# Test Prints

Usage Report Page 2
Information Page 3
NVM Contents Page 9

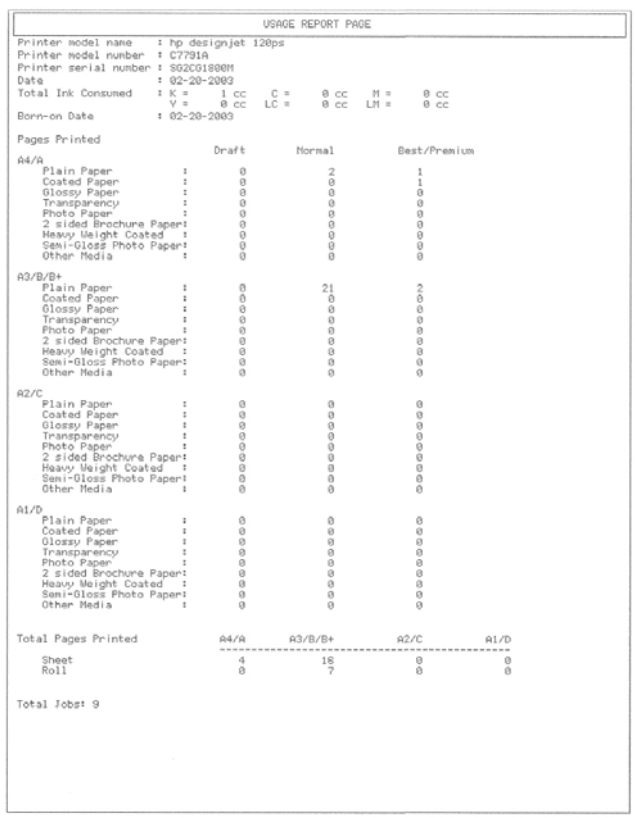
## Usage Report Page

The Usage Report Page contains the following information:

- Printer Model Name.
- Printer Model Number.
- Printer Serial Number.
- Date of last print job received.
- Total ink consumed.
- Date of first print job received.
- Number of pages printed (media size/media type/print quality setting).

To print the Usage Report Page, hold the power button down and press the resume button **once**.

**Sample of the Usage Report Page**



```
                                    USAGE REPORT PAGE
Printer model name    : hp designjet 120ps
Printer model number  : C7791A
Printer serial number : SG2CG1800M
Date                  : 02-20-2003
Total Ink Consumed    : K =     1 cc    C =     0 cc    M =     0 cc
                        Y =     0 cc   LC =     0 cc   LM =     0 cc
Born-on Date          : 02-20-2003

Pages Printed
                                Draft        Normal          Best/Premium
A4/A
    Plain Paper           :       0             2             1
    Coated Paper          :       0             0             1
    Glossy Paper          :       0             0             0
    Transparency          :       0             0             0
    Photo Paper           :       0             0             0
    2 sided Brochure Paper:       0             0             0
    Heavy Weight Coated   :       0             0             0
    Semi-Gloss Photo Paper:       0             0             0
    Other Media           :       0             0             0

A3/B/B+
    Plain Paper           :       0            21             2
    Coated Paper          :       0             0             0
    Glossy Paper          :       0             0             0
    Transparency          :       0             0             0
    Photo Paper           :       0             0             0
    2 sided Brochure Paper:       0             0             0
    Heavy Weight Coated   :       0             0             0
    Semi-Gloss Photo Paper:       0             0             0
    Other Media           :       0             0             0

A2/C
    Plain Paper           :       0             0             0
    Coated Paper          :       0             0             0
    Glossy Paper          :       0             0             0
    Transparency          :       0             0             0
    Photo Paper           :       0             0             0
    2 sided Brochure Paper:       0             0             0
    Heavy Weight Coated   :       0             0             0
    Semi-Gloss Photo Paper:       0             0             0
    Other Media           :       0             0             0

A1/D
    Plain Paper           :       0             0             0
    Coated Paper          :       0             0             0
    Glossy Paper          :       0             0             0
    Transparency          :       0             0             0
    Photo Paper           :       0             0             0
    2 sided Brochure Paper:       0             0             0
    Heavy Weight Coated   :       0             0             0
    Semi-Gloss Photo Paper:       0             0             0
    Other Media           :       0             0             0


Total Pages Printed             A4/A       A3/B/B+          A2/C          A1/D
                                ---------------------------------------------
    Sheet                         4            16             0             0
    Roll                          0             7             0             0


Total Jobs: 9
```

