New Style Band Printer

Data Products has made some changes and imnprovements for better print quality, performance, and reliability to the Band Printers now being shipped to the field. The new parts should not be considered compatible unless so stated.

1. New Band Drive Motor with larger armature for increased torque.
2. New One Piece Rubber Coated Solid Steel Pulleys for smoother band movement.
3. New Band Idler Assembly with simple one screw adjustment for band tracking and edge guide load.
4. New Positive Ribbon Drive System using a drive belt with teeth, mating pulleys, and a spring loaded idler to prevent slippage which was common with the old O-Ring friction belt. O RING RIBBON DRIVE SYSTEM IS NOT UPGRADEABLE TO DIRECT DRIVE BECAUSE CASTINGS ARE DIFFERENT.
5. New Ribbon Jam Sensor, which also uses the "06" status display, to go with the ribbon movement sensor, all within one harness.
6. New Timing and Status Board which is compatible to all printers. However, if this board is used in a 600LPM printer, new Band-Speed and Programming Headers must be used. These headers are located at J2 and J4 and come as a set, part mumber 726-1726. The board should be indentifiable by its OEM number, 263080-001. Same Wang part #, 726-1107, as old style board.
7. New Power Board compatible with all printers. Has only connections for two solenoid clamps as there are only two clamps in the latest models. Leave right hand s/olenoid disconnected if using this board in an older printer and if using an older power board in a newer printer run a jumper across the third plug. This new board must have jumpers in at W3 and W6 so please check before installing. Same Wang part # for all power boards, 726-1219. OEM # 263040-001.
8. New Optional Bottom of Form Guide which is a self adhesive strip of mylar attaching to the left side of the print station to hold the paper when the last form is no longer held by the paper clamps.

NEW PART NUMBERS

DESCRIPTION	PART NUMBER	OEM NUMBER
CLUTCHING WASHER FOUND ON BAND MTR SHAFT	726-1554	
Band Drive Motor	726-1728	263476-001
Band Drive Pulleys	726-1729	257570-001
Band Idler Ass'y	726-1738	263006-001
Ribbon Belt Tension Arm	726-1739	263477-001
Ribbon Belt Tension Arm Spring	726-1740	263363-001
Ribbon Drive Pulley	726-1737	263458-001
Ribbon Drive Belt	726-1730	801669-006
Ribbon Drive Ass'y	726-1731	263455-01
Ribbon Jam/Motion Harness	726-1727	267372-001

DESCRIPTION	PART NUMBER	OEM NUMBER
Band-Speed and Programmable Header Kit for New Style Timing & Status Brd. on 600LPM printers	726-1726	810106-004
Optional Bottom of Form Guide	726-1736	257454
B300 Paper Out Switch Ass'y	726-1732	246381-002
B600 Paper Out IC Hall Effect	726-1733	810205-001
B600 Paper Out Harness & IC Ass'y	726-1734	251127-002
B600 Auxillary Capacitor Pack	726-1735	251086-001
Latch Kit	726-1702	267451-001
10 AMP Line Filter	726-1220	
Paper Guide Clip	726-1225	247963-001
Left Door Hinge	726-1226	242580-001
Right Door Hinge	726-1227	242580-002
Terminator Brd. (parallel only)	726-1228	257344-001
Static Eliminator Kit	726-0006	
Printer Cover Ass'y	726-1741	
Door Ass'y	726-1742	
Paper Deflector	726-1743	257219-001
Ground Brush	726-1744	251846-001

Defective Hammerbank Backstop Screws

Data Products has discovered a problem with some backstop screws which results in either a missing or misregistered character for the first several lines of print after an hour or so of the printer being inactive. This is caused by the material from which some backstop screws are made bonding itself to the hammer. Replace the backstop screw with one from stock as these should not have this problem although physically they look the same. Backstop Screw - part # 726-1112.

WANG LABORATORIES, INC.

TO: ALL COMPUTER PERSONNEL

FROM: KEITH JONES
          JOE MCDERMOTT
          TIM DAWSON
          DICK KNAPP

SUBJ.:   WEEKLY COMPUTER TELEX # 30

DATE: JANUARY 29, 1980

VP/MVP:

We are experiencing some printer problems on VP/MVP systems. These problems may be cured by ECN #13176 on the 210-7592 board. The ECN requires the following:

1. Cut Etch between L12 Pin 2 & L28 Pin 11
2. Add a wire between L12 Pin 2 and L12 Pin 9
3. Add a wire between L28 Pin 11 and L12 Pin 8

This ECN raises the E Rev level of the 7592 to 4. All Mutual Benefit Installations must have this ECN.

2273 Band Printer:

There is a new processor board, 726-1105, for the Band Printer. The board has a bank-type band time-out switch loaded in location U69. The switches are as follows:

	TIMEOUT FOR 300 LPM	TIME OUT FOR 600 LPM
S1-1	2.3 seconds	1.8 seconds
S1-2	4.5 seconds	3.5 seconds
S1-3	9.0 seconds	7.0 seconds
S1-4	18.0 seconds	14.0 seconds
S1-5	36.0 seconds	28.0 seconds

If all switches are off, the band will not start. If more than one switch is on, the delay is the sum of each switch.

B. 300 LPM & 600 LPM DIFFERENCES (ELECTRICAL)

CARD COMPLIMENTS ARE IDENTICAL WITH THE EXCEPTION OF AN
ADDITIONAL HAMMER DRIVER P.C.B. AND THE MOTHER BOARD.

300 LPM MOTHERBOARD 726-1103 251995-001 (OEM #)
600 LPM MOTHERBOARD 726-1215 251190   (OEM #)

THE PROCESSOR PROMS LOCATED ON PROCESSOR PCB ARL ALSO
DIFFERENT.

300 LPM PROCESSOR PROMS 726-1217 250531-001 (OEM #)
600 LPM PROCESSOR PORMS 726-1218 257204-001 (OEM #)

3. OTHER DIFFERENCES

A. HAMMER BANK ASSY.

300 LPM   726-1192   244444-001 (OEM #)
600 LPM   726-1210   248023   (OEM #)

B. HAMMER MODULE

300 LPM   726-1135   251704-001 (OEM #)
600 LPM UPPER   726-1208   251704-015 (OEM #)
600 LPM LOWER   726-1209   251704-016 (OEM #)

C. HEADER PLUGS

300 LPM
T & S HEADER KIT   726-1211   257435-001 (OEM #)
HAMMER DRIVER KIT 726-1213   257436-001 (OEM #)

600 LPM
T&D HEADER KIT   726-1212   257435-003 (OEM #)
HAMMER DRIVER KIT 726-1214   257436-003 (OEM #)

4. 2273 Band Printer: There is a bank switch on the Interface
board which allows you to set the bottom of form skip over to
certain lengths. They are as follows:

Switch Bank #2

SW 2	SW3	Skip Over
ON	OFF	0 lines
OFF	OFF	3 lines
ON	ON	4 lines
OFF	ON	6 lines

M-E-M-O-R-A-N-D-U-M

TO: All Area Offices

FROM: Jim Gary

DATE: December 14, 1982

SUBJECT: Forms Control Program

- -

By this time you have found that the Forms Control Program set with
Release 5.1.60 does not work correctly on 5573 printers. Further,
you should have received a copy of Forms Control Program 5.2.14.
There seems some concern on how to get a forms change on this
release. The proper procedure is to do a Top Of Form prior to
acknowledging the forms change.

If there are any questions, please contact me at (617) 275-5730,
extension 432.

