A Fanciers Guide to the G2

G2 Guide written by Jim Savage of Homing Pigeons

Firstly congratulations if you bought a Benzing G2 ETS pigeon timing system, you have made the right choice, perhaps one of the simplest, easiest and most reliable electronic clocks available on the market today and if you bought it from Homing Pigeons then it comes with a free 24 hour help line and technical back up, yip that's me.

I've put this fanciers guide together to help get you started, but if you are still not clear as to what buttons to press on the clock, then do not hesitate to Contact me , or why not join the Homing Pigeons Forum and post your query's or questions there.

Please Note:- This is not the official manual for the Benzing Express G2 clock.

I have put this guide together for the benefit of the "Homing Pigeons" Benzing G2 customers to give them a general understanding of the workings of the clock and to help them easily understand what buttons they need to press to access the clock features.

To simplify things I have broken the fanciers guide into different sections and below each of the sections I have included some of the most commonly asked questions.

I have also included at the end of the guide some technical help information and general questions that I am asked about Benzing clocks and electronic pigeon timing systems.

If there is something you are still not clear about with the G2 clock or if you find any errors within this guide please let me know and I will do my best to assist you.

Yours in Sport

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What you should have in the G2 package when you purchased it.

In the package you will have received the G2 clock, a clock holder cradle, 2 x ultra slim 6" x 5" antenna pads with a 9 foot cable attached to each of them with a jack plug at the end of the antenna cable, a controller unit box, 15 feet of cable with a 15 pin connector plug on one end and a 15 pin connector socket on the other end and a 12 volt power supply mains adaptor. All of these parts will be required for the loft setup.

You may also find that you have another 5 foot cable with a 4 pin plug on one end and a 15 pin plug on the other end this cable is not required for the loft setup. This is the universal cable for the clock which is used to connect to any manufacturer's clubsystem, *example*:- Benzing, Unikon, Bricon, Tipes, Mega, Tauris, etc… It is however strongly advised that you take this cable with you if you are intending to go to a marking station that does not have a Benzing clubsystem or if you are not sure if it does.

There is also a CD, disc in the package. This is the PC software Benzing utility disc and it contains all the necessary software programs for the computer, along with the help files and instructions to support both the M1 and the G2 clocks. Unless you have purchased the G2 docking station, G2 data cable or you are setting up the clubsystem to assign ETS rings to the fancier's clocks you will not require this disc.

Setting up and understanding and operating the G2 clock in the loft.

Installation

First thing to do is plan out and think about where you are going to install everything. The most important part of the installation is where and how you are going to mount the antenna pads. If you look at the top of the pads you will see arrows pointing in one direction and although these pads will work in any direction, even upside down, it is recommended that you mount the pads in the same direction that the pigeon will come into the loft and over them, with the arrow pointing inwards to the inside of the loft.
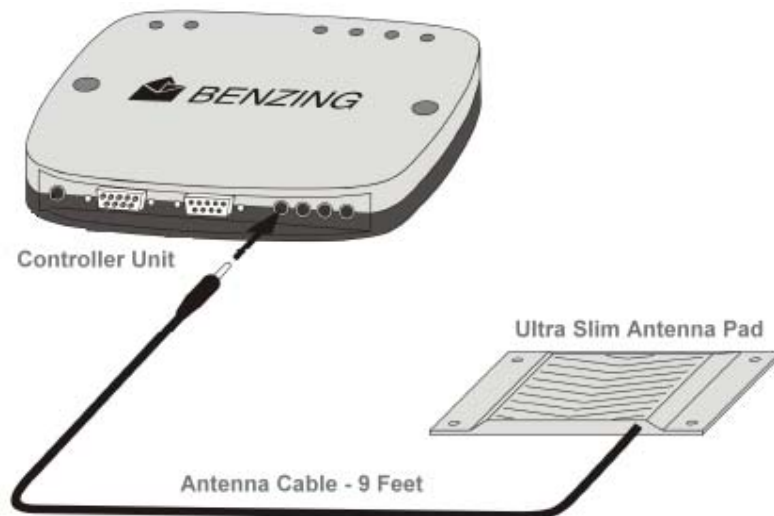
Every fanciers loft is different and we all have our own ideas for trapping systems and clocking the pigeons on race day. What is important to remember is that when the pigeon enters the loft it must walk over the pad to be recorded on the clock.

Best arrangement is to make a shelf just inside at the back of the trapping entrance or where the pigeon will enter the loft and can walk or drop onto it. Mount the pads onto the top of this shelf. To keep them clean you can cover them with a quarter or half inch piece of plywood or similar non conductive material. You can also if you prefer, make the shelf and then mount the pads up underneath it or make another shelf on runners to mount the pads onto and then slide this shelf underneath the top shelf.

The G2 antenna pad can pick up an ETS chip ring up to 4 inches above the height of the pad, but is not recommended to arrange the pads in a way where the pigeon has got to fly over them. You will find that it will record some pigeons but not others.

It is also very important to take note that in the UK the antenna pads must be fitted inside the loft. Check with your Union, Federation or Club ETS ruling on this.