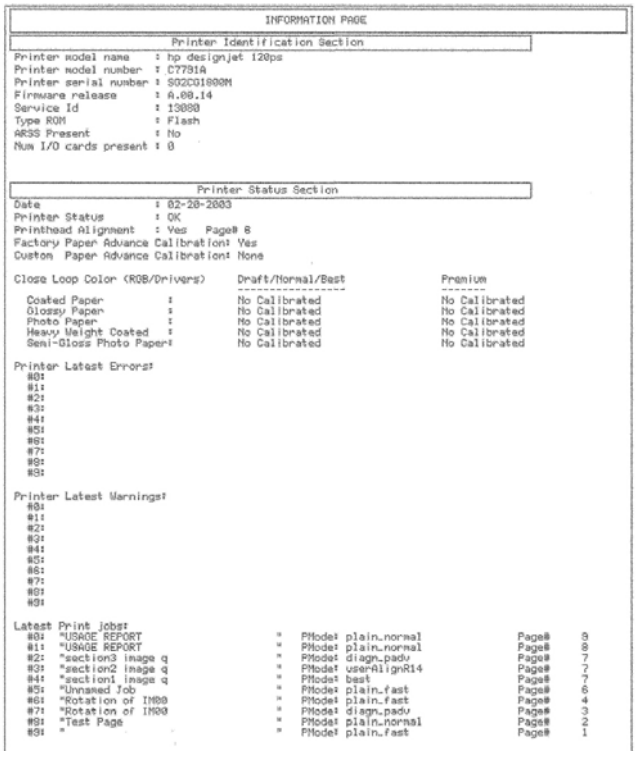
## Information Page

The Information Page contains the following information:

- Printer Identification (see Page *4-5*).
- Printer Status (see Page *4-5*).
- Printer Job Queue (see Page *4-5*).
- Printer Errors and Warnings (see Page *4-6*).
- Printer Usage (see Page *4-6*).
- Ink Consumable Identification (see Page *4-7*).
- Ink Consumable Status (see Page *4-7*).
- Ink Consumable Usage (see Page *4-7*).
- Network Card Information (see Page *4-8*).

To print the Information Page, hold the power button down and press the resume button **4 times**.

**Sample of the Information Page (page 1 of 3)**



INFORMATION PAGE

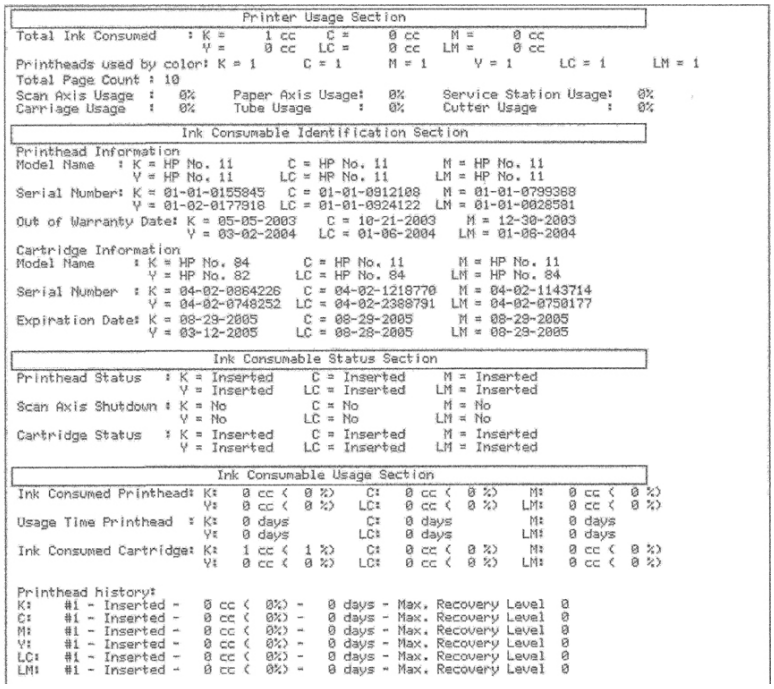
Printer Identification Section

```
Printer model name      : hp designjet 120ps
Printer model number    : C7791A
Printer serial number   : SG2CG1800M
Firmware release        : A.08.14
Service Id              : 13080
Type ROM                : Flash
ARSS Present            : No
Num I/O cards present   : 0
```