                                    Regards,

                                    Jim Gary
                                    Software Support Specialist

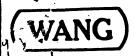
cc: Terry Mongalier
     ATS's
     DTS's

JG:LCM:0953B

VS

5573 SERIAL BAND PRINTER

Below is the way to get the 5573 Band Printer to print at 8 lines per inch on a serial printer. (6/8 switch is not used)

1. FORMCNTL must be set to:
    a.   8 lines per inch
    b.   88 lines per page

2. Use non-conflicting printer scheduling (Print Class)

3. Set user print mode defaults to the proper class, form# & printer

4. Be sure ECNs 14339, 15111, and 15112 are installed.

ON 2200

WANG

ECN

ECN No. 15711

SHEET 1 OF ___2___

DATE __5-22-80__

RFA NO. (REF) _____

ECN NO. 15711

ORIGINATOR	Paul Delvy	DEPT. 16	EXT. 2232	DATE 4/22/80

MODEL NO. 600 LPM '5574 _____ TITLE _____

PART NO.	None	PART NAME (DWG. TITLE)	Processor Board	REV. F T	P.C. REV. FROM TO	ELEC. REV. FROM TO
DWG. NO.						
ASSY. PART NO.		ASSY. TITLE			EFFECTED ☐ NO EFFECT ☐	

DESCRIPTION OF CHANGE

Change the loading of the Microcode on the Processor Board as follows:

LOCATION	FROM	TO
Mem 1	810242-1	250583-1
Mem 2	810242-2	250583-2
Mem 3	810242-3	250583-3
Mem 4	810242-4	250583-4
Mem 5	810242-5	250583-5

RECEIVED

MAY 23 1980

PRINT ROOM

This board is purchased as part of the Data Product printer therefore there is no WLI #

NOTE: Bonded stores and final assembly to conform when parts are in stock

Ref 187-5574 and 167-5574

PRIORITY 1

REASON FOR CHANGE

1 To allow the use of print foldover
2 To allow remote switching between 6/81 pi
3 To allow paper realignment when doing 6/8 switch
4 To allow printing on either buffer full or CR

0984M/94

NEW PURCHASE REQ'D. ☐	SHOP REWORK REQ'D. ☐	VENDOR REWORK REQ'D. ☐

CUSTOMER ENGINEERING	ACKNOWLEDGE	
☐ IMMEDIATE CUST. ☑ CUST. PER NEXT CALL ☐ INFORMATION ONLY ☐ NONE	BY:_____ DATE:_____	☒ MANDATORY CHANGE [ ] DOCUMENTATION CHANGE (PL, BOM, DWG) [ ] EASE OF MFG., COST REDUCTION [ ] PRODUCT IMPROVEMENT

DISPOSITION	Bonded	FINAL ASSY AREA	SUB ASSY AREA	PARTS IN House	PARTS Outside Vendor	Future MFG.
USE AS IS TO PREVIOUS REV.						
TO CONFORM		SEE NOTE				X
TO CONFORM IF NOT BEYOND OPERATIONS EFFECTED						

FINAL APPROVAL _n Lowne 4/18_

APPROVED DESIGN ENGRG. _Paul Delvy_

APPROVED MFG. ENGRG. _D. Caffelse_

WRITTEN BY _Judy Mulns_

·ORIGINATOR

ECN NO. **15111**

(62)

- [ ] FUNCTIONAL CHANGE
- [ ] APPEARANCE/SALEABILITY CHANGE
- [x] SERVICEABILITY CHANGE
- [ ] COST REDUCTION

DOES THIS CHANGE REQUIRE:
- [ ] B.O.M. CHANGE
- [ ] ASSEMBLY PROCESS CHANGES
- [ ] FIXTURE/JIGS/TOOLING CHANGES
- [ ] NC/INSPECTION SOFTWARE CHANGES

EFFECTIVITY CONSIDERATIONS
- [ ] PHASE-IN
  - [ ] EXHAUST AVAILABLE INVENTORY
  - [ ] USE UNTIL NEW PARTS AVAILABLE
  - [ ] TO CONFORM IMMEDIATELY
    - [ ] STOP SHIPMENTS
    - [ ] STOP PRODUCTION
    - [ ] WITH NEW PRODUCT COMMITMENT
    - [ ] OTHER
  - [ ] OTHER
- [ ] IMMEDIATELY (MANDATORY)
  - QTY IN STOCK _____
  - QTY ON ORDER _____
  - VENDOR _____
  - WMS _____

REWORK CONSIDERATIONS
- [ ] VENDOR QTY _____
- [ ] WMS
- [ ] ENG ANNEX QTY _____

OBSOLESENCE
- [ ] OBSOLETE
  - [ ] SCRAP QTY _____
    - UNIT _____
    - TOTAL _____
  - [ ] MAINTAIN FOR CUSTOMER ENGINEERING
    - QTY _____
  - [ ] OTHER

PART / COST INFO

- PART NUMBER _____
- QTY IN STOCK _____
- PART NUMBER _____
- QTY ON ORDER _____
- VENDOR _____
- WMS _____
- UNIT COST _____
- UNIT COST _____
- UNIT COST _____

DISTRIBUTION CONSIDERATIONS

ACK BY _____ DATE _____
DOES THIS CHANGE EFFECT:
- [ ] EXISTING ORDERS
  - [ ] STOP SHIPPING - REWORK
  - QTY ON HAND _____
  - [ ] CONTINUE SHIPPING AS IS

COST ACCOUNTING

ACK BY _____ DATE _____
DOES THIS CHANGE REQUIRE:
- [ ] UNIT COST ADJUSTMENT
- [ ] SUB-ASSY RECOSTING
- [ ] SALE PRICE ADJUSTMENT
- [ ] SCRAP COST
  - UNIT COST _____
  - TOTAL COST _____
- [ ] WRITE-OFF COST
  - UNIT COST _____
  - TOTAL COST _____

PRODUCT PLANNER

ACK BY _____ DATE _____
DOES THE CHANGE EFFECT THE WORK IN PROCESS
- [ ] YES   [ ] NO

PRODUCT SCHEDULER

ACK BY _____ DATE _____
WORK IN PROCESS   SWOP _____
- [ ] CANCEL   QTY _____
- [ ] REVISE
- [ ] ISSUE NEW ORDER

CUSTOMER ENGINEERING
- [ ] REPLACEMENT PARTS
  - REPLACEMENTS
  - WLN # _____
  - QTY _____

KIT STATUS   YES   NO
KIT NO _____   QTY _____
- [ ] CANCEL
- [ ] REVISE
- [ ] ISSUE NEW KIT
- [ ] DE-ALLOCATE

CUSTOMER ENGINEERING

ACK BY _____ DATE _____
DOES THIS CHANGE EFFECT:
- [ ] EQUIPMENT IN THE FIELD
- [ ] HARDWARE UPDATE
  - [ ] IMMEDIATE   [ ] NEXT CALL   [ ] INFO C
- [ ] SOFTWARE UPDATE
  - [ ] IMMEDIATE   [ ] NEXT CALL   [ ] INFO C
- [ ] DOCUMENTATION UPDATE
- [ ] OTHER

COMMENTS

INVENTORY PLANNER   ACK BY _~~Cu~~_   DATE **5/5**

DOES THIS CHANGE REQUIRE:
- [ ] NEW PROCUREMENT
  - WLN _____, REQ # _____, QTY _____
  - P.O.# _____, QTY _____
  - WLN _____, REQ # _____, QTY _____
  - P.O.# _____, QTY _____
- [ ] CANCELLATION/DE-EXPEDITE
  - OPEN ORDER
  - WLN _____, P.O.# _____; QTY _____
  - WLN _____, P.O.# _____; QTY _____
- [ ] REWORK
  - [ ] ENG ANNEX,
    - WLN _____, QTY _____
    - WLN _____, QTY _____
  - [ ] WMS
    - WLN _____, P.O.# _____; QTY _____
    - WLN _____, P.O.# _____; QTY _____
  - [ ] VENDOR
    - WLN _____, P.O.# _____; QTY _____
    - WLN _____, P.O.# _____; QTY _____