When you are satisfied that you have successfully installed your antenna pads mount the controller unit, next to or near the trapping area or within the length of the antenna cables. Plug the jack plugs for each pad into the controller unit. You can connect 4 x pads into 1 controller unit and you can connect 2 x controller units together to give you a maximum of up to 8 x ultra slim pads. It is also possible, if you require more pads to extend the system by adding 5 of the new 7.5 inch pads – New G2 Antenna Pads
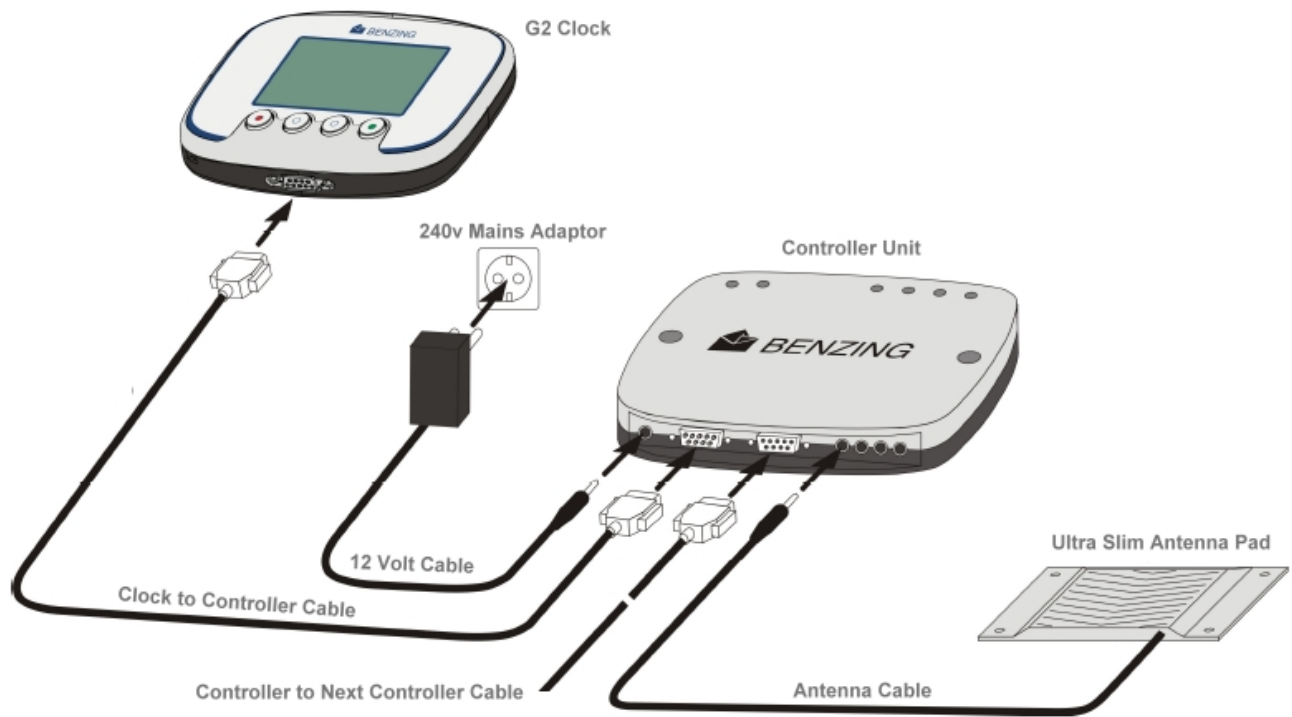

Do not attempt to extend or shorten the 9 feet length of the antenna cable as this will greatly reduce the strength of the antenna field.

Next thing to do now is mount your clock cradle where you want to put the G2 clock. Best place, is to put it near the door and up at eye level where you can see it when you need to. This can be mounted up to 15 feet away from the controller unit.
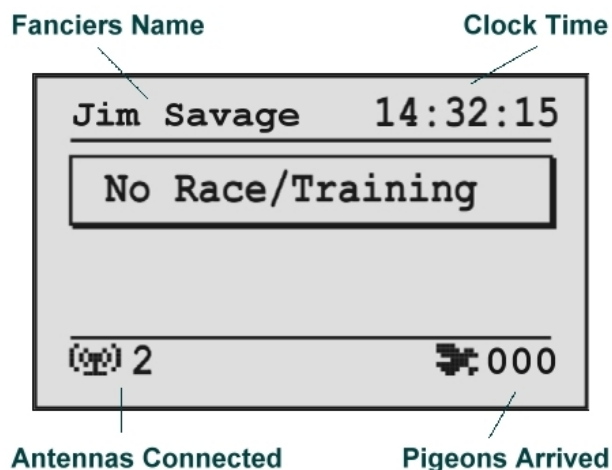
Connect the clock to controller cables 15 pin connector socket into the 15 pin plug in the controller unit, this is the first 15 pin connector on the left of the unit and then run the cable up to the clock. Ensure it is free enough for you to connect it to the G2 clock and still enables you to lift the clock in and out of the cradle. If this cable needs to be longer then you can purchase either a 30 feet or an 80 feet length cable for this.

Connect in the 12 volt power supply jack socket into the controller unit, on the left hand side and plug the adaptor into the mains 240v wall socket. Installation is now complete.

G2 Clock

240v Mains Adaptor

Controller Unit

Ultra Slim Antenna Pad

12 Volt Cable

Clock to Controller Cable

Controller to Next Controller Cable

Antenna Cable

Power Up

After you have installed the system, ensure that everything is connected properly and that all the wires are tied up to prevent any possible accidental damage to them. Switch on the mains power. On the clocks LCD display it will first show the Benzing logo and below it the installed software. It will then do a network check on the antennas connected and come up in its main menu "No Race/Training".

Fanciers Name

Clock Time

Jim Savage   14:32:15

No Race/Training

2   000

Antennas Connected   Pigeons Arrived

If the clock has already been setup with the Clubsystem, then at the top of the display the fanciers name will be shown. If it has not been setup then it will show the name, "Benzing".
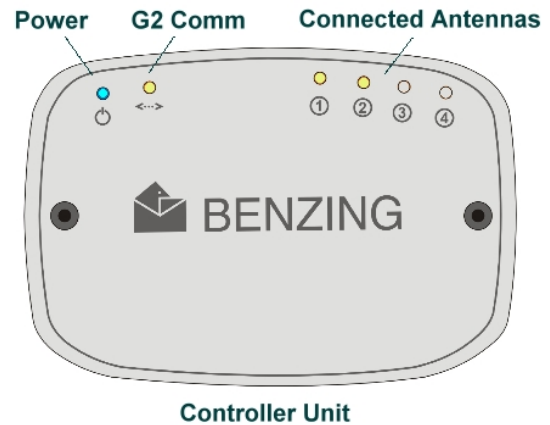
It will display the current time on the clock at top right and the number of antenna pads that are connected, bottom left. On the bottom right it will display the number of pigeons that have arrived either from the training or from a race.

In its normal mode when you are not at a race or in the training mode, the main display will show no race is active and no training is active.

On the controller unit the blue led light will now be on showing that the power is connected. The G2 yellow communication led will come on when the clock is connected.
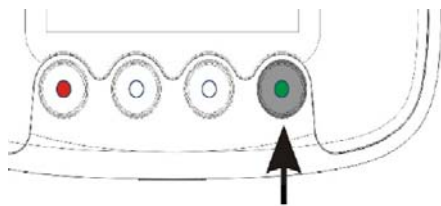
The yellow led's 1, 2, 3 and 4 will flicker rapidly when there are antenna pads connected to the corresponding jack sockets below them.