Printer Status Section

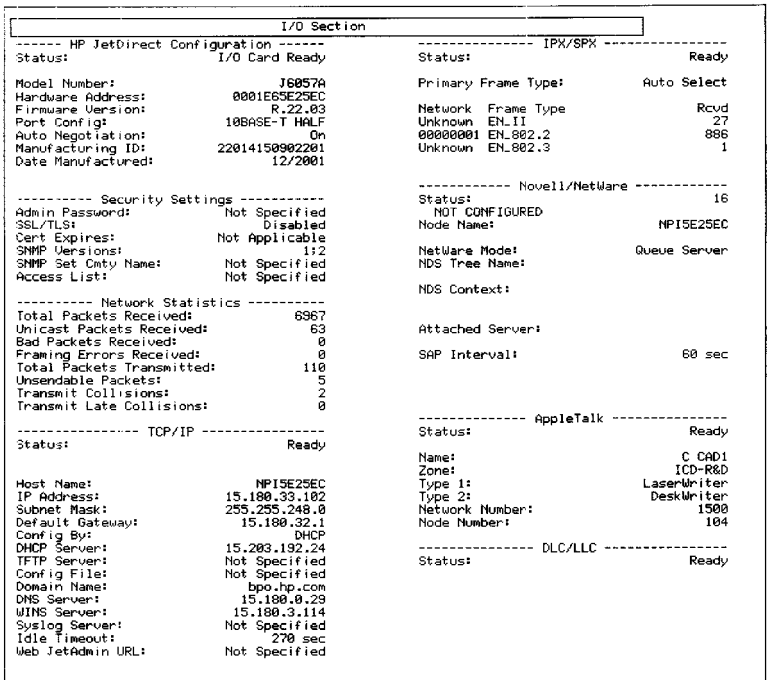
```
Date                    : 02-20-2003
Printer Status          : OK
Printhead Alignment     : Yes   Page# 8
Factory Paper Advance Calibration: Yes
Custom  Paper Advance Calibration: None

Close Loop Color (RGB/Drivers)     Draft/Normal/Best          Premium
                                   ----------------           -------
  Coated Paper          :          No Calibrated              No Calibrated
  Glossy Paper          :          No Calibrated              No Calibrated
  Photo Paper           :          No Calibrated              No Calibrated
  Heavy Weight Coated   :          No Calibrated              No Calibrated
  Semi-Gloss Photo Paper:          No Calibrated              No Calibrated

Printer Latest Errors:
  #0:
  #1:
  #2:
  #3:
  #4:
  #5:
  #6:
  #7:
  #8:
  #9:

Printer Latest Warnings:
  #0:
  #1:
  #2:
  #3:
  #4:
  #5:
  #6:
  #7:
  #8:
  #9:

Latest Print jobs:
  #0: "USAGE REPORT              "  PMode: plain_normal        Page#  9
  #1: "USAGE REPORT              "  PMode: plain_normal        Page#  8
  #2: "section3 image q          "  PMode: diagn_padv          Page#  7
  #3: "section2 image q          "  PMode: userAlignR14        Page#  7
  #4: "section1 image q          "  PMode: best                Page#  7
  #5: "Unnamed Job               "  PMode: plain_fast          Page#  6
  #6: "Rotation of IM80          "  PMode: plain_fast          Page#  4
  #7: "Rotation of IM80          "  PMode: diagn_padv          Page#  3
  #8: "Test Page                 "  PMode: plain_normal        Page#  2
  #9: "                          "  PMode: plain_fast          Page#  1
```

**Sample of the Information Page (page 2 of 3)**



```
                    Printer Usage Section
Total Ink Consumed     : K =     1 cc    C =     0 cc    M =     0 cc
                         Y =     0 cc   LC =     0 cc   LM =     0 cc
Printheads used by color: K = 1      C = 1      M = 1      Y = 1      LC = 1      LM = 1
Total Page Count : 10
Scan Axis Usage  :   0%     Paper Axis Usage:   0%     Service Station Usage:   0%
Carriage Usage   :   0%     Tube Usage      :   0%     Cutter Usage          :   0%

                  Ink Consumable Identification Section
Printhead Information
Model Name     : K = HP No. 11       C = HP No. 11       M = HP No. 11
                 Y = HP No. 11      LC = HP No. 11      LM = HP No. 11
Serial Number: K = 01-01-0155845    C = 01-01-0912108   M = 01-01-0799388
                 Y = 01-02-0177918  LC = 01-01-0924122  LM = 01-01-0028581
Out of Warranty Date: K = 05-05-2003    C = 10-21-2003    M = 12-30-2003
                      Y = 03-02-2004   LC = 01-06-2004   LM = 01-08-2004
Cartridge Information
Model Name     : K = HP No. 84       C = HP No. 11       M = HP No. 11
                 Y = HP No. 82      LC = HP No. 84      LM = HP No. 84
Serial Number  : K = 04-02-0864226   C = 04-02-1218770   M = 04-02-1143714
                 Y = 04-02-0748252  LC = 04-02-2388791  LM = 04-02-0750177
Expiration Date: K = 08-29-2005      C = 08-29-2005      M = 08-29-2005
                 Y = 03-12-2005     LC = 08-28-2005     LM = 08-29-2005

                   Ink Consumable Status Section
Printhead Status   : K = Inserted     C = Inserted     M = Inserted
                     Y = Inserted    LC = Inserted    LM = Inserted
Scan Axis Shutdown : K = No           C = No           M = No
                     Y = No          LC = No          LM = No
Cartridge Status   : K = Inserted     C = Inserted     M = Inserted
                     Y = Inserted    LC = Inserted    LM = Inserted

                   Ink Consumable Usage Section
Ink Consumed Printhead: K:   0 cc (  0 %)    C:   0 cc (  0 %)    M:   0 cc (  0 %)
                        Y:   0 cc (  0 %)   LC:   0 cc (  0 %)   LM:   0 cc (  0 %)
Usage Time Printhead  : K:   0 days          C:   0 days          M:   0 days
                        Y:   0 days         LC:   0 days         LM:   0 days
Ink Consumed Cartridge: K:   1 cc (  1 %)    C:   0 cc (  0 %)    M:   0 cc (  0 %)
                        Y:   0 cc (  0 %)   LC:   0 cc (  0 %)   LM:   0 cc (  0 %)

Printhead history:
K:    #1 - Inserted -   0 cc (  0%) -   0 days - Max. Recovery Level  0
C:    #1 - Inserted -   0 cc (  0%) -   0 days - Max. Recovery Level  0
M:    #1 - Inserted -   0 cc (  0%) -   0 days - Max. Recovery Level  0
Y:    #1 - Inserted -   0 cc (  0%) -   0 days - Max. Recovery Level  0
LC:   #1 - Inserted -   0 cc (  0%) -   0 days - Max. Recovery Level  0
LM:   #1 - Inserted -   0 cc (  0%) -   0 days - Max. Recovery Level  0
```