4-22

ECN NO. 15112

| ORIGINATOR | Paul Delvy | DEPT. | 16 | EXT. | 2232 | DATE | 4/22/80 |

MODEL NO. 300LPm 5573   TITLE _____

PART NO.	None	PART NAME (DWG. TITLE)	Processor Board Hammer Board	REV. F T	PC.REV. FROM TO	ELEC.REV. FROM TO
DWG. NO.						
ASSY. PART NO.		ASSY. TITLE			EFFECTED ☐	NO EFFECT ☐

DESCRIPTION OF CHANGE

Change the loading of the Microcode proms on the Processor as follows

LOCATION	FROM	TO
Mem 1	810253-1	250584-1
Mem 2	810253-2	250584-2
Mem 3	810253-3	250584-3
Mem 4	810253-4	250584-4
Mem 5	810253-5	250584-5

Replace the plug jumpers on the timing and status P.C.B.
    Location J4
        From 81018-001 Rev B
        To   81018-003 Rev C

    Location J2
        From 810106-001A
        To   810106-003C

RECEIVED

MAY 23 1980

PRINT ROOM

This board is purchased as part of the Data Product printer
therefore there is no WLI #

REASON FOR CHANGE
* NOTE: Bonded stores and final assembly to conform when parts are in stock
    1 To allow 255 lpm printing to increase to 290 lpm
    2 To allow the use of print foldover
    3 To allow remote switching between 6/8 lpi
    4 To allow paper realignment when doing 6/8 switch
    5 To allow printing on either buffer full or CR

0985M/94

| NEW PURCHASE REQ'D. | ☐ | SHOP REWORK REQ'D. | ☐ | VENDOR REWORK REQ'D. | ☐ |

CUSTOMER ENGINEERING	ACKNOWLEDGE	[X] MANDATORY CHANGE
☐ IMMEDIATE CUST. ☒ CUST. PER NEXT CALL ☐ INFORMATION ONLY ☐ NONE	BY:_____ DATE:_____	[ ] DOCUMENTATION CHANGE (PL, BOM, DWG) [ ] EASE OF MFG., COST REDUCTION [ ] PRODUCT IMPROVEMENT

DISPOSITION	Bonded	FINAL ASSY AREA	SUB ASSY AREA	PARTS IN House	Outside Vendor	Future MFG.
USE AS IS TO PREVIOUS REV.						
TO CONFORM	SEE NOTE			X		
TO CONFORM IF NOT BEYOND OPERATIONS EFFECTED						

FINAL APPROVAL Paul Nickle 5/1c. N Lowrie 4/18

APPROVED DESIGN ENGRG. Paul Delvy

APPROVED MFG. ENGRG. D. Caffelde

WRITTEN BY Judy Mulroe

Replace the plug jumper on the Hammer Driver board as follows:

    Location J18
        From 257436-001
        To   810107-004C

Ref 187-5573 and 167-5573

ORIGINATOR

ECN NO. 15112

(62)

- [ ] FUNCTIONAL CHANGE
- [ ] APPEARANCE/SALEABILITY CHANGE
- [ ] SERVICEABILITY CHANGE
- [ ] COST REDUCTION

DOES THIS CHANGE REQUIRE:
- [ ] B.O.M. CHANGE
- [ ] ASSEMBLY PROCESS CHANGES
- [ ] FIXTURE/JIGS/TOOLING CHANGES
- [ ] NC/INSERTION SOFTWARE CHANGES

EFFECTIVITY CONSIDERATIONS
- [ ] PHASE-IN
    - [ ] EXHAUST AVAILABLE INVENTORY
    - [ ] USE UNTIL NEW PARTS AVAILABLE
    - [ ] TO CONFORM IMMEDIATELY
        - [ ] STOP SHIPMENTS
        - [ ] STOP PRODUCTION
        - [ ] WITH NEW PRODUCT COMMITMENT
        - [ ] OTHER
    - [ ] OTHER
- [ ] IMMEDIATELY (MANDATORY)
    - QTY IN STOCK _____
    - QTY ON ORDER _____
    - VENDOR _____
    - WMS _____

REWORK CONSIDERATIONS
- [ ] VENDOR QTY _____
- [ ] WMS _____
- [ ] ENG ANNEX QTY _____

OBSOLESENCE
- [ ] OBSOLETE
    - [ ] SCRAP QTY _____
        - UNIT _____
        - TOTAL _____
    - [ ] MAINTAIN FOR CUSTOMER ENGINEERING
        - QTY _____
    - [ ] OTHER

PRODUCT PLANNER

ACK BY _____ DATE _____
DOES THE CHANGE EFFECT THE WORK IN PROCESS
- [ ] YES   [ ] NO

PRODUCT SCHEDULER

ACK BY _____ DATE _____
WORK IN PROCESS   SWO# _____
- [ ] CANCEL   QTY _____
- [ ] REVISE
- [ ] ISSUE NEW ORDER

CUSTOMER ENGINEERING
- [ ] REPLACEMENTS PARTS
    - REPLACEMENTS
    - WLN # _____
    - QTY _____

KIT STATUS   YES   NO
KIT NO _____   QTY _____
- [ ] CANCEL
- [ ] REVISE
- [ ] ISSUE NEW KIT
- [ ] DE-ALLOCATE

INVENTORY PLANNER   ACK BY _Cu_   DATE _5/E_

DOES THIS CHANGE REQUIRE:
- [ ] NEW PROCUREMENT
    - WLN _____ , REQ # _____ , QTY _____
    - P.O.# _____ , QTY _____
    - WLN _____ , REQ # _____ , QTY _____
    - P.O.# _____ , QTY _____
- [ ] CANCELLATION/DE-EXPEDITE
    - OPEN ORDER
    - WLN _____ , P.O.# _____ ; QTY _____
    - WLN _____ , P.O.# _____ ; QTY _____
- [ ] REWORK
    - [ ] ENG ANNEX,
        - WLN _____ , QTY _____
        - WLN _____ , QTY _____
    - [ ] WMS
        - WLN _____ , P.O.# _____ , QTY _____
        - WLN _____ , P.O.# _____ , QTY _____
    - [ ] VENDOR
        - WLN _____ , P.O.# _____ , QTY _____
        - WLN _____ , P.O.# _____ , QTY _____

MFG ECN COORDINATOR   ACK BY _____ DATE _____

PART NUMBER _____   UNIT COST _____
QTY IN STOCK _____
PART NUMBER
    QTY ON ORDER _____
        VENDOR _____   UNIT COST _____
        WMS _____   UNIT COST _____

DISTRIBUTION CONSIDERATIONS

ACK BY _____ DATE _____
DOES THIS CHANGE EFFECT:
- [ ] EXISTING ORDERS
    - [ ] STOP SHIPPING - REWORK QTY ON HAND
    - [ ] CONTINUE SHIPPING AS IS

COST ACCOUNTING

ACK BY _____ DATE _____
DOES THIS CHANGE REQUIRE:
- [ ] UNIT COST ADJUSTMENT
- [ ] SUB-ASSY RECOSTING
- [ ] SALE PRICE ADJUSTMENT
- [ ] SCRAP COST
    - UNIT COST _____
    - TOTAL COST _____
- [ ] WRITE-OFF COST
    - UNIT COST _____
    - TOTAL COST _____

CUSTOMER ENGINEERING

ACK BY _____ DATE _____
DOES THIS CHANGE EFFECT:
- [ ] EQUIPMENT IN THE FIELD
- [ ] HARDWARE UPDATE
    - [ ] IMMEDIATE   [ ] NEXT CALL   [ ] INFO O:
- [ ] SOFTWARE UPDATE
    - [ ] IMMEDIATE   [ ] NEXT CALL   [ ] INFO O:
- [ ] DOCUMENTATION UPDATE
- [ ] OTHER

COMMENTS

2273

WANG LABORATORIES, INC.

