
Test 'n' Tag Label Printing System

Instruction Manual



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Test `n' Tag

Label Printing System

Instruction Manual

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Before Starting

1. Check that all the component parts are present: -
 - Portable Printer
 - AC Adaptor
 - Printer Lead
 - Supply Cartridge
 - Peel Stick
 - Peel Stick Instruction sheet
 - Instruction Manual (with Warranty Card)
 - PATGuard 2 evaluation disc
 - Download Lead
2. Read the operating instructions fully before using the Test 'N' Tag system.
3. Contact Seaward Electronic if you need information on training for Portable Appliance Testing.
4. Data may be lost or altered in virtually any electronic memory under certain circumstances. Therefore Seaward Electronic assumes no responsibility for financial losses or claims due to data lost or otherwise rendered unusable whether as a result of abuse, improper use, defects, disregard of operating instructions or procedures, or any other allied causes.
5. Seaward Electronic Limited can be contacted at:

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1. Introduction

Test 'N' Tag is the label printing system exclusive to the Seaward Group. It enables users of Seaward and Rigel testers to print thermal transfer labels directly to the Test 'N' Tag portable printer.

Note

The Test 'N' Tag system can be used with a range of Seaward and Rigel test equipment including:-

Seaward SuperNova

Seaward Europa

Seaward PrimeTest 300 and 350

Rigel 288

.. and others...

The industrial vinyl labels created by the Test 'N' Tag printer are scuff proof, water proof, tamper proof and unlike direct thermal labels, the print will not fade in sunlight.

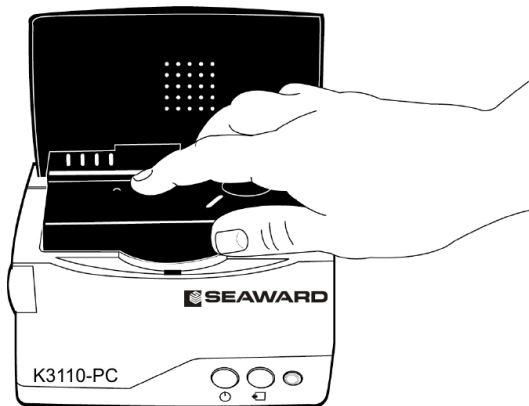
Two types of label can be printed; a panel label - to attach direct to the appliance panel, a cable wrap label - to wrap around the power cord.

Note:

The PatGuard 2 evaluation disc also contains the logo transfer program for SuperNova / Europa testers. The DataTransfer.exe program for Handheld testers is supplied with the tester itself.

2. Installing the Supply Cartridge

1. Lift the unit's dust cover.
2. Make sure the locking spindle is in the counter-clockwise (unlocked) position.
3. On the bottom of the cartridge, turn the ribbon advance one full turn counter clockwise (follow arrows on cartridge) or until any slack in the ribbon is removed. **THIS IS VERY IMPORTANT.**
4. Load the supply into the printer making sure the cartridge is properly seated.
5. Turn the locking spindle one-quarter turn clockwise to lock the cartridge into place.



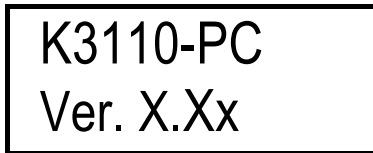
3. Printing a Test Label

Connect the supplied AC adapter to the back of the Printer.
Connect the AC Adapter to the power outlet.

Note

Each of the Printer AC Adapters is unique to, and will only operate with the appropriate K3000-PC / K3110-PC Printer. They are NOT interchangeable, misuse will cause damage to the printer and/or adapter.

1. Press the POWER button to turn the unit off. The power light LED will go out.
2. Press and hold down the FEED button, then press the POWER button to turn the unit's power back on. The unit will print a test label similar to the one shown below.



3. Examine the test label. The printing should be dark and uniform with no distortion. If the self-test results differ markedly from those expected, refer to the troubleshooting section of this document.

4. Printing Labels (PrimeTest / Rigel)

Note

This section should be read with reference to the tester's Instruction Manual

The Test'n'Tag printer can be used with the following handheld test instruments:-

Primetest 300, Primetest 350, Rigel 288, Rigel 388

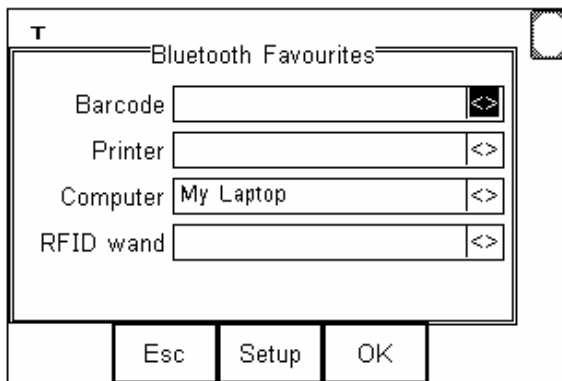
In this case the printer must be used together with the bluetooth adapter (part number 342A914)

Labels can be printed either at the end of a test or at any other time from test results stored in the memory.