Note:- always connect the antenna pads into the controller unit first before powering up the clock otherwise it will come up on the display with "Antenna Error".
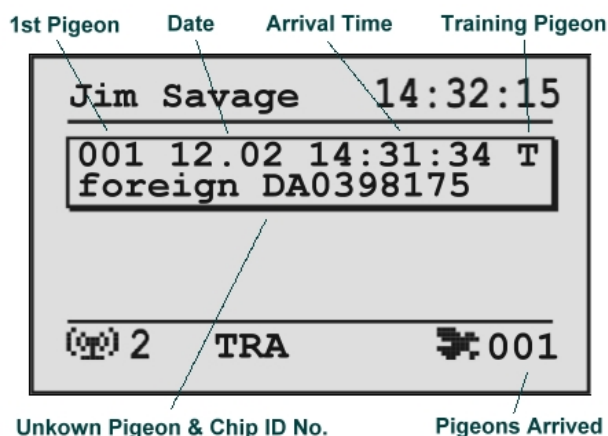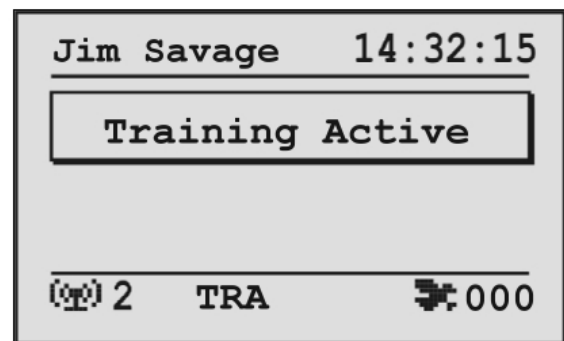

Controller Unit

Testing the Clock while in Training Mode

To test that all is working okay and that the antenna pads are registering the ETS chip rings put the clock into its training mode.

Press and hold down the **GREEN** button for 3 seconds. The display menu will change to "Training Active" and the clock will bleep.

Scan one of your ETS ring across the antenna pad. If the chip ring has already been assigned to one of your pigeons via the Clubsystem then its registration life ring number will appear on the display. It will bleep when it picks it up.
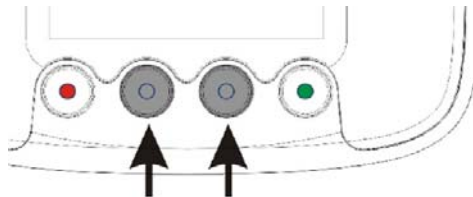
If the ring is not assigned to your pigeon then it will be shown on the clock as an unknown, foreign pigeon along with its chip ID number.

When you scan more rings across the antenna pads or when more pigeons arrive back from the training then the pigeons will drop down the display, always showing you in the box area at the top of the screen the last pigeon to be clocked in.
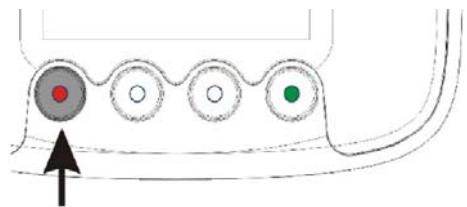
By pressing either of the 2 middle buttons on the clock will allow you to scroll up or down through the pigeons that have arrived.

```
┌────────────────────────────┐
│ Jim Savage      14:32:15   │
│ ┌────────────────────────┐ │
│ │003 12.02 14:31:43 T│ │
│ │SU 09 A        4531 C│ │
│ └────────────────────────┘ │
│ 002      4532 14:31:37   │
│ 001 foreign 14:31:34   │
│ ────────────────────────── │
│ (T)2    TRA       ⇻003   │
└────────────────────────────┘
```


It is important to note that when testing and scanning ETS chip rings that are not assigned to your pigeons, i.e. "foreign pigeons" then it will only scan and register 5 of them on the clock.

If you want to scan more than 5 chip rings that are not assigned to your clock, then you will need to come out of the training mode by pressing and holding down the **RED** button for 3 seconds to clear the training and then go back into the training mode again.
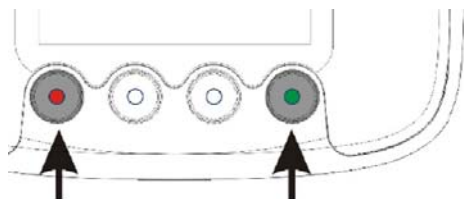

TIP:- If you are scrolling through the pigeons that have arrived at the loft, either from training or on a race day to find a particular pigeon, i.e. your nomination, etc.., and you want to go back to the last pigeon that arrived, then press the **RED** button once.

Additional Menus and Adjustable Settings in the Clock

I would advise that once you are happy with your loft setup then the next stage would be to make out a list of the pigeons you are going to be racing. You will need their life ring numbers, colour and sex and along with your ETS chip rings and G2 clock, arrange with your club Secretary to have your pigeons and rings assigned to your clock.

I will cover the clocks additional settings in this section of the guide, but in order for you to view and change some of the settings you will first need to have assigned your ETS chip rings to the pigeons and transferred them to your clock via the Clubsystem.
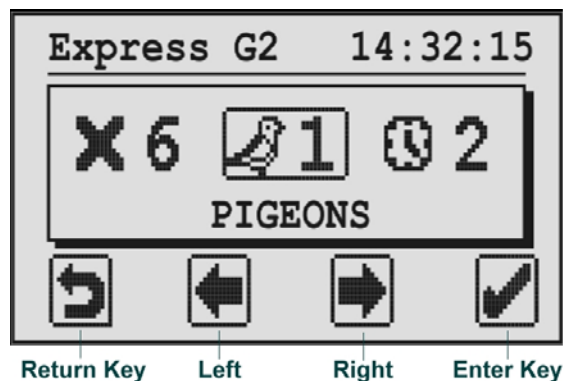

To enter the additional menus and settings press and hold down for 3 seconds both the **RED** button and the **GREEN** button together, at the same time.

Release the buttons when the display changes and when the clock emits a bleep.

On the display you will now see 6 different menus numbering 1 to 6. The selected menu will always appear in the centre of the clocks display with a framed box around it.

You can select and scroll through each menu by using the 2 middle buttons with the arrow icons above them. One button will scroll right and the other button will scroll left.
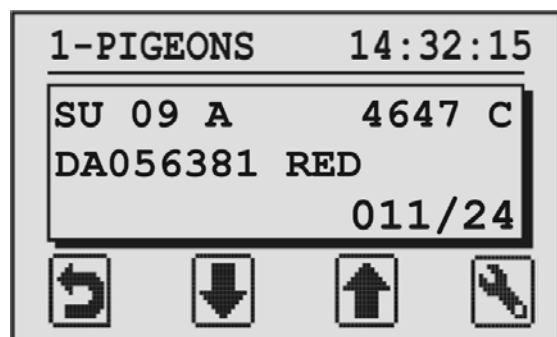

Return Key | Left | Right | Enter Key

The **RED** button with the return icon above it is the return key and pressing this button will return you to the previous display and then finally to the main menu, "No Race / Training"

The **GREEN** button with the tick icon above it is the enter key and pressing this button will open the selected menu.