5573/5574

There is a new serial interface for the band printer (5572, 5574). It comprises of two boards (210-7519, 210-7520). These two boards replace the Black Box. Here is some preliminary information:

1. Switch Settings: (210-7520)
    Switch Bank 1 (located 2/3rds to the right, in the center) is equivalent to the switch on the I/O board of the PIO (210-7446). SW1-3 should be ON and the others OFF.
    Switch Bank 2 (bottom left hand corner) is the same as the switch on the CPU board of the PIO (210-7348). Switch 2-1 & 2 should be OFF, the rest ON.

2. New processor microcode automatically decodes lower case characters to upper case if the printer has a 64 character band. (ECN 15111 for 600 LPM and ECN 15112 for 300 LPM).

3. SW3-4, on the Centronics interface board, should be ON if new processor microcode is installed. If the old processor PROMS are used, this switch should be in the OFF position.

4. The two sockets (J1 and J2) on the bottom of the 210-7520 should be facing downward. According to Manufacturing, some of these boards have been sent out with the sockets facing upward. Boards with this error should be corrected by unsoldering both sockets, sockets reversed, and resoldering them correctly.

5. Refer to PSN III.C.10-1 for Centronics interface switch settings for either serial or parallel operation.

PARALLEL TO SERIAL KIT 206-3046

III.C.10
    PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

    TOPIC: BAND MOVEMENT FAILURES

        The following procedures are critical when servicing a
    printer which is experiencing a band movement.

        1.   Cleaning the platen, band and rubber on pulleys (both
              idler and drive) will solve 95% of the band movement
              faults. All cleaning should be done with alcohol
              pads. If the cleaning procedure does not solve the
              problem then steps two and three must be taken.

        2.   Paper clamp solenoid face plate adjustment. Gap
              setting for this adjustment has been changed from .40
              to .45 +.12 -0.

        3.   Band idler tracking adjustments. This adjustment is
              factory set however, when to much pressure on the
              idler tracking bearing is present, adjustment should
              be done Ref. 300 LPM Manual (DPC 245058B).

        A method of determining if an excess amount of pressure on
    guide bearing is as follows:

        a.   Enable print inhibit switch, open hammer bank and
              disable band cover interlock switch.

        b.   Place the printer on line and in self test mode. At
              this point band should be turning.

        A very slight amount of pressure on edge guide bearings
    should stop motion of bearing. If bearing continues to spin,
    band idler tracking adjustment is necessary.

I.A.1

GENERAL INFORMATION-PROCEDURAL-PARTS/PRICE/TOOL LISTS &
PROCEDURES.

TOPIC: CRIMP TYPE BNC & TNC CONNECTOR TOOLS

New crimp type BNC and TNC connectors are being used on all
serial device cables now being shipped from manufacturing. To
enable field personnel to fit these when required, two new tools
are now available. They will be supplied initially on a per
office basis and eventually on a per engineer basis.

The tools are: AMP hand crimp tool & die - WLI #726-9723
                        PALADIN 3 blade stripper - WLI #726-9724
                        (spare blade cassettes for stripper) WLI#
                        726-9725)

The part numbers for the crimp-type BNC & TNC connectors are:

                        TNC crimp-on: WLI # 350-2113
                        BNC crimp-on: WLI # 350-2114

Further documentation will be distributed in the near
future. If you have any problems regarding the supply of these
items, please call Peter Norton in Lawrence X6168

2273

III.C.10
    PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

    TOPIC:__FAILURE_CODE_47_(38V_FAULT)

        Data products has made some changes to the hammer drive PCB
    to correct this problem. The reason for the problem is the
    HWAFO signal level could go below the 6.2 ref. voltage of the
    hammer fire detection pp-amp. When no hammers are firing and an
    open hammer coil occurs, a 38V fault occurs. The fault can also
    occur during power up on master clear.

        In order to correct this problem change the value of R2, R3
    and R4 on the hammer drive PCB from 33K 5% to 15K 5%.

III.C.13
    PERIPHERALS-PRINTERS/PLOTTERS-IMAGE PRINTER 211 (IP 41).

    TOPIC:__DEFECTIVE_MASTERS

        Engineering has discovered a batch of Royal masters that
    are defective. The defective masters batch number is 012209F11
    and are packaged in a white box with red lettering.

The problem is the masters are 1/16 of an inch longer on one side
than the other. Symptoms of the problems encountered concern the
print quality. They are:

    1. Very light print.
    2. Blurred print.
    3. Faded print.
    4. Broken up print.
    5. No print at all on the defective area of the master.

The bad masters can be easily recognized by observing the travel of
the masters on the master carriage, one side will bow upward.

The problems that occur can be mistaken for optic, xerographic
function, or mechanical problems.

If you have masters from this batch, return them to the place of
purchase for exchange. If you have any questions, please call TAC.

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: BAND PRINTER MICROCODE PROBLEM P/N 726-1221 AND 726-1222)

Band printer microcode proms (P/N 726-1221 & 726-1222) are no longer on hold. These parts have been released for the following reason.

A very small portion of the installed base will be affected, however, all field personnel should be aware of the symptom.

When down loading the DAVFU memory on models 2273 & 2274, if a HEXOB statement is used, paper will continuously feed out of printer.

Negotiations to resolve this problem are presently being conducted with Data Products.

Ordering information and P/N's will be provided when available.

III.C.10 - PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND
         PRINTER.

         TOPIC:__PARTS_NEEDED_FOR_CONVERSION_OF_PARALLEL_VERSION
         BAND_PRINTER_2273-1,_2273-2_TO_SERIAL_VERSION_5573,_5574.

         PART NUMBER   DESCRIPTION QUANTITY

         1. 220-0148   Cable coaxial 25'   (1)
         2. 279-0421   PCB/Assy.   (1)
         3. 279-0429   Interface Conn.   (1)
         4. 541-5003   Back Cover   (1)
         5. 452-0192   Ground Plate Assy. (1)

         All of the above parts may be ordered under one number
         (205-3049).

                 206-3046   PARALLEL TO SERIAL KIT

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: 5574 CPU & MEMORY MOTHERBOARD

Some 7519 PCB's have been reaching the field with ECN# 13751 installed incorrectly.

Symptoms: Unable to load microcode, get format errors.

Look at L41, Pin 6. The wire or etch should go to an R.C. Network between A 2.2K ohms and A 33k ohms resistor. L41 pin 7 should go to L41 pin 4. This is the correct wiring. If you find this reversed, just swap L41 pin 6 to pin 7 and vice versa.

Also, some 15 M.F. filter capacitors have been installed backwards on 7519 CPU and memory motherboards and on 7520 data link & printer controllers, D3.

Look at the caps before plugging a new board in and reverse them if necessary.

CUSTOMER ENGINEERING
TECHNICAL ASSISTANCE CENTER
NEWSLETTER

#10324

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: BAND PRINTER HAMMER BANK ASSEMBLY FLIGHT TIME ADJUSTMENT

Part Numbers	B-300	726-1192	Hammer bank assembly
	B-600	726-1208	Upper hammer bank
		726-1209	Lower hammer bank
		726-1112	Adjustment screw

A number of cases involving the breaking of flight time
adjustment screws have been reported to the Home Office. These
flight time adjustment screws are very delicate and extreme
caution should be exercised when performing this adjustment.

Please take note of the following points.