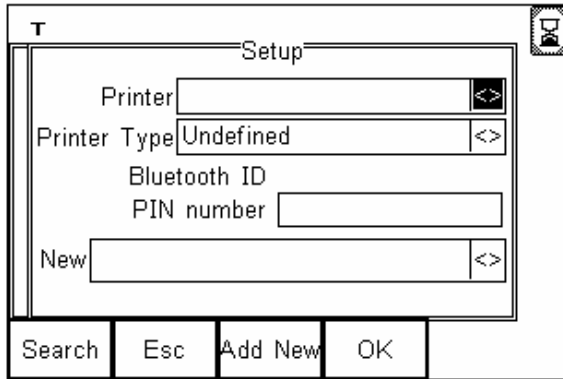
Bluetooth Favourites

Before use, the bluetooth adapter needs to be paired with the tester.

The following shows how to add a Printer to Bluetooth Favourites.



Use the up/down arrow keys to highlight the device type (in this case Printer) then press **Setup** (F3).



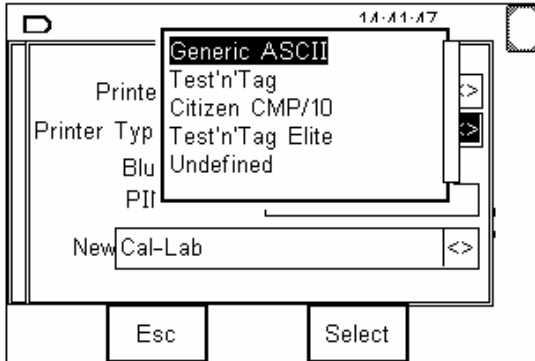
If your printer is not already in the “New” list then you need to search for it now by pressing **Search** (F1).

Note:

If the required Test'n'Tag adapter is not shown, check that it is powered on then repeat the search.

Use the arrow keys to highlight the required device and press **Select** (F4). The TnT adapter is now placed in the “New” field. Press **Add New** (F3) and this will transfer the newly found device into the printer list.

Now you need to specify what type of printer this device is. Use the up/down arrow keys to highlight the Printer Type, then press the Right arrow key to bring up the list of available printers.



Highlight **Test'n'Tag** and press **Select** (F4)
 Press **OK** (F4) to return to the previous screen.

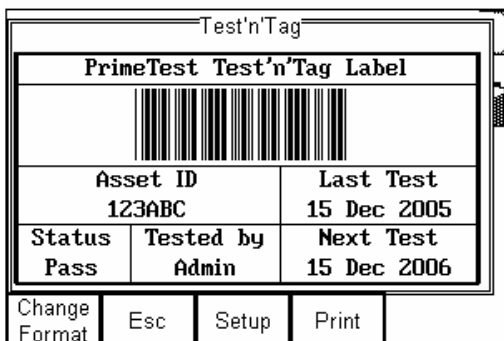
Note:

Not all the printer types show above will be in your list. The tester is undergoing continuous development and some printer types may be added or deleted as necessary .

Printing labels

Labels can be printed either from the ViewData screen or at the end of the test. Select the menu option **Print Label**.

When selected, the image that will be transferred to the Test 'n' Tag label will be shown on the display.



Note:

The maximum number of characters that can be displayed in a Test 'n' Tag barcode is 12. If this limit is exceeded, the barcode will not appear on the display and will not be printed on the label.

A number of pre-configured label formats are available. Pressing **Change Format (F1)** will cycle through the available formats.

The appearance of the Test 'n' Tag labels can be altered by pressing **Setup (F3)**.

Test'n'Tag Setup	
PrimeTest Test'n'Tag Label	
User Defined Logo	Yes <>
Pre Feed	0.25
Post Feed	1.50
Print Density	3
Label Size	User Defined <>
Printer	SELPC033 <>
Esc OK	

The text in the banner line can be edited to show up to 29 chosen characters.

You can turn the logo on or off from this screen.

Note:

The default Pre Feed and Post Feed values are 0.25" and 1.50" respectively. You can change these values as necessary, or simply use the "Label Size" field to select "Cable Wrap / Panel" which will give preferred values.

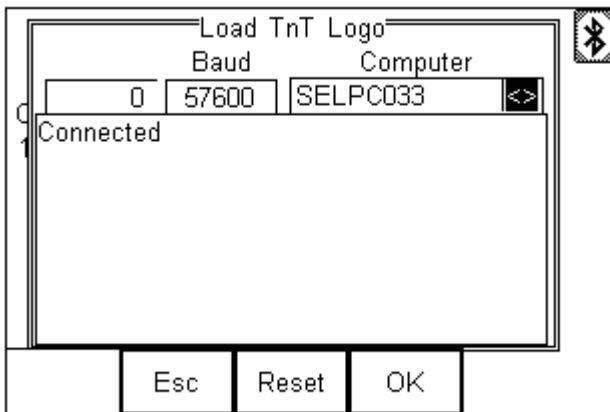
Load Test'n'Tag Logo

A bitmap logo can be transferred to the PrimeTest for use with the Seaward Test 'n' Tag print system.