I will go through each menu so you get an understanding of what you can change.

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 PIGEONS

To view, delete or change the sex of the pigeons that have been assigned and coupled to the clock select menu *"1 - Pigeons"* and press the **GREEN** button once.
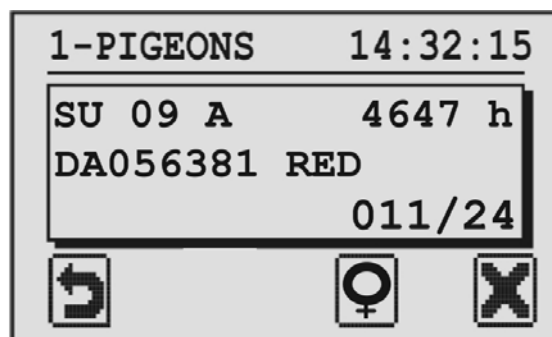

Using the 2 middle buttons with the up and down arrow icons above them you can scroll through and see the information on the pigeons that have been assigned.

The pigeon's life ring registration number will be displayed along with its colour, sex and its ETS chip ring number ID.

On the display it will indicate what pigeon number on the list you are looking at out of how many pigeons are assigned on the clock. i.e., our sample display shows we are looking at pigeon no.11 out of a total of 24 pigeons assigned on the clock.

You can delete any of the pigeons or change their sex from a cock to a hen or via versa, by first scrolling to select the pigeon from the list and then by pressing the **GREEN** button with the spanner icon above it.

If you want to delete this pigeon completely from the clock, then press the **GREEN** button with the X icon above it.

You will be asked to confirm that you want to delete this pigeon. If you are sure you want to go ahead and do this, then press the **GREEN** button which will now have a tick above it. The pigeon will be permanently deleted from the clock.

Note:- Please be aware that this function deletes the pigeon and not the ETS chip ring from the clock. If you need to re-register an ETS chip ring, either from one pigeon to another pigeon or to give it a new chip ring it can only be done through the Clubsystem.

If you change your mind and you do not want to delete the pigeon then press the **RED** button to return to the list of pigeons.

With young birds at the start of the racing season it is sometimes difficult to sex the pigeon, and during the season you may want to change it. To change the sex of the pigeon press the button next to the green button with the gender icon above it. On the display you will see it changing from h to c or from c to h. when you have made your selection press the **RED** button to return to the list of pigeons.
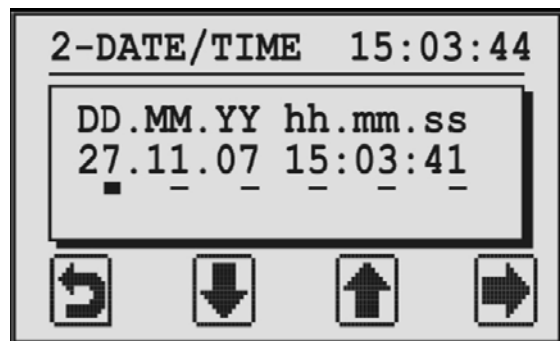
To exit from *"1 - Pigeons"* and return back to the menus 1 to 6 press the **RED** button
If you want to return to the main menu "No Race/Training ", press the **RED** button again.

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⏱ 2 DATE / TIME

When your clock is setup for the first time with the Clubsystem or when you use your clock on the first basketing night before a race your clocks date and time will be automatically synchronised to the correct date and time with the Clubsystem.

Should for some reason you want to manually change the date and time on the clock select menu *"2 – Date/Time"* and press the **GREEN** button once.

Pressing the **GREEN** button with the arrow icon above it pointing to the right will move the curser to select the day, month, year, hour, min, and sec.

To change the numbers to the desired setting use the 2 middle buttons with the arrow icons pointing up or down. This will increase or decrease the value of the number.

When you have completed your changes move the cursor another position to the right. The display will change and show a tick icon above the green button now. Press the **GREEN** button to save the new date and time settings to the clock.

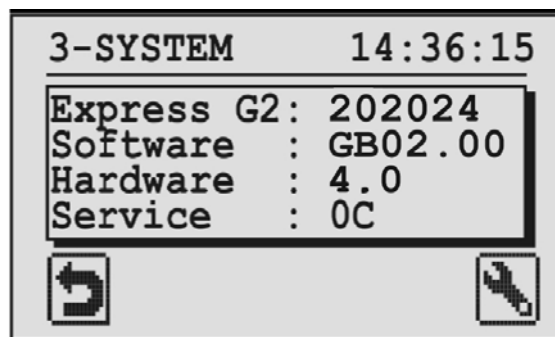If you want to cancel without saving at anytime press the **RED** button

To exit from *"2 - Date/Time"* and return back to the menus 1 to 6 press the **RED** button
If you want to return to the main menu "No Race/Training", press the **RED** button again.
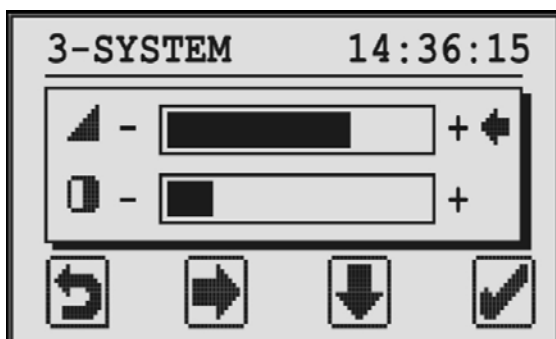
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⚙ 3 SYSTEM

To view the clocks serial number, software, hardware version information and to adjust the volume of the bleeper / sounder, or if you need to change the brightness of the LCD display, then select menu *"3 – System"* and press the **GREEN** button once.

```
3-SYSTEM          14:36:15
┌─────────────────────────┐
│Express G2: 202024       │
│Software  : GB02.00      │
│Hardware  : 4.0          │
│Service   : 0C           │
└─────────────────────────┘
 ↰                      ⚙
```

The relevant clock system information will be displayed. The serial number of the clock is written on the label at the back of the clock. The software version is shown when you power the clock up, under the Benzing logo.

To change the volume of the bleeper or to alter the brightness of the LCD display press the **GREEN** button with the spanner icon above it

```
3-SYSTEM          14:36:15
┌─────────────────────────┐
│ ◢ - ████████     + ◀    │
│ ◻ - ██           +      │
└─────────────────────────┘
 ↰      ➡      ⬇      ✔
```

The bleeper volume adjustment is on the top bar and the LCD brightness is on the bottom bar. Use the button next to the green button with the arrow icon above it pointing down the way to select the volume or the brightness.