A.   Make absolutely sure you are turning the correct
      adjustment screw for the test point you are on.

B.   Adjustment screws have a very limited amount of
      travel. (Do not force screw).

C.   If any adjustment screw should break, DO NOT DRILL
      OUT. Heat the tip of a smaller allen wrench and embed
      into broken plastic. Let cool for a few moments and
      try to remove the remainder of screw. If this
      procedure fails, replace with a new assembly and send
      the old assembly to the Home Office for repair.

II.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: DEFECTIVE LATCH ASSEMBLY & KEEPER B300/B600

        THE CURRENT LATCH ASSEMBLY ON THE OPERATOR DOOR IS STRIKING
THE RIBBON CARTIDGE WHICH CAUSES THE CARTRIDGE TO CRACK. IN
ADDITION TO THIS, THE OPERATOR DOOR WILL NOT LOCK EASILY CAUSING
OPERATOR FRUSTRATION. IN ORDER TO CORRECT THIS PROBLEM A NEW
LATCH AND KEEPER ASSEMBLY HAS BEEN DESIGNED. THE TWO PARTS WILL
BE SHIPPED AS A KIT AND WILL HAVE THE FOLLOWING PART NUMBER
ASSIGNED: #726-1702, OEM #267451-001.

        INSTALLATION INSTRUCTIONS WILL BE AVAILABLE AT A LATER DATE
IN PRODUCT SERVICE NOTICE FORM.

III.C.10
    PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

    TOPIC: PARALLEL 2273, 2273-2, AND SERIAL 5573, 5574 SWITCH
            SETTING DIFFERENCES ON 726-1108 OEM P/N 257265-1:
            BAND PRINTER CENTRONICS INTERFACE PCB.

        As called out in Product Service Notice III.C.10-3,
    page 7, the four switches on the interface PCB 726-1108 for
    serial interface band printers 5573 and 5574 should be set
    as follows:

        S1: Switch 4 ON   All others OFF

        S2: Switches 2, 7 and 8 ON   All others OFF

        S3: Switch 4 ON   All others OFF

        S4: All switches OFF

        As called out in ECN 19706, the above four switches
    are set as follows when used in a parallel band printer
    interface 2273-1 and 2273-2:

        S1: Switch 3 ON   All others OFF

        S2: Switch 7 ON   All others OFF

        S3: Switch 1 & 2 ON   All others OFF

        S4: Switch 5 ON   All others OFF

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: DEFECTIVE HAMMERBANK BACKSTOP SCREWS

Data Products has discovered a process problem with hammerbank backstop screws.

SYMPTOM·   The symptom may be recognized as either a missing or horizontally misregistered character on the first dozen lines of print. The symptom may occur after an hour period of inactivity in either idle or powered down mode.

CAUSE·   Material used in the manufacture of backstop screws bonds itself to the hammer module, thereby causing a restriction in flight for a short period of time.

FIX·   A unit exhibiting this symptom may be corrected by replacing the backstop screw associated with the failing column.

NOTE·   There is no visual method of differentiating between a non-defective backstop screw and the defective type. However, all backstop screws in spares are of the non-defective type.

III.C.10
    PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

    TOPIC:__NEW_POSITIVE_BAND/RIBBON_DRIVE_FOR_B300/B600_AND_
           MISCELLANEOUS_NEW_PART_NUMBERS

                    Data Products Band Printer

        Data Products has introduced several major improvements to
    the band and ribbon drive systems. These changes have been
    incorporated to improve print quality, product performance and
    reliability.

    1.   New_Band_Drive_Motor   OEM #263476-001 WLI #726-1728

          A new band drive motor containing a larger armature mass
          within the motor provides increased torque to the band
          system.

          Present drive assemblies require shimming in order to
          perform the final mechanical adjustments for band edge
          loading.

          The new motor assembly utilizes a single spring loaded
          screw adjustment.

    2.   New_Band_Drive_Pulleys   OEM #257570-001 WLI #726-1729

          The band drive system will utilize one piece rubber coated
          solid steel pulleys versus the old two piece type.

          This design enhancement improves band stability thereby
          improving horizontal print registration.

          Also the magnetic transducer sync output is stabilized
          which eliminates miscellaneous band sync faults.

          Note: Idler and drive pulleys are identical, therefore
                    one WLI part number is assigned.

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: NEW POSITIVE BAND/RIBBON DRIVE FOR B300/B600 AND
       MISCELLANEOUS NEW PART NUMBERS (CONTINUED)

3.   New Band Idler Assembly OEM# 263006-001, WLI# 726-1738

The band idler assembly has been redesigned to improve
horizontal print registration.

A new band release handle allows the band idler and spring
assembly to ride on two rails which run parallel to the
throat gap.

Another major feature of the new idler assembly is the
simple one screw adjustment for band tracking and edge
guide load.

4.   New Positive Ribbon Drive

Ribbon drive belt tension arm OEM# 263477-001 WLI#726-1739
Ribbon drive tension arm spring OEM# 263363-001 WLI#726-1740
Ribbon drive pulley OEM# 263458-001 WLI#726-1737
Ribbon drive belt OEM# 801669-006 WLI# 726-1730
Ribbon drive assembly OEM# 263455-01 WLI# 726-1731

The ribbon drive system has been changed from the present
O-Ring friction belt drive to a new 132 tooth belt. The
band motor pulley and ribbon drive pulley have been changed
to use the new belt.

A positive ribbon drive system results due to the
interlocking characteristics of the pulley and belt.

Another major feature of the drive assembly is a spring
loaded ribbon belt idler. This provides for self-adjusting
which automatically compensates for varying loads on the
ribbon drive system by applying proper tension to the
ribbon drive belt at all times.

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: NEW POSITIVE BAND/RIBBON DRIVE FOR B300/B600 AND
         MISCELLANEOUS NEW PART NUMBERS (CONTINUED)

5.   Ribbon Movement Sensors   OEM #267372-001 WLI #726-1727

      A new harness assembly has been incorporated in the ribbon
      drive system.

      Both the ribbon movement and ribbon jam sensor are part of
      this assembly.

      The new addition is the ribbon jam sensor which shares the
      06 status display with the ribbon motion fault.

6.   New Common Timing & Status PCB OEM #263080-001 WLI#726-1107

      A new timing and status PCB is presently in use on all
      B300/B600 Data Products band printers.

      A portion of the circuitry design has been changed, however
      the newer type timing and status PCB is electrically
      compatible with all the older versions.

      Note: *When new type timing and status PCB
                 (263080-001)is used on Model B600 (5574/2273-2),
                 a new set of headers must be used (see parts
                 listing below).

                          Part Numbers

WLI #	PCB OEM #	B300 Header Kit LOC J2 & J4		B600 Header Kit LOC J2 & J4	
726-1107	263080-001	257435-002	(WLI	*257435-005	(WLI
726-1107	257520-001	257435-002	P.N.	257435-003	P.N.
726-1107	257325-001	257435-002	listed	257435-003	listed
726-1107	251185-001	257435-002	below)	257435-003	below)

      All timing and status PCB's are electrically compatible
(with the exception of headers J2 and J4), therefore one WLI
part will be used.

III.C.10
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: NEW POSITIVE BAND/RIBBON DRIVE FOR B300/B600 AND
        MISCELLANEOUS NEW PART NUMBERS (CONTINUED)

The following is a part number breakdown of all timing and
status header kits in use.

B-300/Timing & Status Headers

OEM Kit #	OEM # on header J4	OEM # on header J2	WLI #	Usage/ Firmware/ Proms
1. 257435-001	810108-001 *251175-001	810106-001 *247980-001	726-1211	726-1217
2. 257435-002	810108-003 *251175-003	810106-003 *247980-003	726-1223	726-1221

B-600 /Timing & Status Headers

OEM Kit #	OEM # on header J4	OEM # on header J2	WLI #	Usage/ Firmware/ Proms
1. 257435-003	810108-004 *251175-004	810106-004 *247980-004	726-1212	726-1218/ 726-1222
2.**257435-005	810108-006 *251175-006	810106-004 *247980-004	726-1726	726-1218/ 726-1222

*Alternate Part Number

**Note: Use only in 263080-001 timing and status PCB in Model
        (5574/2273-2). All remaining kits can be used in any
        timing and status PCB.