The logo must be monochrome in .BMP format with a maximum size of 320 pixels by 240 pixels.

Press **Menu** (F4), select **Data Transfer** using the arrow keys, select **load T 'n' T logo** and press **OK** (F4).

The PrimeTest will now attempt to connect to the **Bluetooth Favourite** PC. When a connection has been established the display will be as shown below.

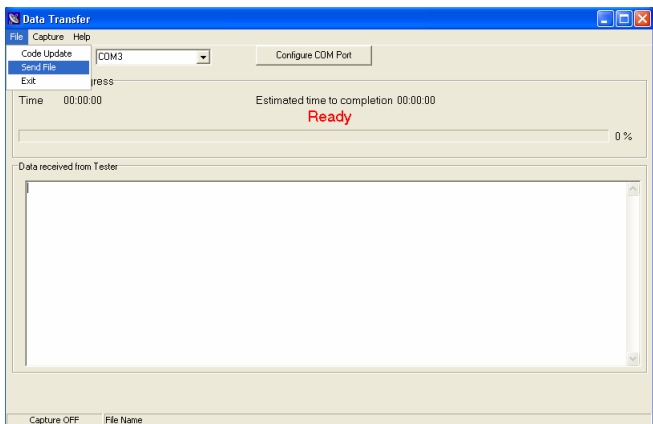


Note:

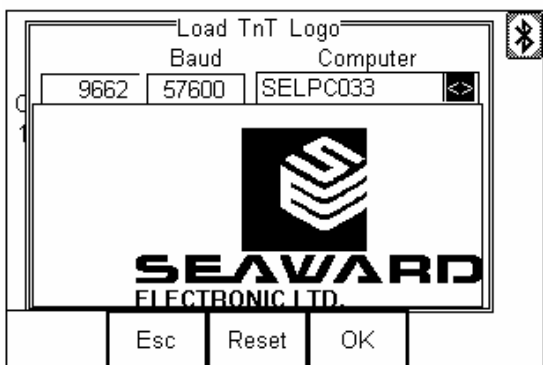
If you are using a Primetest 350 with an RS-232 port, then make sure that the "Computer" field is set correctly. Use the left / right arrow keys to set for "RS-232" or "<your computer>" as desired.

The PrimeTest is now ready to receive data. The amount of data received is shown numerically on the top left of the display (0 in the screen shot above).

On the PC start the DataTransfer.exe program and set for the correct com port. From the File menu, select "Send File". Navigate to the desired logo file and click on "Open".



The file will be transferred to the tester. On the tester screen you will see the amount of data received (shown on the top left of the display). This value will count up as the data is received. A typical logo will be no more than 9700 bytes.
When all the data has been received, the tester will display as much of the logo as it can.



If the correct logo is not displayed, then the Reset button (F3) can be used to clear the screen. You can then send a different logo.

If the logo is correct, then press OK to save the logo. This logo will be saved even if the tester is turned off.

Note:

You can turn the logo on / off from the printer set up screen without having to delete it.

5. Printing Labels (Supernova / Europa)

Note

This section should be read with reference to the tester's Instruction Manual

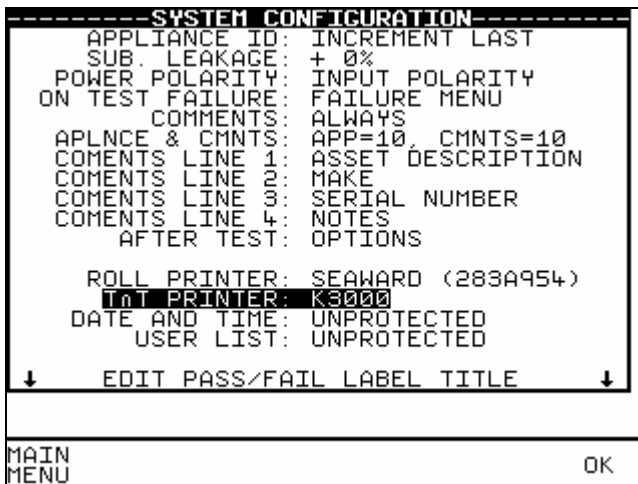
Labels can be printed either at the end of test or at any other time from test results stored in the memory.

Note

When printing labels from a newly installed Supply Cartridge the first label to be printed will not have a logo – even if a logo has been added to the label (see section “Adding a Logo to the Label”).

Note

There is an option in the System Configuration, Apnlnc & Cmnts, which allows the Appliance ID length to be limited to 10 digits, it is recommended that this option be set. Appliance ID's which are greater than 12 digits in length will not produce barcodes on the Test 'n' Tag printout.