**Sample of the Information Page (page 3 of 3)**



```
                        I/O Section
------ HP JetDirect Configuration ------
Status:                      I/O Card Ready

Model Number:                       J6057A
Hardware Address:             0001E65E25EC
Firmware Version:                 R.22.03
Port Config:                  10BASE-T HALF
Auto Negotiation:                       On
Manufacturing ID:             22014150902201
Date Manufactured:                12/2001


---------- Security Settings ----------
Admin Password:               Not Specified
SSL/TLS:                          Disabled
Cert Expires:                 Not Applicable
SNMP Versions:                          1:2
SNMP Set Cmty Name:           Not Specified
Access List:                  Not Specified

---------- Network Statistics ----------
Total Packets Received:                6967
Unicast Packets Received:                63
Bad Packets Received:                     0
Framing Errors Received:                  0
Total Packets Transmitted:              110
Unsendable Packets:                       5
Transmit Collisions:                      2
Transmit Late Collisions:                 0

---------- TCP/IP ----------
Status:                              Ready


Host Name:                        NPI5E25EC
IP Address:                 15.180.33.102
Subnet Mask:                255.255.248.0
Default Gateway:              15.180.32.1
Config By:                           DHCP
DHCP Server:                15.203.192.24
TFTP Server:                Not Specified
Config File:                Not Specified
Domain Name:                     bpo.hp.com
DNS Server:                   15.180.0.29
WINS Server:                15.180.3.114
Syslog Server:              Not Specified
Idle Timeout:                       270 sec
Web JetAdmin URL:           Not Specified

---------- IPX/SPX ----------
Status:                              Ready

Primary Frame Type:                  Auto Select

Network  Frame Type                      Rcvd
Unknown  EN_II                             27
00000001 EN_802.2                         886
Unknown  EN_802.3                           1


---------- Novell/NetWare ----------
Status:                                    16
  NOT CONFIGURED
Node Name:                        NPI5E25EC

NetWare Mode:                    Queue Server
NDS Tree Name:

NDS Context:


Attached Server:

SAP Interval:                         60 sec



---------- AppleTalk ----------
Status:                              Ready

Name:                                C CAD1
Zone:                              ICD-R&D
Type 1:                         LaserWriter
Type 2:                          DeskWriter
Network Number:                        1500
Node Number:                            104

---------- DLC/LLC ----------
Status:                              Ready
```

# Information Page Explanations

## Printer Identification Section

```
                                Printer Identification Section
Printer model name     : hp designjet 120ps
Printer model number   : C7791A
Printer serial number  : SG2CG1800M
Firmware release       : A.00.14
Service Id             : 13080
Type ROM               : Flash
ARSS Present           : No
Num I/O cards present  : 0
```

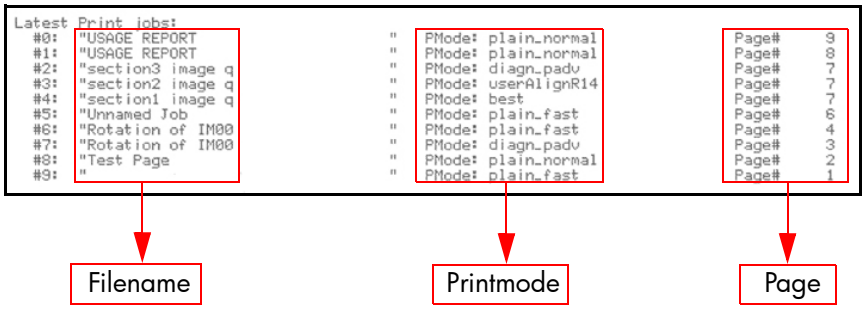
- Should a Service Note be applied to the Printer?
- Is the Firmware Release the most current one?
- Is the Printer under warranty?
- Can the Printer Firmware be upgraded?
- Does the Printer have a Network card?