B-300 Hammer Drive Header

OEM Kit #	#On Header (Loc J18)	WLI#	Usage/ Firmware/ Proms
1. 257436-001	810107-001 *247981-001	726-1213	726-1217
2. 257436-002	810107-003 *242981-003	726-1224	726-1221
3. 257436-004	810107-004 *247981-002	726-1224	726-1221

III.C.10
   PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

   TOPIC: NEW POSITIVE BAND/RIBBON DRIVE FOR B300/B600 AND
          MISCELLANEOUS NEW PART NUMBERS (CONTINUED)

                     B-600 Hammer Drive Header

1. 257436-003   810107-002   726-1214   726-1218/
                                                         726-1222
                  *247981-002

*Alternate Part Number

All above kits may be used on either 726-1101 and 726-1205
hammer drive PCB.

7.   New Common Power Board B300/B600 OEM# 263040-001 WLI# 726-1219

     Since the removal of the right hand solenoid eliminates the
     need for three solenoid clamp connectors on the circuit card,
     the new power PCB is equipped with only two.

     The new power also contains some new circuitry which
     eliminates the use of discrete transistors.

     If the new power PCB is used in a unit with three solenoids,
     the right hand cable must remain disconnected.

     Existing power boards may be used in new printers with two
     solenoids, however, the right hand solenoid connector
     requires the use of a jumper plug.

     Note: Data Products does not install jumpers in locations
           W3 and W6 (263040-001 only) when PCB is shipped as a
           spare parts item.

     When receiving a new type power PCB from the Home Office, be
     certain locations W3 and W6 contain jumpers.

III.C.10
    PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

    TOPIC: NEW POSITIVE BAND/RIBBON DRIVE FOR B300/B600 AND
             MISCELLANEOUS NEW PART NUMBERS (CONTINUED)

    8.   Bottom of Form Guide OEM #257454 WLI #726-1736

          A bottom of form guide is available for all Data Product band
          printers. This guide, a self-adhesive strip of mylar, attaches
          to the left-hand paper feed sprocket and extends downward along
          the left side of the print station.

          Its function is to help maintain uniform paper positioning when
          the last form is no longer held in place by the paper clamps.

    9.   Misc New Parts Listings

	Description	OEM #	WLI #
A.	Paper out switch assembly B300	246381-002	726-1732
B.	Paper out IC Hall effect B600	810205-001	726-1733
C.	Paper out harness and IC ass'y B600	251127-002	726-1734
D.	Cap pack aux. B600	251086-001	726-1735
E.	Latch & keeper kit	267451-001	726-1702
F.	Filter line 10 amp	-------	726-1220
G.	Paper guide clip	247963-001	726-1225
H.	Hinge door left	242580-001	726-1226
I.	Hinge door right	242580-002	726-1227
J.	Terminator PCB (parallel only)	257344-001	726-1228
K.	Static paper eliminator kit	-------	728-0006
L.	Cover printer w/foam & hard	257438-001/263388/201	726-1741
M.	Door printer w/foam and hard	257416-001/251120-200	726-1742
O.	Paper deflector	257219-001	726-1743
P.	Ground Brush	251846-001	726-1744

VI.A.1
VS SYSTEMS-MAINFRAMES-VS 60/80, WCS 60/80, VS (B).

TOPIC: PRINTER PROBLEMS WHEN GOING FROM O.S. 5.00.XX TO 5.01.XX

The VS 5.00.XX O.S. forms definition file (FORMDFFN in
@SYSTEM@) is not completely compatible with 5.01.XX Operating
System Releases. There have been reports of 5573 and 5574 Band
Printer problems such as printers stopping in the middle of a
printout, the wrong number of lines per page being printed or an
incorrect number of lines per inch being printed. If Band
Printer problems of this type are experienced under a 5.01.XX
O.S., the following procedure should resolve them.

Run FORMCNTL in @SYSTEM@ and review all the defined forms.
Press PF9 to modify each form, and then (without modifying
anything) press ENTER to rewrite the form record. This
will cause the record to be rewritten properly. Do the
above for each defined form.

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TECHNICAL ASSISTANCE CENTER
NEWSLETTER

#21116

III.C.10
    PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

    TOPIC: DEFECTIVE PAPER FEED PULLEY FLANGE WLI P/N 726-1148 OEM
            P/N 246240-001

        A problem with the paper feed pulley has been identified.
    The inboard flange either shatters or breaks loose.

        A new pulley which is white in color is presently available.

        The new pulley has a grip ring on the inboard flange which
    prevents the flange from breaking loose.

        The new pulley will be issued under the current WLI P/N
    which is listed above.

III.C.10 (3308)
PERIPHERALS-PRINTERS/PLOTTERS-DATA PRODUCTS BAND PRINTER.

TOPIC: DATA PRODUCTS 300 LPM & 600 LPM RIBBON DRIVE PIVOT ARM
        ASSEMBLY (PART #726-1203)

When ordering a pivot arm assembly (part #726-1203), be
aware that the return spring does not come with the pivot arm
assembly.

In the event a pivot arm return spring is required, order
spring and retaining ring pack part #726-1163.

All the necessary hardware to install the pivot arm
assembly will be contained in this package.

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PERIPHERALS-PRINTERS/PLOTTERS-DATAPRODUCTS

TOPIC: TIMING & STATUS PCB/J2 & J4 HEADER INFORMATION

The purpose of this newsletter is to update a previous
newsletter (#20720) with information regarding the strapping of
headers J2 and J4.

A new timing and status PCB is presently in use on all
B300/B600 Data Products band printers.

A portion of the circuitry design has been changed, however
the newer type timing and status PCB is electrically compatible
with all the older versions.

NOTE: *When new type timing and status PCB (263080-001)is
           used on Model B600 (5574/2273-2), a new set of
           headers must be used(see parts listing below).

Part Numbers

WLI #	PCB OEM #	B300 Header Kit LOC J2 & J4		B600 Header Kit LOC J2 & J4	
726-1107	263080-001	257435-002	(WLI	*257435-005	(WLI
726-1107	257520-001	257435-002	P.N.	257435-003	P.N.
726-1107	257325-001	257435-002	listed	257435-003	listed
726-1107	251185-001	257435-002	below)	257435-003	below)

All timing and status PCB's are electrically compatible
(with the exception of headers J2 and J4), therefore one WLI
part will be used.

The following is a part number breakdown of all timing and
status header kits in use.