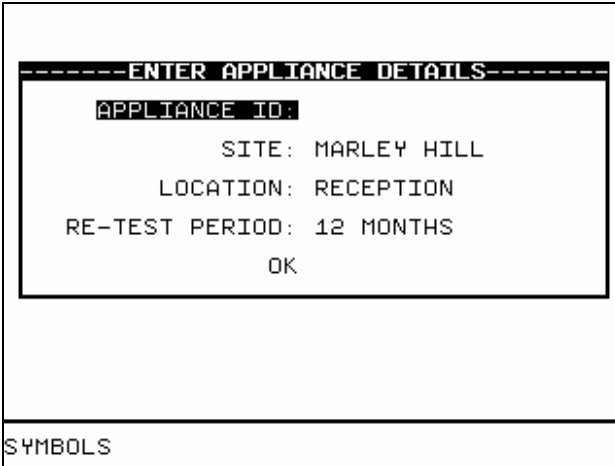


Set the TnT PRINTER configuration to “K3110”

With the Printer powered on (Green Light illuminated) through its AC Adaptor, connect the Printer Lead RJ12 connector into the Printer and the serial connector into the serial port of the tester.

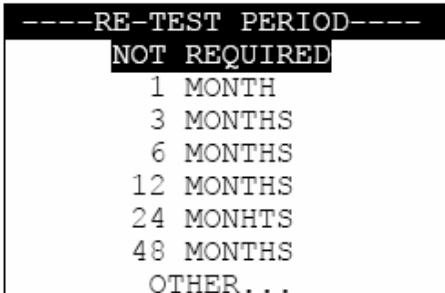
Re -Test Period

As the labels require a Next Test due, re-test period will now need to be defined at the start of the test. On selecting NEW TEST or entering CREATE APPLIANCE in MANUAL MODE this screen appears:



```
-----ENTER APPLIANCE DETAILS-----
APPLIANCE ID:
      SITE: MARLEY HILL
      LOCATION: RECEPTION
RE-TEST PERIOD: 12 MONTHS
      OK
SYMBOLS
```

Use the cursor keys to select RE-TEST PERIOD and then press the ENTER key to choose a re-test period.



```
-----RE-TEST PERIOD-----
  NOT REQUIRED
    1 MONTH
    3 MONTHS
    6 MONTHS
   12 MONTHS
   24 MONHTS
   48 MONTHS
   OTHER...
```

Complete the rest of ENTER APPLIANCE DETAILS as normal (refer to your Tester Manual) and move on to the next stage in the test process.

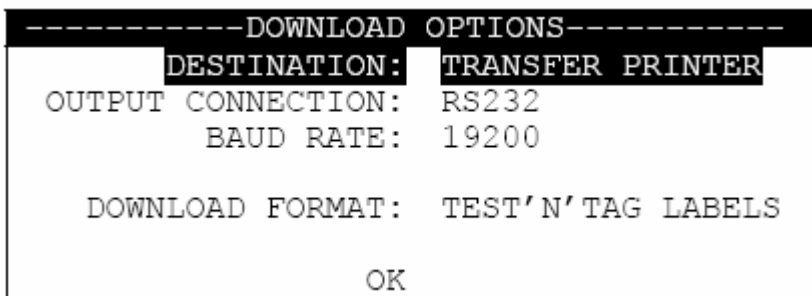
Note for PATGuard Program Users

Re-test periods are downloaded with test results and are compared with re-test periods of existing Assets already in your PATGuard program or used as the re-test period for new Assets. This is to ensure that re-test periods are 'synchronized' across the PAT system.

Asset Upload from PATGuard Plus will also include the re-test period.

Download to Transfer Printer

To print labels from the DOWNLOAD RESULTS menu make the following selection:



Select the fast key OK.


If DOWNLOAD TEST RESULTS was selected from the MAIN MENU then use SEARCH FOR DOWNLOAD DATA screen as normal (see Tester Instruction Manual) to select the required data.

If DOWNLOAD TEST RESULTS was selected from OPTIONS at the end of a test no SEARCH FOR DOWNLOAD DATA appears as it is will download the test just completed.

In both cases the following screen will be displayed next if the test passed:

SEAHARD TEST 'N' TAG LABEL									
									
Asset ID: 2002		Last Test: 28/03/2006							
Status: PASS	Tested By: AUSTIND	Next Test: 28/03/2007							
<table border="1"> <thead> <tr> <th>TEST 'N' TAG LABEL OPTIONS-</th> </tr> </thead> <tbody> <tr> <td>PRINT AS PANEL LABEL</td> </tr> <tr> <td>PRINT AS CABLE WRAP LABEL</td> </tr> <tr> <td>LABEL IS NOT REQUIRED</td> </tr> <tr> <td> </td> </tr> <tr> <td>CHANGE LABEL FORMAT</td> </tr> <tr> <td>PRINT DENSITY (60%)</td> </tr> </tbody> </table>			TEST 'N' TAG LABEL OPTIONS-	PRINT AS PANEL LABEL	PRINT AS CABLE WRAP LABEL	LABEL IS NOT REQUIRED		CHANGE LABEL FORMAT	PRINT DENSITY (60%)
TEST 'N' TAG LABEL OPTIONS-									
PRINT AS PANEL LABEL									
PRINT AS CABLE WRAP LABEL									
LABEL IS NOT REQUIRED									
CHANGE LABEL FORMAT									
PRINT DENSITY (60%)									
NOT REQD	CABLE WRAP	PANEL LABEL							