By pressing the button next to the red button with the arrow icon pointing to the right adjust to increase the volume of the bleeper or the brightness of the display. You will hear the volume changing with every press of the button and you will see the brightness changing on the display. When you reach the end of the bar, the next press of the button will start it from the beginning again. Once you have made your selection press the **GREEN** button to save the changes.

If you want to cancel without saving at anytime press the **RED** button

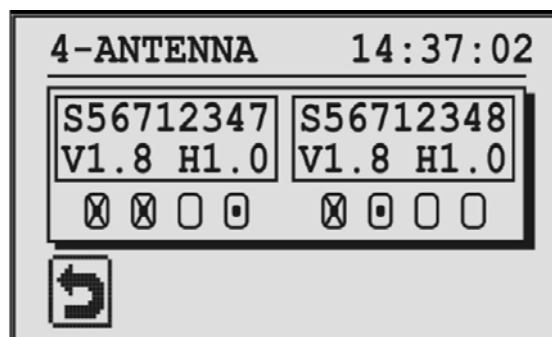To exit from *"3 - System"* and return back to the menus 1 to 6 press the **RED** button
If you want to return to the main menu "No Race/Training", press the **RED** button again.

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⟨ᵢ⟩ 4 ANTENNA

For the information about your antenna controllers and to check that your antenna pads are working correctly select menu *"4 – Antenna"* and press the **GREEN** button once.

The software and hardware information about the antenna controllers will be shown on the display. Below this you will see the antennas that are connected to the controllers indicated by a dot inside a framed box.

When you scan a Benzing pro chip ring across the pad and it registers the dot will change to an **X** and you will here a bleep.
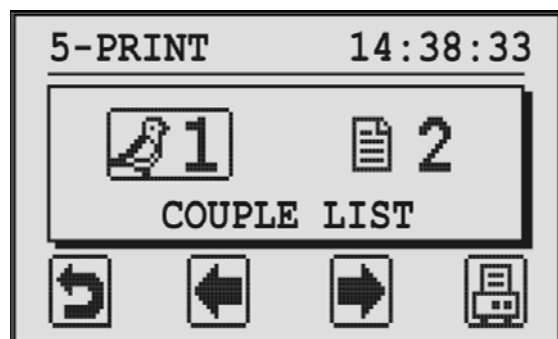
```
4-ANTENNA        14:37:02
┌─────────┐ ┌─────────┐
│S56712347│ │S56712348│
│V1.8 H1.0│ │V1.8 H1.0│
└─────────┘ └─────────┘
 ⊠ ⊠ ☐ ▣     ⊠ ▣ ☐ ☐
↩
```

To exit from *"4 - Antenna"* and return back to the menus 1 to 6 press the **RED** button
If you want to return to the main menu "No Race/Training", press the **RED** button again.

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🖳 5 PRINT

With the "Print Manager" software program installed on a computer, (this can be found on the Benzing utility disc), the fancier can print their arrivals. This is only possible however for those customers that have either purchased a, G2 battery back up docking station or a G2 data cable. Select menu *"5 – Print"* and press the **GREEN** button once.

```
5-PRINT          14:38:33
┌─────────────────────────┐
│  🐦1        📄 2        │
│                         │
│     COUPLE  LIST        │
└─────────────────────────┘
 ↩    ◄    ►    🖳
```

You can print out the pigeon arrivals list, either from a training flight or from a race. If required you can also print out the couple list, i.e. the pigeons that have been stored on the clock and assigned with ETS chip rings.

Using the 2 middle buttons with the arrow icons pointing right and left select from the couple list or the arrivals list, 1 or 2.
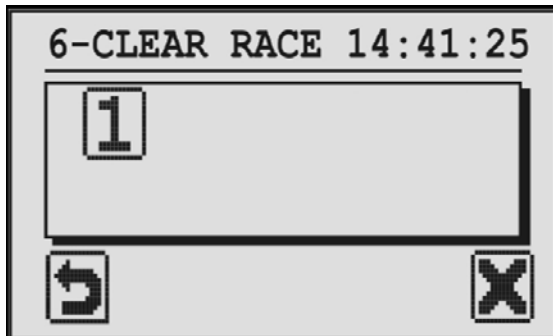
Press the **GREEN** button with the printer icon above it, to send the information to the printer software "Print Manager" program, which must be open on the computer.

To exit from *"5 - Printer"* and return back to the menus 1 to 6 press the **RED** button
If you want to return to the main menu "No Race/Training", press the **RED** button again.

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✕6 CLEAR RACE

After the race has finished and your clock has been evaluated it is necessary to clear the pigeons that were sent to that race from the clock. This allows the pigeons to be basketed again for the next race. You may find that your club has already cleared the pigeons for you after they evaluated the race but in the event that they didn't you can do so yourself. Select menu *"6 – Clear Race"* and press the **GREEN** button once.

```
6-CLEAR RACE 14:41:25

    1

  ↩                    ✕
```

On the display it will show you the race or races that have been evaluated and that can now be cleared from the clock.

If there is more than one race to choose from then select the race you want to clear using the 2 middle buttons. A framed box around the number shown on the display will indicate your selection.

Press and hold down the **GREEN** button with the **X** icon above it until the display returns to the menus 1 to 6. Race has now been cleared.

Note:- You can only clear a race after the clock has been rung off and evaluated through the Clubsystem. You cannot clear a race that is still active.

To return to the main menu "No Race/Training", press the **RED** button.

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Well done you are now all setup and ready to start using your G2 Clock.

All you need to do when operating the clock in the Loft

Training the Pigeons
1. Connect the clock in the loft and switch on the power.
2. Hold the **GREEN** button for 3 seconds "Training Active"
3. Take the pigeons away and the birds will be timed on arrival.
4. After returning, scroll through and view the pigeons that have arrived.
5. To print out the arrivals, connect the clock to the computer and print.
6. To clear training, press the **RED** button for 3 seconds, "No Race Training"

On a Race Day
1. Connect the clock in the loft and switch on the power.
2. Clock will display "Race Active" and be ready to receive pigeons.
3. Scroll through and view the pigeons that have arrived or print out if required.
4. When finished timing pigeons, unplug the clock and return it to the marking station.

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Most commonly asked questions about the G2 and operating in the loft.

1   **Q.** If I mount my 2 pads side by side how far apart can I place them before it stops picking up the rings?

A. I would advise that you place the pads as close together as possible but do not overlap them. The pad will pick up the chip rings up to 4 inches above it and 1 inch around the edge. Leaving too big a gap between the pads may result in missing the pigeons. Best idea is to experiment with the pads range with a chip ring during the installation in the loft, before finally satisfying yourself.