B-300/Timing & Status Headers

OEM Kit #	OEM # on header J4	OEM # on header J2	WLI #	Usage/ Firmware/ Proms
1. 257435-001	810108-001 *251175-001	810106-001 *247380-001	726-1211	726-1217

Header wiring:

	J4			J2	
1	to	24	1	to	2
3	to	23	2	to	5
5	to	21	3	to	9
6	to	20	4	to	14
7	to	19	5	to	6
8	to	18	6	to	11
9	to	16	7	to	12
11	to	13	8	to	15
12	to	14			

2.   257435-002   810108-003   810106-003   726-1223 726-1221
                    *251175-003   *247980-003

Header wiring: J4   J2
                        1   to   24   1   to 2
                        3   to   23   2   to 5
                        5   to   21   3   to 9
                        6   to   20   4   to 14
                        7   to   19   5   to 11
                        8   to   17   6   to 13
                        9   to   16   7   to 8
                       12   to   13   7   to 9
                       13   to   18

                B-600 /Timing & Status Headers

OEM Kit #	OEM # on header J4	OEM # on header J2	WLI #	Usage/ Firmware/ Proms
1. 257435-003	810108-004	810106-004	726-1212	726-1218/ 726-1222
	*251175-004	*247980-004		

Header wiring: J4   J2
                        2   to   24   1   to 12
                        3   to   22   2   to 11
                        4   to   21   2   to 3
                        6   to   12   3   to 4
                        8   to   11   5   to 6
                        9   to   15   6   to 13
                       10   to   19   7   to 10
                       13   to   17   8   to 9

2.**257435-005	810108-006	810106-004	726-1726	726-1218/ 726-1222
	*251175-006	*247980-004		

Header wiring: J4   J2
                        2   to   12   1   to 12
                       #3   to   22   2   to 11
                        4   to   21   2   to 3
                        6   to   20   3   to 4
                        8   to   11   5   to 6
                        9   to   15   6   to 13
                       10   to   19   7   to 10
                       13   to   17   8   to 9
                     ##22   to   24

  # 36.5K resistor
 ## 40.2K resistor

*Alternate Part Number

**Note: Use only in 263080-001 timing and status PCB in Model
          (5574/2273-2). All remaining kits can be used in any
          timing and status PCB.

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PERIPHERALS-PRINTERS/PLOTTERS-DATAPRODUCTS

TOPIC: POSI-DRIVE, RIBBON SLIP-CLUTCH ASSEMBLY

Dataproducts has introduced a Slip-Clutch for use in the Posi-Drive ribbon systems. This includes all B-series Band Printers with the following Wang model designations 2273-1, 2273-2, 5573 and 5574.

The new Slip-Clutch is designed to disengage drive to the ribbon in any condition which might affect normal ribbon stuffing.

The early type Slip-Clutch assembly (silver in color) has been found to be defective and will fail after a very short period of operation.

A newer type Slip-Clutch assembly has been designed (brass in color) as a replacement for the earlier defective Slip-Clutch.

Documentation reflecting the changes involving the newer type Slip-Clutch assembly will be incorporated into the Dataproducts service manuals. The OEM and WLI part numbers for the new Slip-Clutch are as follows: OEM 800295-019 and WLI 726-1554. When ordering the Slip-Clutch assembly, use only the OEM numbers until May 1, 1984. The 726 series number assigned to the Slip-Clutch will not be on the corporate data base until May 1, 1984.

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PERIPHERALS-PRINTERS/PLOTTERS-DATAPRODUCTS

TOPIC: UPGRADE FOR 5574 PRINTER TO 5574-1

An upgrade from the existing model 5574 Band Printer to
model 5574-1 Band Printer will be available soon. It will
incorporate 64K of memory to allow installation on an Alliance
system.

Upgrade Kit Number   206-1296
Documentation part number is: 729-0438-A1
                                  Publication Update Bulletin

The bulletin describes how to install hardware in the 5574
Band Printer for use on the Alliance system. Once the hardware
is installed, this printer requires a minimum release level of
4.N peripherals for Alliance and 6.4 peripherals for OIS. This
will be a controlled released to ATOMs only and must be acquired
on a per customer basis. VS release will follow in FY85 Q2.

<u>The device type for this printer is 314</u>
Switch settings: *Switch (SW 1) (1, 2, 3, 5, 7, and 8 "OFF")
on the SIBLINK :   (4 and 6 "ON")*
210-8307A PCB   : *Switch (SW 2) (1, 2, 3, 4, 5, 6, 7, & 8 "OFF")
                  *Switch (SW 3) (1 & 2 "ON") and (3 & 4 "OFF")

The following two PCBs should be added to the original RSL for the
printer. The additional parts list includes all parts that are added
to the original parts list by the upgrade.

<u>5574-1 DataProducts Printer RSL</u>

DESCRIPTION	PCB
Siblink II PCB	210-8307A
Siblink Interface PCB	210-7780

<u>Additional part numbers</u>

DESCRIPTION	CABLE
Siblink Interface power cable	220-2109
DP to Wang interface 40 pin ribbon cable	220-3368
Coax data connector cable assembly	220-2107
Coax to Interface jumper cable	220-2108

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PERIPHERALS-PRINTERS/PLOTTERS-DPC 3000

TOPIC: FCC INTEGRITY FOR THE 5574-1 BAND PRINTER UPGRADE KIT

This TAC Newsletter must be used in conjunction with the Publication Update Bulletin (PUB) when upgrading a 5574 to a 5574-1 Band printer. Only by following these instructions will the 5574-1 Band Printer maintain FCC integrity.

A ground plate (part # 452-0359) will be included in the upgrade kit and must be installed to ensure this printer meets FCC standards.

1.   First install the Siblink upgrade kit by following the instructions in PUB (Part Number 729-0438-A1).

2.   The cable coming from the Forms Control PCB (OEM part number 256440-001) must be plugged into (J1) of the Dataproducts Interface PCB (OEM part number 257265-001), and must be routed down and out to the side between the metal Siblink enclosure and the Dataproducts Interface PCB. It must not go over the Siblink enclosure as shown in figure 6 of the PUB.

3.   The cable coming from the Control panel must be plugged into (J4) of the Dataproducts Interface PCB, and must be routed down and out to the side between the metal Siblink enclosure and the Dataproducts Interface PCB. It must not go over the Siblink enclosure as shown in figure 6 of the PUB.

4.   While facing the printer from the rear, install the ground plate on the printer. Located to the right of the hammer driver PCBs is a screw holding a metal plate to the top of the fan housing that must be removed now and replaced once the ground plate is in place. To orient the ground plate, the large hole in the ground plate, must line up with the large hole in the same metal bracket that the screw was just removed from. This ground plate will be held in place by one screw in the top right of the siblink assembly and the one screw that held the metal plate to the top of the fan housing. This will secure the ground plate from the Siblink enclosure to printer and ensure a positive ground to the Siblink enclosure.

NOTE: To ensure FCC requirements are maintained, you must follow this procedure.

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PERIPHERALS-PRINTERS/PLOTTERS-DATAPRODUCTS

TOPIC: FCO 1108, DATAPRODUCTS

FCO 1108, released September 19, 1984, documents
Dataproducts FCO 6651. One surge resistor is changed in the
B300 pedestal printer. The reason for the change is that the
possibility exists that terminals on the CRT Breaker Surge
Resistor may become loose because of improper crimping. FCO Kit
#728-0130 will be available October 1, 1984. To obtain it,
complete a CEMT form using the instructions outlined in the
FCO. Do not place a routine order for this kit; it will be
cancelled automatically. Distribution of this kit is restricted
to the serial number ranges for units affected.

WANG

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

NUMBER: __HWT 5208__   REPLACES: __N/A__   DATE: __10/15/85__ PAGE __1__ OF __1__

MATRIX ID. __3308__   PRODUCT/RELEASE# __5574-1__

TITLE: __5574-1 Centronics Interface Board Jumper and Siblink Cable Grounding__

PURPOSE:
1. To inform the field the Interface board on the 5574-1 may require a jumper to operate properly.
2. To inform the field that the end of the siblink cable at plug P1 may touch the siblink mounting plate and short to ground.

EXPLANATION:
1. The Centronics interface board in the 5574-1 band printer requires a jumper to IPL properly. The jumper is installed at location U20 pin 5 and runs to J5 pin 1 on the Centronics interface board. This change affects the switch settings. The recommended switch settings for the Centronics interface board are as follows:

Switch Bank	Switch On
1	3
2	4
3	-
4	-
All Other Switches Off	

    This change is also applicable to band printers intended for installation on Alliance systems.