A failed test will be displayed as follows:

SEAHARD TEST 'N' TAG LABEL									
									
Asset ID: BD DRILL		Last Test: 06/04/2006							
Status: FAIL	Tested By: FRED	XXXXXXXXXX							
<table border="1"> <thead> <tr> <th>TEST 'N' TAG LABEL OPTIONS-</th> </tr> </thead> <tbody> <tr> <td>PRINT AS PANEL LABEL</td> </tr> <tr> <td>PRINT AS CABLE WRAP LABEL</td> </tr> <tr> <td>LABEL IS NOT REQUIRED</td> </tr> <tr> <td> </td> </tr> <tr> <td>CHANGE LABEL FORMAT</td> </tr> <tr> <td>PRINT DENSITY (60%)</td> </tr> </tbody> </table>			TEST 'N' TAG LABEL OPTIONS-	PRINT AS PANEL LABEL	PRINT AS CABLE WRAP LABEL	LABEL IS NOT REQUIRED		CHANGE LABEL FORMAT	PRINT DENSITY (60%)
TEST 'N' TAG LABEL OPTIONS-									
PRINT AS PANEL LABEL									
PRINT AS CABLE WRAP LABEL									
LABEL IS NOT REQUIRED									
CHANGE LABEL FORMAT									
PRINT DENSITY (60%)									
NOT REQD	CABLE WRAP	PANEL LABEL							

If you highlight CHANGE LABEL FORMAT and press the Enter key, then a variety of different label formats will be displayed.

Use the cursor keys to choose a print option. A PANEL LABEL is for attaching directly to the Appliance. A CABLE WRAP LABEL is larger and is wrapped around the power cord.

If no label is to be printed select LABEL IS NOT REQUIRED.

If more than one label is to be printed the above screens will be displayed prior to printing each label. This is necessary as each label is required to be cut from the Printer before the next label is printed.

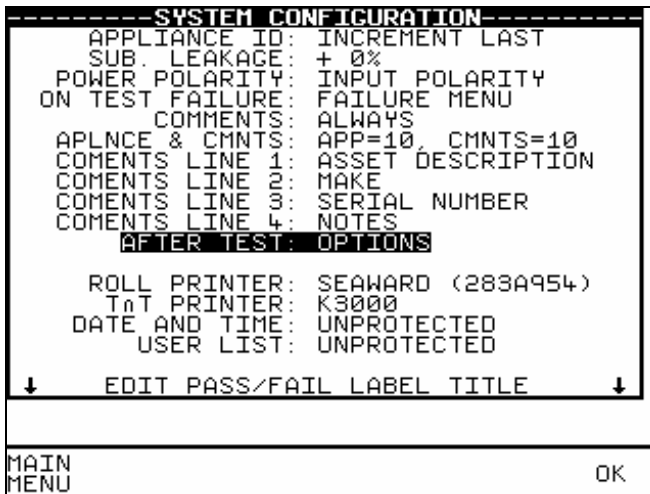
After the label is printed press the on-board cutter at the front of printer (where the label appears).

To remove the backing from the label use the Peel Stick provided. A separate Instruction sheet is included to show you how the Peel Stick is used. Automatic Printing of Labels

Note

This is feature is only available with Supernova Plus or Europa Plus testers

It is possible to set up the tester such that it prints a label automatically at the end of each test. To do this it is necessary to make changes to the SYSTEM CONFIGURATION menu. From the MAIN MENU select SETUP then SYSTEM CONFIGURATION to display the following menu:



Use the cursor keys to select the AFTER TEST option. Repeatedly Press the ENTER key until the following selection appears:

```

-----SYSTEM CONFIGURATION-----
APPLIANCE ID: INCREMENT LAST
SUB. LEAKAGE: + 0%
POWER POLARITY: INPUT POLARITY
ON TEST FAILURE: FAILURE MENU
COMMENTS: ALWAYS
APLNCE & CMNTS: APP=10, CMNTS=10
COMENTS LINE 1: ASSET DESCRIPTION
COMENTS LINE 2: MAKE
COMENTS LINE 3: SERIAL NUMBER
COMENTS LINE 4: NOTES
AFTER TEST: DOWNLOAD OPTIONS
CONFIGURE
ROLL PRINTER: SEAWARD (283A954)
TnT PRINTER: K3000
DATE AND TIME: UNPROTECTED
USER LIST: UNPROTECTED
↓ EDIT PASS/FAIL LABEL TITLE ↓
MAIN MENU OK

```

Use the cursor keys to select CONFIGURE to display the following:

```

-----DOWNLOAD OPTIONS-----
DESTINATION: TRANSFER PRINTER
OUTPUT CONNECTION: RS232
BAUD RATE: 57600
DOWNLOAD FORMAT: TEST'N'TAG LABELS
OK
HELP OK

```

If the options are not set on entering this screen, use the cursor keys to select DESTINATION then repeatedly press the ENTER key until TRANSFER PRINTER is displayed.