2   **Q.** What happens if I get 2 or 3 pigeons landing on the same pad together?

A. This would be physically impossible. The pad is 6 inches by 5 inches and is a one field antenna pad, meaning a one pigeon pad. The idea is that the pigeon walks over the pad and then flies or walks into the loft. If you get three pigeons together and you have one hole for them to go through then they will need to go in behind one another. Only one ring can be picked up on one pad at a time, one must leave the pad before the other is then picked up.

3   **Q.** Can I put the pads on the landing board as long as it has got a canopy over it?

A. NO. In the UK all antenna pads must be within the confines of the loft, this means inside the trapping area and NO not at the base of the stall trap, YES on the other side of the bob wires. The pigeon must be in the loft before it is timed. I would strongly advise you ask you club official to guide you if you are in any doubt and to inspect your setup prior to racing. Read your Union / Federation and Club ruling on ETS loft installations.

4   **Q.** What happens if I time in 2 pigeons at exactly the same time?

A. The pigeon that shows first on the clock and on the print out is always the first pigeon that was timed. Although the time will be the same and the velocity will be the same the clock will determine in milliseconds or microseconds what pigeon arrived first. On the evaluation print out sheet you will probably see for example:- **10 : 21 : 31 .9** and **10 : 21 : 31 .8** , This extra digit after the seconds will indicate the difference in time between the two pigeons. DO NOT use this digit when calculating the pigeon velocity this digit is disregarded. Velocities can only be calculated using hours, minutes and seconds, both these pigeons have exactly the same velocity.

5   **Q.** Can I take a chip ring off a pigeon and put it on to another one?

A. Yes you can, however in your clock the ETS ring is still assigned to the original pigeon. You need to re-assign the ETS chip ring to the new pigeon and you can only do that through the Clubsystem. It is not a good idea to do this during a racing season, but if you must then speak with your clubs ETS official.

6   **Q.** Are there batteries inside the clock that I need to replace?

A. No there are no batteries inside the clock that need replaced. There is a small memory battery which stores the fancier information. This will last for 10 years and longer. If this battery requires replacing it will, periodically flash up on the display, "Service". Only Benzing or its agents can replace this for you.

7   **Q.** I don't have any power at the loft can I use a 12v car battery?

A. Yes, any 12v 500mA or higher current battery will be fine, a car or motorbike battery, a small golf caddie battery, or 12v sealed rechargeable alarm backup battery are all suitable to use in the loft. However make sure it is charged up before using it. An adaptor cable for connecting the G2 system to a battery is available from our website shop.

8   **Q.** What happens if there is a power cut and I am waiting on pigeons?

A. You can either have a charged battery at hand with a suitable cable fitted ready to change over to or you can purchase a battery docking station for the G2 clock which will instantly kick in and supply up to 6 hours of battery power in the event of a power cut. You can purchase one here:- Battery Docking Station

9   **Q.** If I take the G2 clock out of the loft to go to the marking station, will the pads continue to time my pigeons arriving at the loft?

A. No, not unless you have an INN, 2nd clock connected in the loft. The INN is a continuous timing system, 2nd clock designed for the G2 clock. It connects into the controller unit and when the G2 is taken out of the loft to go to the marking centre, then the INN, 2nd clock takes over and continues to time the pigeons arriving at the loft. When you return from the marking centre and plug the G2 clock back in, it will update the clock with the new arrivals. This is ideal when you are at 2 or 3 races on the same day or for the longer distance National racing. The INN is available to purchase from here:- Continuous Timing System

10   **Q.** Can I accidently clear a race on race day after I time in pigeons?

A. No, you cannot clear a race that is active accidently or even if you tried to. You can only clear the race after the clock has been evaluated through the Clubsystem. You can clear any training that you are doing if you wish, as you can still go training and time training pigeons in, even while a race is active.

Setting up and using the G2 clock with your Computer.
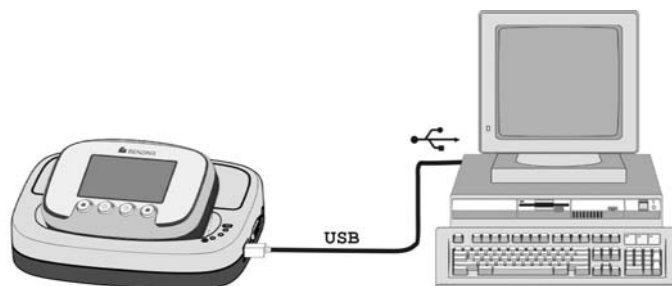
Connecting the G2 Clock to your PC

Fanciers can connect their G2 clock to a computer that is connected to the internet and download from the Benzing server with the "G2 Download" program installed on their PC the latest version of software to keep their clock updated.

Connecting the clock to the computer also enables the fancier using the "Print Manager" program installed on the computer to print out and keep a record of the arrivals of the pigeons to the loft from their training flights.

Benzing have two products available that enables the clock to be connected to the computer, either with using the G2 battery back up docking station or the G2 data cable. Either of these products can be purchased here:- Docking Station and Data Cable
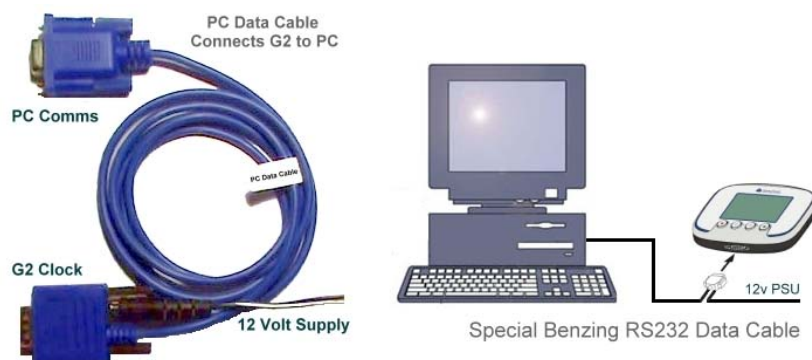
Battery Docking Station

The main function of the G2 battery docking station is to keep the G2 clock powered up in the event of a power failure at the loft on race day or to power the ETS system in the loft where there is no power. The docking station also has a USB output connection and is supplied with a lead which can be connected into the USB port of the computer.

Data Cable

The Benzing specially adapted RS232 data cable with the built in power supply socket can also be used to power and connect the G2 clock to a computer. The clock is powered by connecting the 12v PSU jack plug into the top of the 9 pin plug.