## Printer Status Section

```
                                        Printer Status Section
Date                          : 02-20-2003
Printer Status                : OK
Printhead Alignment           : Yes   Page# 6
Factory Paper Advance Calibration: Yes
Custom  Paper Advance Calibration: None
```

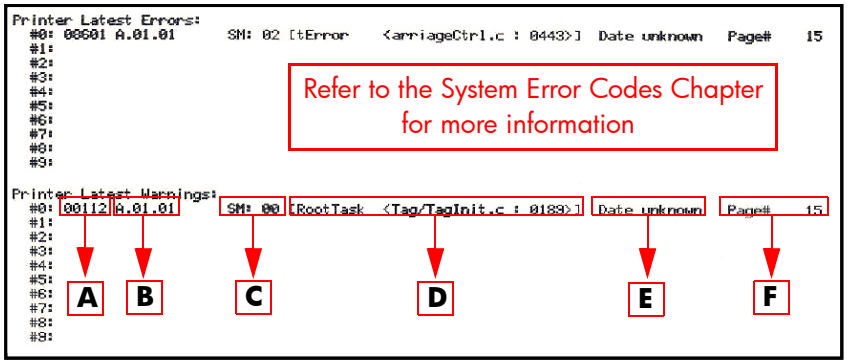
- Is the computer sending the right data to the Printer?
- Has the automatic Printhead Alignment failed?
- Has the factory Paper-Advance Calibration been performed?
- Has the user calibrated a specific paper type for top accuracy?

## Printer Status - Job Queue




- Which file is causing the problem?
- Is the User "causing" print quality issues?

### Printer Status Section - Errors and Warnings



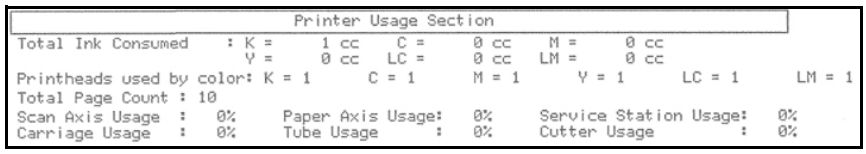

**A** - Error Code.
**B** - Printer Firmware Release when the problem occurred.
**C** - Code for the state of the Printer (see table below).
**D** - Task name, file name, code line.
**E** - Date when problem occurred.
**F** - Page count when problem occurred.

- Has an unrecoverable error occurred?
- Why did the Printhead Alignment fail?
- Why is the Printer not able to initialize completely?
- Is there a Firmware/Driver bug?

### Codes for Printer States

| Code (SM) | State | Code (SM) | State |
|---|---|---|---|
| 00 | Printer OFF | 06 | Printing |
| 01 | Printer initializing | 07 | Not Ready |
| 02 | Printer | 08 | Error |
| 03 | While replacing Printheads | 09 | While powering down |
| 04 | While replacing Ink Cartridges | 10 | Sleep |
| 05 | Calibrating | 11 | While upgrading Firmware |

### Printer Usage Section




- Does the Printer have too much "Aerosol"?
- Is the Printer too noisy?
- Is the Printer close to it's end of life?

### In Consumable Identification Section

```
                    Ink Consumable Identification Section
Printhead Information
Model Name    : K = HP No. 11       C = HP No. 11       M = HP No. 11
                Y = HP No. 11      LC = HP No. 11      LM = HP No. 11
Serial Number: K = 01-01-0155845   C = 01-01-0912108   M = 01-01-0799368
                Y = 01-02-0177918  LC = 01-01-0924122  LM = 01-01-0028581
Out of Warranty Date: K = 05-05-2003    C = 10-21-2003    M = 12-30-2003
                      Y = 03-02-2004   LC = 01-06-2004   LM = 01-06-2004
Cartridge Information
Model Name      : K = HP No. 84       C = HP No. 11       M = HP No. 11
                  Y = HP No. 82      LC = HP No. 84      LM = HP No. 84
Serial Number   : K = 04-02-0864226   C = 04-02-1218770   M = 04-02-1143714
                  Y = 04-02-0748252  LC = 04-02-2388791  LM = 04-02-0750177
Expiration Date: K = 08-29-2005       C = 08-29-2005      M = 08-29-2005
                  Y = 03-12-2005     LC = 08-28-2005     LM = 08-29-2005
```

- Are ink consumables from HP and covered by warranty?
- Have the Ink Cartridges expired?
- Are the Printheads too old?

### Ink Consumable Status Section

```
                      Ink Consumable Status Section
Printhead Status    : K = Inserted      C = Inserted      M = Inserted
                      Y = Inserted     LC = Inserted     LM = Inserted
Scan Axis Shutdown  : K = No            C = No            M = No
                      Y = No           LC = No           LM = No
Cartridge Status    : K = Inserted      C = Inserted      M = Inserted
                      Y = Inserted     LC = Inserted     LM = Inserted
```

- Are the Printheads/Ink Cartridges OK?
- Do the Printheads need aligning?