Use the fast key OK to save the settings on both the DOWNLOAD OPTIONS and SYSTEM CONFIGURATION screens. The tester is now set to print a label automatically at the end of each test.

Changing the label title

The label title can be changed so that the default title, SEAWARD TEST 'N' TAG LABEL is replaced with your own text.

Note

The Label Title can also be changed in the Tester Logo Transfer program and Uploaded into the tester (see Adding a Logo to the Label).

To change the label title at the tester, from the MAIN MENU select SETUP then SYSTEM CONFIGURATION to display the following menu:

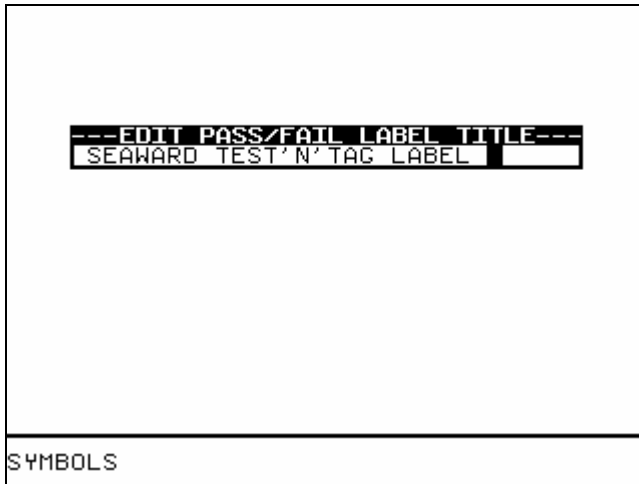
```
-----SYSTEM CONFIGURATION-----
APPLIANCE ID: INCREMENT LAST
SUB. LEAKAGE: + 0%
POWER POLARITY: INPUT POLARITY
ON TEST FAILURE: FAILURE MENU
COMMENTS: ALWAYS
APLNCE & CMNTS: APP=10, CMNTS=10
COMENTS LINE 1: ASSET DESCRIPTION
COMENTS LINE 2: MAKE
COMENTS LINE 3: SERIAL NUMBER
COMENTS LINE 4: NOTES
AFTER TEST: OPTIONS

ROLL PRINTER: SEAWARD (283A954)
TAG PRINTER: K3000
DATE AND TIME: UNPROTECTED
USER LIST: UNPROTECTED

↓ EDIT PASS/FAIL LABEL TITLE ↓

MAIN MENU OK
```

Use the cursor keys to select EDIT PASS / FAIL LABEL TITLE. Then press the ENTER key to display the following screen:



```
---EDIT PASS/FAIL LABEL TITLE---
SEAWARD TEST 'N' TAG LABEL
```

SYMBOLS

Enter your own text then press ENTER. Up to 29 characters can be entered.

Note

This label title change will also occur on Roll printer Pass /Fail labels (see tester Instruction Manual for Roll printer information).

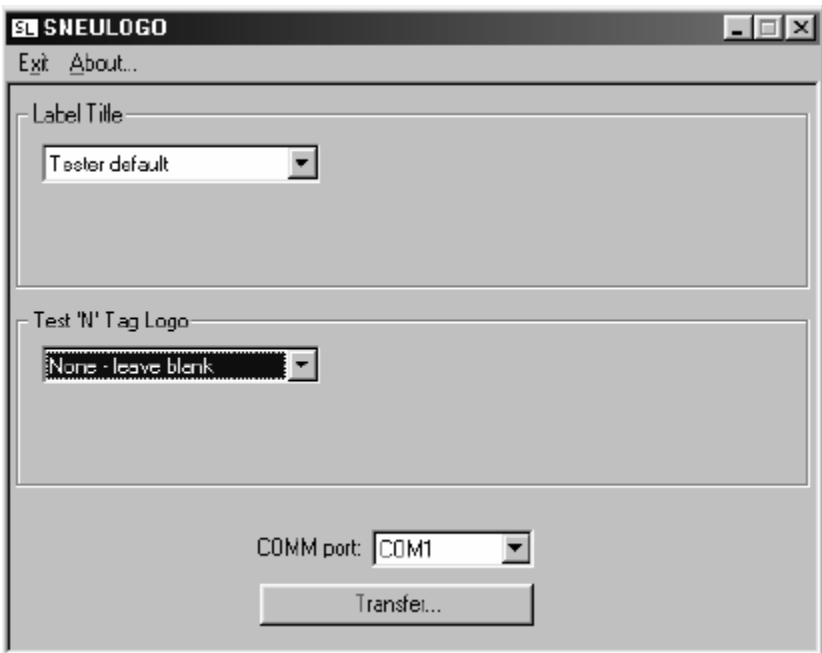
Adding a logo to the label

To add a logo to the labels it is necessary to transfer a logo from the PC into the tester.