Note:- In order to connect this cable to a computer or a laptop that only has a USB port then you will need to purchase a USB to Serial adaptor cable if you don't have one already. This adaptor fits into the 9 pin socket of the data cable and coverts it to a USB.

Installing the software programs on your PC

There are two software programs you will need to install on your computer if you want to keep your clock updated with the latest software and if you want to print off your training flights arrivals or ring couple list.
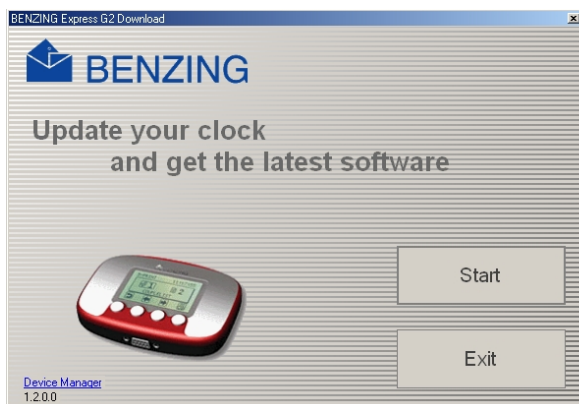
These programs can be found on the utility disc supplied with your clock, but to ensure that you have the very latest versions of these programs and for any other Benzing software programs you can find and install them direct from the Benzing Website.

You can also download the latest versions and install them from us at Homing Pigeons.

1. Software for updating your G2 clock - Benzing Express G2 Download Program

2. Software for printing your training flight arrivals – Printer Manager Software

How to update your G2 clock with the latest version of software

Connect the G2 clock to the computer via the data cable or the docking station and power up the clock. The G2 will show on the display "No Race / Training". Open the software program "Benzing Express G2 Download" that you installed on your computer by clicking on the icon from the desktop.

Ensure your computer is connected to the internet and then click the "Start" button on the software program.
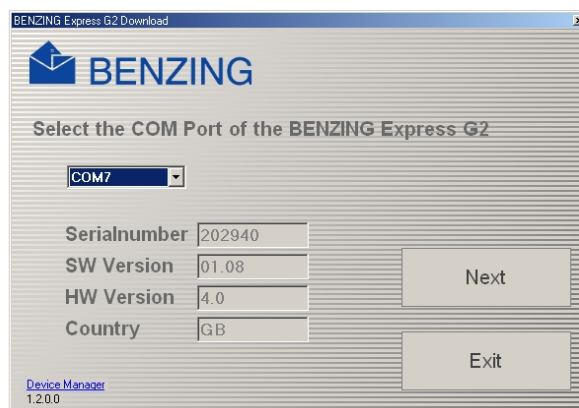
The program will then make a connection to the Benzing server and download the latest G2 software into the download program.
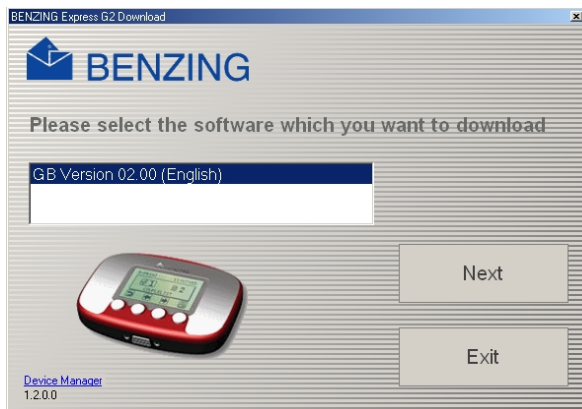
When this task has been completed click the "Next" button on the software program.

Select the COMM port that the G2 clock is connected to from the selection dropdown box menu and then click "Next" on the software program.

The serial number of the clock and software version will appear when the clock has successfully connected to the program.

Click "Next" on the software program

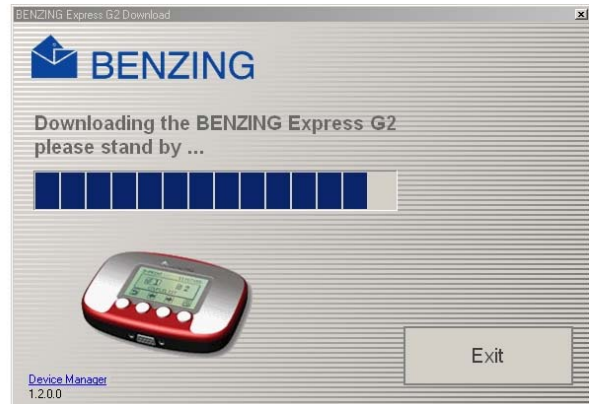The latest version of the G2 software for the clock will then appear in the selection box.

Highlight with the mouse pointer the version of the software that you want to download onto the G2 clock. Then click the Next" button on the software program to start the download process to the G2.

The G2 clock will display "Software Update in Progress" and then show a blank screen.

The software program on the computer when it has finished installing the new download to the G2 will say "Successfully Downloaded the Benzing Express G2".

The G2 clock will automatically reboot itself and start up again when it has successfully received the new updated software.

Process is complete you can now "Exit" the download program or update another G2.
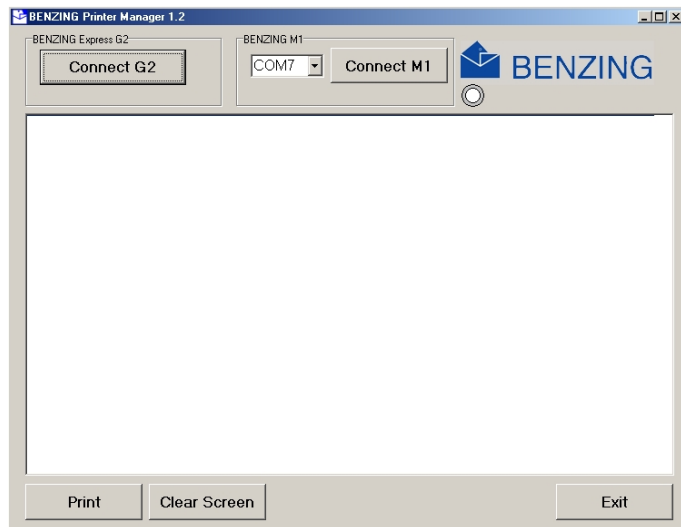
Not all G2 clock updates are necessary. Updates are either for cosmetic changes, new product introductions or Union ETS rule changes. You will find more details on the latest software versions and the reason for these changes on the Homing Pigeons Forum.

