiwan)
511	Flash is out of order - please contact BENZING

8. GUARANTEE AND LIABILITY

For the EXPRESS we provide a

two-year limited warranty

concerning perfect material and performance. This means, that all parts which prove to be useless or defective during this period of time as a result of defective material, or poor workmanship will be exchanged or replaced free of charge.

The warranty does neither include the fees charged for the delivery of the exchanged or replaced parts nor wear and tear nor damages stemming from careless and improper use.

The warranty will not apply, if parts of the system are opened by someone who is not explicitly authorized by us to do so.

The instructions are to be followed carefully. No guarantee or liability whatsoever will be provided regarding the safeness against manipulation, the loss or the correctness of the indicated, printed or transferred data or results.

A type-specific general authorization for the EXPRESS system has been issued by the BAPT (Bundesamt für Post und Telekommunikation – Federal Bureau for Postal Services and Telecommunication). This means that no licence is required and it may be operated free of charge. All relevant parts of the EXPRESS system were examined according to the CE regulations, were certified according to the EN 60950 (IEC 950) and meet the DIN/VDE 0850 guidelines. In addition the EXPRESS system already meets the requirements set up by the ETSI (European Telecommunication Standard Institute).

9. SPECIFICATIONS

9.1 clubPOINT

Voltage:	9 to 20 VDC, regular 12 VDC
Current:	a maximum of 150 mA, regular 50 mA (without external equipment)
Interface:	RS 232C, RS 485, CENTRONICS
Display:	3 LEDs
Case:	plastic ABS
Dimensions:	140 x 110 x 37 mm (L x W x H)
Weight:	approx. 0.2 kg
Operating Temp.:	0 °C (+32 °F) to +50 °C (+122 °F)
Storage Temp.:	-25 °C (-77 °F) to +70 °C (+158 °F)

9.2 Power Supply Unit to be Plugged In

Mains Voltage:	210 to 230 V 50/60 Hz
Output Voltage:	13 VDC
Power Consumption:	11 W

9.3 Club Antenna (CAN)

Ring types:	VR 1, UCR 2, BR 2001, BR (2, 3, 4, 5, ...), Tipes 601
Voltage:	9 to 20 VDC, regular 12 VDC
Current:	0.25 A
Interface:	RS 485
Display:	1 LED
Case:	plastic
Dimensions:	210 x 210 x 31 mm (L x B x H)
Weight:	0.38 kg
Operating Temp.:	0 °C (+32 °F) to +45 °C (+113 °F)
Storage Temp.:	-20 °C (-68 °F) to +70 °C (+158 °F)
Protection class:	IP 52

Note:
This manual is valid as of January 27th, 2005. It is subject to change,
amendments and changes can be made without prior notice at any time.

PartNo.: 785727

BENZING
GANTNER PIGEON SYSTEMS
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