Note

The tester is only able to hold one logo at a time. Transferring another logo will cause the first logo to be overwritten in the tester.

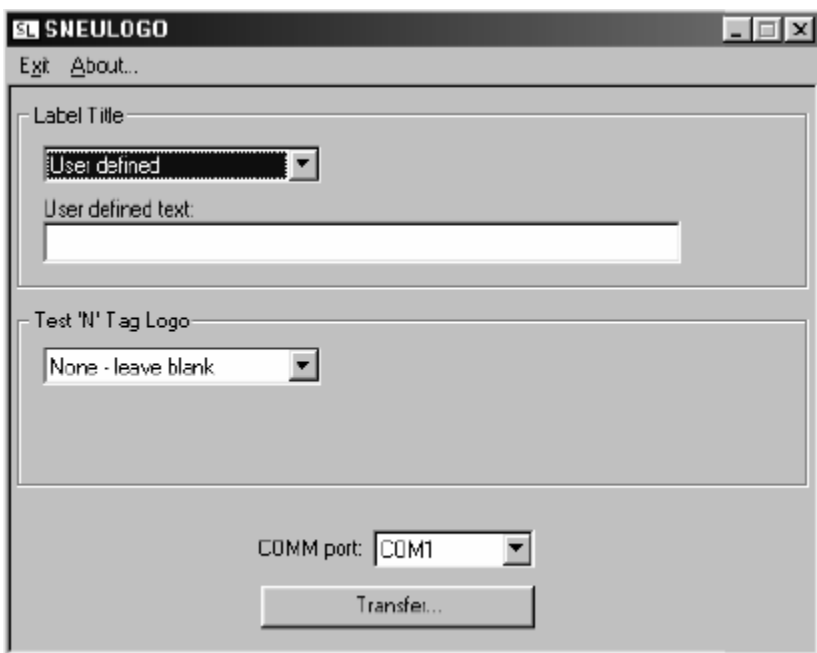
The Tester Logo Transfer program is used to validate the logo and transfer it to the tester. (This is available with PATGuard Plus version 4.4 and above). Run the Tester Logo Transfer program from Windows Start, PATGuard program group.



Label Title

The program is set to use the default label title in the tester. This can also be changed at the tester (see Changing the Label Title).

To change the Label Title from the **Label title** drop down select **User defined** to display the following:



Enter up to 29 characters for the label title in the User defined text.

Note

This label title change will also occur on Roll printer Pass /Fail labels (see tester Instruction Manual for Roll printer information).

If no logo is required set **Test 'N' Tag Logo** to **None – leave blank**. Ensure the correct **Com Port** is set then press the **Transfer...** button. Put the tester into REMOTE MODE (see tester Instruction Manual) then select OK. The label title will then be transferred into the tester.

Test 'N' Tag Logo

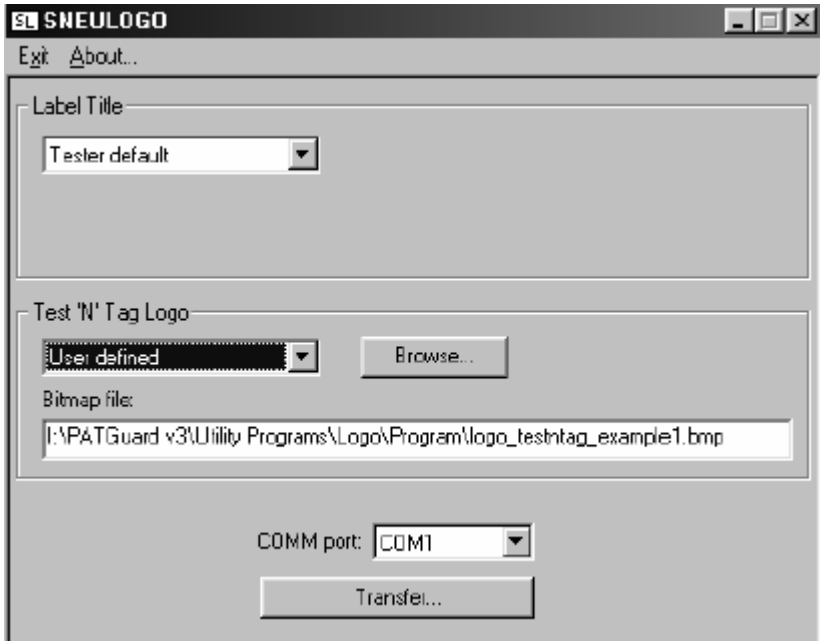
The program allows you to select a logo to transfer to the tester. Three example logos are supplied with the program. Any one of these can be transferred to the tester or they could form the basis of your own logo design using a suitable Windows application.

Note

The Tester Logo Transfer program cannot be used to design a logo but is only used to transfer a suitable logo into the tester.

The logo must be monochrome, and no more than 320 pixels wide by 240 pixels high. The program will check that the logo meets this criteria before transfer to the tester. If the logo validation fails a warning message is displayed and the logo cannot be transferred.