How to get a printout of the pigeon training flights from the G2 clock
When you are training the pigeons and you then want to printout a copy of the pigeon arrivals for your records, follow the procedure as you would normally do when training but this time don't clear the training record from the clock until you get your printout.

Training the Pigeons
1. Connect the clock in the loft and switch on the power.
2. Hold the **GREEN** button for 3 seconds "Training Active"
3. Take the pigeons away and the birds will be timed on arrival.
4. After returning, scroll through and view the pigeons that have arrived.
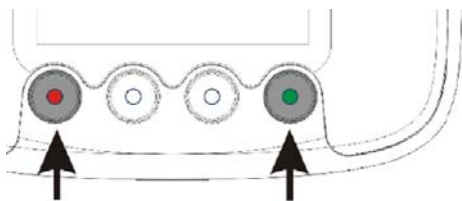5. To print out the arrivals, connect the clock to the computer.

Connect the clock to the computer via the data cable or the docking station and power up the clock. The G2 clock will boot up and show on the display the training arrivals.

Open the software program "Benzing Printer Manager" that you installed on your computer by clicking on the icon from the desktop.

Click on the "Connect G2" button. It will then show you that it has connected and on what port number.

Next go to the "Print" function on the clock. This can be found in the additional menus.
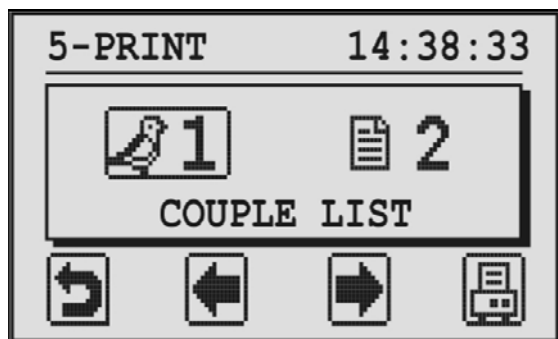

To enter the additional menus and settings press and hold down for 3 seconds both the **RED** button and the **GREEN** button together, at the same time.

Release the buttons when the display changes and when the clock emits a bleep.

 PRINT

Select menu *"5 – Print"* and press the **GREEN** button once.

You can print out the pigeon arrivals list, either from a training flight or from a race. If required you can also print out the couple list, i.e. the pigeons that have been stored on the clock and assigned with ETS chip rings.
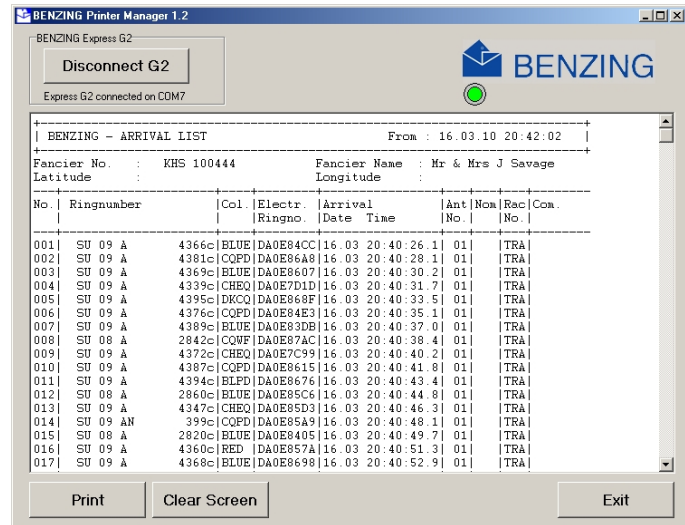
Using the 2 middle buttons with the arrow icons pointing right and left select from the couple list or the arrivals list, 1 or 2.

Press the **GREEN** button with the printer icon above it, to send the training arrivals information to the printer software "Print Manager" program open on the computer.

The pigeon arrival list detailing the ring number of the pigeons and their arrival times will be transferred from the clock to the "Printer Manager" program.

Click on the "Print" button on the software program to send this arrival information to the printer connected to your computer. Click "Print" again for more copies.

If required, you can clear the screen and send the couple list that is stored in the clock to the "Printer Manager"

When you are finished printing click on the "Disconnect G2" button on the software program and then click on "Exit" to close the program.

On the G2 clock, to exit from *"5 - Printer"* and return back to the menus 1 to 6 press the **RED** button once and to return to the main clock menu press the **RED** button again.

The pigeon training arrivals can now be cleared from the clock to do this, press the **RED** button and hold for 3 seconds until the display changes to, "No Race / Training".

Most commonly asked questions about connecting the G2 to the computer.

1   Q. How often do I need to update my G2 clock and can I do this during the racing season, or do I have to wait until the end of the season?

A. It does no harm to periodically check using the "Download Program" for a newer version of software for your G2 and if there is one available, install it by all means. Should there be any new software updates for Benzing clocks or other Benzing products then they will be posted on the Homing Pigeons Forum when they become available and the reason why. Most software updates are cosmetic to enhance the clock features & functions or for the introduction of any new add on products. From time to time however Pigeon Organisations / Unions make changes to their ETS rulings and the clock manufactures have to accommodate for these changes. Updates to your clock can be carried out at anytime, but it is best to do this just prior to the new season starting. Playing around with updating the software on clocks during the racing season is not always a good idea.

Some Unions specify the minimum software version you will need to have installed on your clock, prior to the racing season. Check this out with your own Union / Organisation or club secretary if you are in doubt.

2   **Q.** What if I need a software update for my clock and I don't have a computer?

A. First ask your club secretary or any other member you know locally who has a Benzing G2 clock and see if they can do the update for you. If not then contact the dealer you purchased the clock from and arrange to send the clock back to them to be updated. You will however need to cover the cost of the postage and insurance for doing it this way. The other option is to wait until we or any of the other dealers are attending an exhibition or event and bring your clock along.

3   **Q.** When I send the training arrivals information to the printer can I save this file?

A. No, this is currently not possible to do. For security reasons you cannot store or be allowed to edit pigeon arrival information, either from training flights or from an active race on the software program. You can only send, read or print the information. Benzing will be at some time in the future, developing a software package that will allow the fancier to upload the arrivals and view the pigeon performances and results over the season.

4   **Q.** If I printout the race arrivals before going to the marking station will this mean I have then evaluated / closed the race and lose the pigeon arrivals in the clock?

A. No absolutely not. Race arrivals cannot be cleared from the clock unless the clock has first been evaluated through the club system. The printout from the software program is only a list of your arrivals to the loft that have been stored on your clock. This printout cannot be used for race results either because it will show no clock setting, ring on time, clock opening ring off time or any race information needed to calculate the pigeon velocities. The printout from your computer is only for your own personal records.