### Ink Consumable Usage Section

```
                      Ink Consumable Usage Section
Ink Consumed Printhead: K:   0 cc (  0 %)   C:   0 cc (  0 %)   M:   0 cc (  0 %)
                        Y:   0 cc (  0 %)  LC:   0 cc (  0 %)  LM:   0 cc (  0 %)
Usage Time Printhead  : K:   0 days         C:   0 days         M:   0 days
                        Y:   0 days        LC:   0 days        LM:   0 days
Ink Consumed Cartridge: K:   1 cc (  1 %)   C:   0 cc (  0 %)   M:   0 cc (  0 %)
                        Y:   0 cc (  0 %)  LC:   0 cc (  0 %)  LM:   0 cc (  0 %)

Printhead history:
K:   #1 - Inserted - 0 cc (  0%) - 0 days - Max. Recovery Level  0
C:   #1 - Inserted - 0 cc (  0%) - 0 days - Max. Recovery Level  0
M:   #1 - Inserted - 0 cc (  0%) - 0 days - Max. Recovery Level  0
Y:   #1 - Inserted - 0 cc (  0%) - 0 days - Max. Recovery Level  0
LC:  #1 - Inserted - 0 cc (  0%) - 0 days - Max. Recovery Level  0
LM:  #1 - Inserted - 0 cc (  0%) - 0 days - Max. Recovery Level  0
```

Printhead Status before replacement

Ink consumed before replacement

Usage time before replacement

Maximum recovery level by Printhead

Error Code before replacement

- Are the Printheads too old?
- Are the Printheads in warranty?
- Are the Ink Cartridges almost empty?
- Is there enough capacity for the Ink cartridges?
- Is the User replacing the Printheads too early?
- Is the User trying to recover the Printheads?
- Is the Printer destroying the Printheads?

### I/O Section - hp jetdirect configuration

```
------ HP JetDirect Configuration ------
Status:                        I/O Card Ready

Model Number:                          J6057A
Hardware Address:                0001E65E25EC
Firmware Version:                     R.22.03
Port Config:                    10BASE-T HALF
Auto Negotiation:                         On
Manufacturing ID:              22014150902201
Date Manufactured:                   12/2001
```

- Is the network transmission speed OK?
- Does the Network Card have the correct Firmware Release?
- Is the Network Card the right one for this Printer?

### I/O Section - TCP/IP information

```
---------------- TCP/IP ----------------
Status:                           Ready


Host Name:                       NPI5E25EC
IP Address:                15.180.33.102
Subnet Mask:               255.255.248.0
Default Gateway:             15.180.32.1
Config By:                          DHCP
DHCP Server:               15.203.192.24
TFTP Server:               Not Specified
Config File:               Not Specified
Domain Name:                  bpo.hp.com
DNS Server:                 15.180.0.29
WINS Server:                15.180.3.114
Syslog Server:             Not Specified
Idle Timeout:                    270 sec
Web JetAdmin URL:          Not Specified
```

- Is the IP address OK?
- Is the Subnet Mask OK?

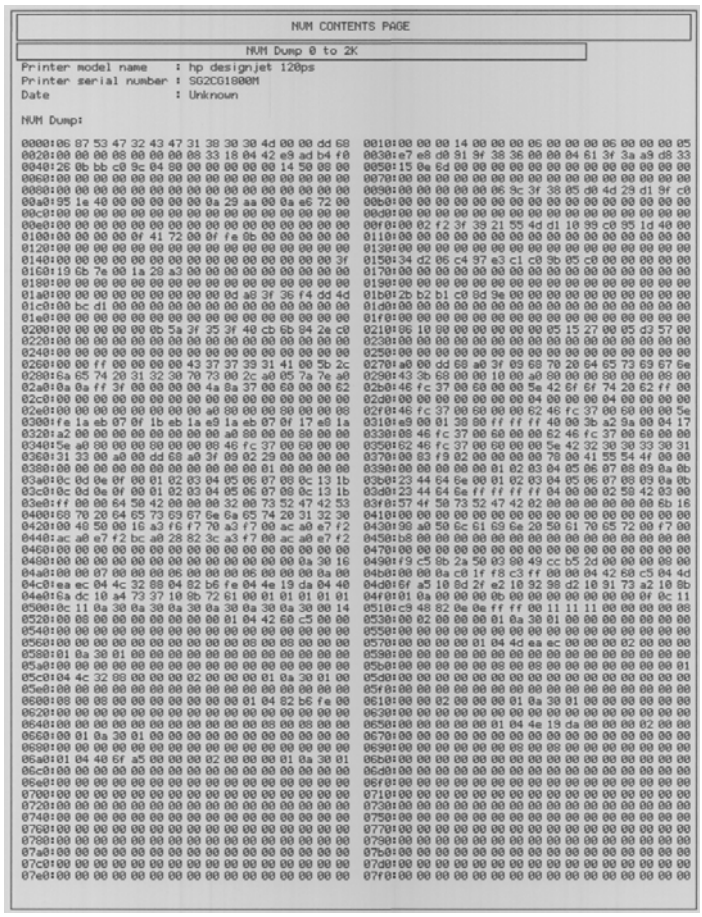
## NVM Contents Page

The NVM Contents Page contains the following information:

- EEROM values dump containing all the values stored in the EEROM (Calibration, etc.)
- Printheads Acumen dump
- Cartridges Acumen dump.