To select a logo from the **Test 'N' Tag Logo** drop down select **User defined**. Select a bit map file of the logo with the aid of the **Browse...** Button if necessary. Optionally set a Label Title as defined above.



Transfer

To send the Logo and/or Label Title to the tester ensure the correct **Com Port** is set then press the **Transfer...** button. Put the tester into REMOTE MODE (see tester Instruction Manual) then select OK. The logo together with a label title (if required) will then be transferred into the tester.

Note

The Logo stored in the tester can be protected by a Password if this has been evoked in the tester (see the tester Instruction Manual). To maintain security; had a password been set in the tester, on starting the transfer the Tester Logo Transfer program will request this password before proceeding.

6. Trouble Shooting

A lot of print quality problems can be resolved by ensuring the cartridge has been tensioned prior to installation in the printer as described in Section 2.

The table below should help you resolve most problems.

Problem	Resolution
No Transfer Printer in Download menu on tester	<ol style="list-style-type: none"> 1) Check firmware version in tester is 27a or higher. 2) Update tester firmware if necessary.
No Re-test Period in Asset Details menu on tester	<ol style="list-style-type: none"> 1) Check firmware version in tester is 27a or higher. 2) Update tester firmware if necessary.
No Green Power On Indicator	<ol style="list-style-type: none"> 1) Check Power Supply plugged into outlet socket and socket switched on. 2) Check Power Supply is connected to printer. Reseat incoming power lead to printer. 3) Check Printer is switched on. 4) Try another power supply to confirm power supply faulty if possible. 5) Fault persists – contact Seaward Technical Support.
Printer has flashing red light.	<ol style="list-style-type: none"> 1) Place or reseat cartridge in printer and lock in position. Switch off printer and switch back on to reset flashing red light. 2) Fault persists – contact Seaward Technical Support.
Tester Printer Error Message 'No Printer Connected'	<p>Tester has had no response from the printer.</p> <ol style="list-style-type: none"> 1) Ensure the printer is switched on. 2) Ensure cartridge is in printer and locked in properly. 3) Ensure interface cable from the tester to the printer is connected. 4) Reseat interface cable.

	<p>5) Replace interface cable if possible</p> <p>6) Fault persists – contact Seaward Technical Support.</p>
Tester Printer Error Message 'Incorrect Printer Type Connected'	<p>Not a Seaward K3000PC or K3110PC Printer.</p> <p>Contact Seaward Technical Support.</p>
Tester Printer Error Message 'Printer contains Incompatible Media'	<p>Print Cartridge incorrect type. Not Seaward Part Number 308A954 or 342A912 (either black / yellow or black / white)</p> <p>1) Insert correct Cartridge Type. Retry.</p> <p>2) Fault persists – contact Seaward Technical Support.</p>
Tester Printer Error Message 'No Paper in Printer'	<p>1) Printer ran out of labels. Replace cartridge.</p> <p>2) Fault persists – contact Seaward Technical Support.</p>
Tester Printer Error Message 'Print Media Jam'	<p>1) Label jam. Replace cartridge.</p> <p>2) Fault persists – contact Seaward Technical Support.</p>
Tester Printer Error Message 'Generic Printer Error'	<p>Printer faulty.</p> <p>1) Power Off / On printer. Paper feed. Cut off label. Re-try.</p> <p>2) Fault persists – contact Seaward Technical Support.</p>
Labels are not being printed correctly	<p>1) Ensure that the cartridge has been tensioned correctly before being put in to the printer as described on the back of the carton and in section 2 of this Manual.</p> <p>2) Ensure the cartridge has been put into the printer correctly and locked in.</p> <p>3) Try another cartridge that has been tensioned correctly.</p> <p>4) Fault persists – contact Seaward Technical Support.</p>

Print has lines running across	<p>1) Remove cartridge and gently wipe head with alcohol wipes or clean cloth. Re-install cartridge.</p> <p>2) Try another cartridge – ensure new cartridge tensioned prior to installing.</p> <p>3) Fault persists – contact Seaward Technical Support.</p>
No Barcode printed on label	The appliance ID length is greater than 12 digits, barcode cannot be printed
Tester displays a “Timeout error code 0xFFFF”	<p>This means that the tester has tried to send data to the printer, but it has not received any response.</p> <p>1) Check the printer is turned on.</p> <p>2) Check the Bluetooth favourites – Setup screen, Check that the printer type is set to “Test’n’Tag”.</p>

7. Parts List

Item	Part Number
Printer & Power Supply	308A961
Power Supply	308A963
Printer Lead (Supernova / Europa)	308A950
This Instruction manual	308A550
Download Lead (Supernova / Europa)	194A919
Peel Stick	308A951
Supply Cartridge (Black on Yellow)	308A954
Supply Cartridge (Black on White)	342A912
Bluetooth Test'n'Tag adapter	342A914
PATGuard Elite software disc	352A910
PATGuard Pro software disc	352A920
PATGuard Lite software disc	352A930