To print the NVM Contents Page, hold the power button down and press the cancel button **once** and the resume button **twice**.

**Sample of the NVM Contents Page (page 1 of 3)**

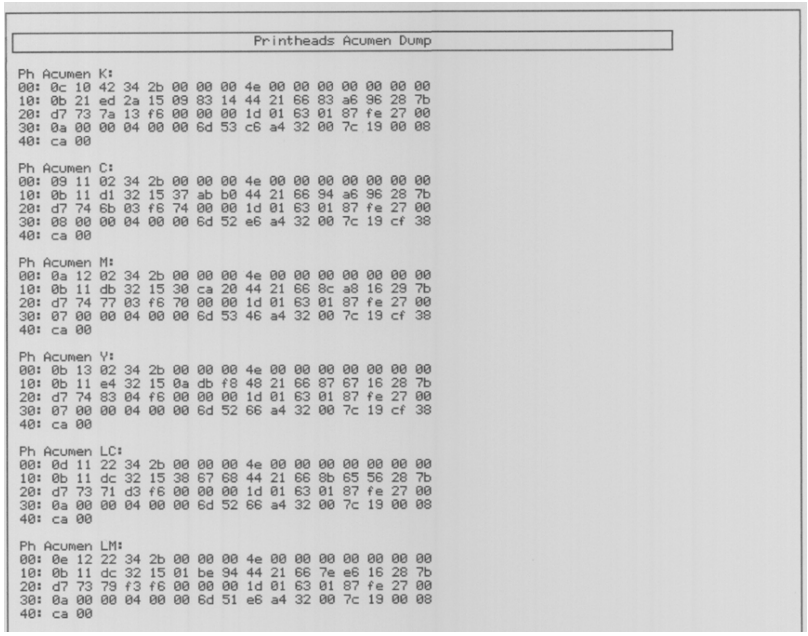

NVM CONTENTS PAGE

NVM Dump 0 to 2K

Printer model name : hp designjet 120ps
Printer serial number : SG2CG1800M
Date : Unknown

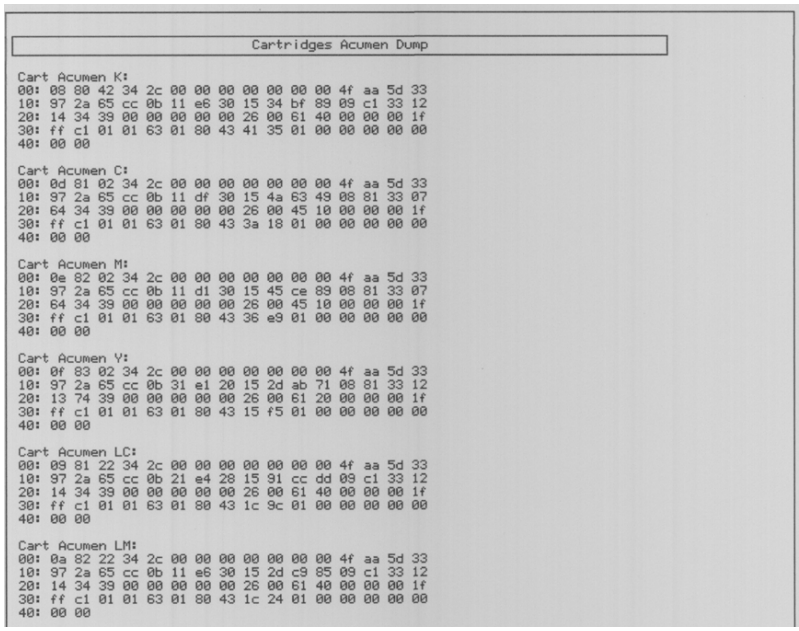
NVM Dump:

**Sample of the NVM Contents Page (page 2 of 3)**



```
Printheads Acumen Dump

Ph Acumen K:
00: 0c 10 42 34 2b 00 00 00 4e 00 00 00 00 00 00 00
10: 0b 21 ed 2a 15 09 83 14 44 21 66 83 a6 96 28 7b
20: d7 73 7a 13 f6 00 00 00 1d 01 63 01 87 fe 27 00
30: 0a 00 00 04 00 00 6d 53 c6 a4 32 00 7c 19 00 08
40: ca 00

Ph Acumen C:
00: 09 11 02 34 2b 00 00 00 4e 00 00 00 00 00 00 00
10: 0b 11 d1 32 15 37 ab b0 44 21 66 94 a6 96 28 7b
20: d7 74 6b 03 f6 74 00 00 1d 01 63 01 87 fe 27 00
30: 08 00 00 04 00 00 6d 52 e6 a4 32 00 7c 19 cf 38
40: ca 00

Ph Acumen M:
00: 0a 12 02 34 2b 00 00 00 4e 00 00 00 00 00 00 00
10: 0b 11 db 32 15 30 ca 20 44 21 66 8c a8 16 29 7b
20: d7 74 77 03 f6 70 00 00 1d 01 63 01 87 fe 27 00
30: 07 00 00 04 00 00 6d 53 46 a4 32 00 7c 19 cf 38
40: ca 00

Ph Acumen Y:
00: 0b 13 02 34 2b 00 00 00 4e 00 00 00 00 00 00 00
10: 0b 11 e4 32 15 0a db f8 48 21 66 87 67 16 28 7b
20: d7 74 83 04 f6 00 00 00 1d 01 63 01 87 fe 27 00
30: 07 00 00 04 00 00 6d 52 66 a4 32 00 7c 19 cf 38
40: ca 00

Ph Acumen LC:
00: 0d 11 22 34 2b 00 00 00 4e 00 00 00 00 00 00 00
10: 0b 11 dc 32 15 38 67 68 44 21 66 8b 65 56 28 7b
20: d7 73 71 d3 f6 00 00 00 1d 01 63 01 87 fe 27 00
30: 0a 00 00 04 00 00 6d 52 66 a4 32 00 7c 19 00 08
40: ca 00

Ph Acumen LM:
00: 0e 12 22 34 2b 00 00 00 4e 00 00 00 00 00 00 00
10: 0b 11 dc 32 15 01 be 94 44 21 66 7e e6 16 28 7b
20: d7 73 73 f3 f6 00 00 00 1d 01 63 01 87 fe 27 00
30: 0a 00 00 04 00 00 6d 51 e6 a4 32 00 7c 19 00 08
40: ca 00
```

**Sample of the NVM Contents Page (page 3 of 3)**



```
Cartridges Acumen Dump

Cart Acumen K:
00: 08 80 42 34 2c 00 00 00 00 00 00 00 4f aa 5d 33
10: 97 2a 65 cc 0b 11 e6 30 15 34 bf 89 09 c1 33 12
20: 14 34 39 00 00 00 00 00 26 00 61 40 00 00 00 1f
30: ff c1 01 01 63 01 80 43 41 35 01 00 00 00 00 00
40: 00 00

Cart Acumen C:
00: 0d 81 02 34 2c 00 00 00 00 00 00 00 4f aa 5d 33
10: 97 2a 65 cc 0b 11 df 30 15 4a 63 49 08 81 33 07
20: 64 34 39 00 00 00 00 00 26 00 45 10 00 00 00 1f
30: ff c1 01 01 63 01 80 43 3a 18 01 00 00 00 00 00
40: 00 00

Cart Acumen M:
00: 0e 82 02 34 2c 00 00 00 00 00 00 00 4f aa 5d 33
10: 97 2a 65 cc 0b 11 d1 30 15 45 ce 89 08 81 33 07
20: 64 34 39 00 00 00 00 00 26 00 45 10 00 00 00 1f
30: ff c1 01 01 63 01 80 43 36 e9 01 00 00 00 00 00
40: 00 00

Cart Acumen Y:
00: 0f 83 02 34 2c 00 00 00 00 00 00 00 4f aa 5d 33
10: 97 2a 65 cc 0b 31 e1 20 15 2d ab 71 08 81 33 12
20: 13 74 39 00 00 00 00 00 26 00 61 20 00 00 00 1f
30: ff c1 01 01 63 01 80 43 15 f5 01 00 00 00 00 00
40: 00 00

Cart Acumen LC:
00: 09 81 22 34 2c 00 00 00 00 00 00 00 4f aa 5d 33
10: 97 2a 65 cc 0b 21 e4 28 15 91 cc dd 09 c1 33 12
20: 14 34 39 00 00 00 00 00 26 00 61 40 00 00 00 1f
30: ff c1 01 01 63 01 80 43 1c 9c 01 00 00 00 00 00
40: 00 00

Cart Acumen LM:
00: 0a 82 22 34 2c 00 00 00 00 00 00 00 4f aa 5d 33
10: 97 2a 65 cc 0b 11 e6 30 15 2d c9 85 09 c1 33 12
20: 14 34 39 00 00 00 00 00 26 00 61 40 00 00 00 1f
30: ff c1 01 01 63 01 80 43 1c 24 01 00 00 00 00 00
40: 00 00
```