2. The band printer upgrade kit (Part No. UJ-1296) which upgrades 5574 to 5574-1 may have a siblink cable that touches the siblink mounting plate (Wang Part No. 452-0329). This same upgrade can be factory installed and have the same problem. The 40-pin ribbon cable (Wang Part No. 220-3368) which connects J2 of the interface board (210-7780) to plug P1 for the siblink board (210-8307) may ground to the siblink mounting plate. The cable end at plug P1 may extend well past the side of the plug and touch the mounting plate, grounding the signals. To prevent grounding, a length of electricians's tape should be placed in the area on the mounting plate where plug P1 connects to the siblink board. This will prevent grounding the cable end. The Manufacturing process will be changed to ensure this problem will not occur in the future.

GROUP: __Peripheral Hardware Support Group__   MAIL STOP: __0125__

C O M P A N Y   C O N F I D E N T I A L

WANG Laboratories, Inc.

NUMBER: HWI XXXX   REPLACES: N/A   DATE: 01/26/86 PAGE 1 OF 2

MATRIX ID.3308   PRODUCT/RELEASE# B300/600

TITLE: Ribbon Weld Skipover feature

Purpose:
To announce to the field the Ribbon Weld Skipover feature installed on new B300/600 printers. Additionally to distinguish between the old /26-1102 (Interlock Transition board) and the new /26-1102-1 (interlock transition board)

Explanation:
The Ribbon-Weld-Skipover feature causes the printer to accelerate the ribbon-weld-section of the ribbon past the print area and into the ribbon cartridge. Printing is suspended during ribbon movement. This is done to prevent printing on the ribbon weld. This feature works using Dataproducts ribbons only.
A reflective sticker is mounted near the ribbon weld. This sticker is sensed by a sensor mounted on the ribbon guide post, on the right hand side, near the band transducer. Once the weld is past the print area, printing is resumed. The ribbon-weld-skipover feature can be defeated by inserting a jumper in W1 on the Interlock transition board. (726-1102-1)

Construction:
The sensor is mounted on the right hand rear ribbon post. The sensor is cabled to the interlock transition board. At the interlock transition board the cable plugs into J4. The interlock transition card cable is permanently mounted on the circuit card (/26-1102-1).

Operation:
The ribbon weld sensor is composed of two wires seperated by a quarter inch. The reflective strip shorts the two strips to notify the printer the weld section will pass in front of the print area. Printer software then takes over to move the ribbon weld past the print area. The printer then resumes printing once that is accomplished.

Maintenance:
Failures with this new circuit occur due to ink build up between the two shorting strips. Ink deposits conduct enough electrical current to cause activation of the chips on the Interlock Transition board. When this happens the printer fails to print. The printer will ready but no printing will take place. Jumper W1 on the Interlock transition board (726-1102-1) is provided to defeat the ribbon weld skipover feature.

Ribbons:
Wang Direct does not plan to offer to Wang customers ribbons with the ribbon weld skipover feature. Dataproducts has inadvertently shipped some printers with ribbons that have the feature installed. Wang does not recommend the use of these ribbons. Customers are urged to use Wang ribbons on Wang printers.

WANG

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

NUMBER: HWT 6039   REPLACES: N/A   DATE: 03/04/86   PAGE 1 OF 2

MATRIX ID. 3308   PRODUCT/RELEASE# 5573/74

TITLE: Ribbon Weld Skipover Circuit & THE INTERLOCK XSITION BRD

PURPOSE:
To announce to the field the ribbon-weld-skipover circuit installed on new B300/600 printers. Additionally, to distinguish between 726-1102 (Interlock Transition Board) and 726-1102-1 (Interlock Transition Board).

EXPLANATION:
The ribbon-weld-skipover circuit causes the printer to accelerate the ribbon-weld-section of the ribbon past the print area and into the ribbon cartridge. Printing is suspended during ribbon movement. This is done to prevent printing on the ribbon weld. This feature works using Dataproducts' ribbons only.

A reflective sticker is mounted near the ribbon weld. This sticker is sensed by a sensor mounted on the ribbon guide post, on the right-hand side, near the band transducer. Once the weld is past the print area, printing is resumed. The ribbon-weld-skipover circuit can be defeated by inserting a jumper in W1 on the interlock transition board (726-1102-1).

Construction:

The sensor is mounted on the right-hand front ribbon post. The sensor is cabled to the interlock transition board. At the interlock transition, the cable plugs into J4. The interlock transition card cable is permanently mounted on the circuit card (726-1102-1).

Operation:

The ribbon weld sensor is composed of two wires separated by a 1/4 inch. The reflective strip shorts the two strips to notify the printer the weld section will pass in front of the print area. Printer software then takes over to move the ribbon weld past the print area. The printer then resumes printing once that is accomplished.

GROUP: Peripheral Hardware Support Group   MAIL STOP: 0125

WANG

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

NUMBER: HWT 6039   REPLACES: __N/A__   DATE: 03/04/86   PAGE _2_ OF_2_

MATRIX ID. 3308   PRODUCT/RELEASE# 5573/74

TITLE: Ribbon Weld Skipover Feature

EXPLANATION (cont'):

Maintenance:

Failures with this new circuit occur due to ink buildup between the two
shorting strips. Ink deposits conduct enough electrical current to cause
activation of the chips on the interlock transition board. When this
happens, the printer fails to print. The printer will ready but no
printing will take place. Jumper W1 on the interlock transition board
(726-1102-1) is provided to defeat the ribbon-weld-skipover feature.

Ribbons:

Wang Direct does not plan to offer to Wang customers ribbons with the
ribbon-weld-skipover feature. Dataproducts has inadvertently shipped some
printers with ribbons that have the feature installed.

GROUP: Peripheral Hardware Support Group   MAIL STOP: 0125

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TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

NUMBER: HWT 7101   REPLACES: N/A   DATE: 06/30/87 PAGE 1 OF 2

MATRIX ID. 3308   PRODUCT/RELEASE# 5573/4/5 Band Printers

TITLE: Removal of Broken Backstop-Screws

Purpose:
 To inform the field about the correct procedure for removing a backstop-screw. This procedure is applicable to hammerbanks for the 5573, 5574 and 5575 band prinetrs.

Explanation:
 Backstop-screws (sometimes called hammer flight-time screws) are easily removed using the following procedure. This procedure is for Dataproducts hammerbanks (part number 726-1192, 5573; 726-1210, 5574 and 726-3615, 5575). The procedure should be performed with the hammerbank removed from the printer.

 CAUTION: DO NOT ATTEMPT TO DRILL OR USE ANY OTHER DEVICE TO REMOVE BACKSTOP-SCREWS.

 No special tools are required, however a 99-20 allen wrench and soldering iron with the tip removed will aid in the removal of broken backstop-screw.

Procedure:
 1. Heat an 99-20 allen wrench and insert into the end of the broken backstop-screw. This is accomplished as follows:

    The allen wrench can be found in the CE tool bag.

    Remove the soldering tip from the soldering iron and insert the allen wrench into the iron.

    Allow the soldering iron to heat the wrench for several minutes, enough to melt the plastic screw, then insert the wrench into the broken end of backstop screw.

    Allow the allen and screw combination to cool for a minute or so until the plastic has frozen around the allen wrench.

GROUP: Desktop Systems/Peripherals   MAIL STOP: 001-140

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

WANG

NUMBER: <u>HWT 7101</u>   REPLACES: <u>N/A</u>   DATE: <u>06/30/87</u> PAGE <u>2</u> OF <u>2</u>

MATRIX ID. <u>3308</u>   PRODUCT/RELEASE# <u>5573/4/5 Band Printers</u>

TITLE: <u>Removal of Broken Backstop-Screws</u>

<u>Procedure cont'd</u>:

2. Gently turn the allen wrench counterclockwise until the screw is free of the hammer bank.

3. Remove the broken backstop-screw from the allen wrench and discard.

4. Install new backstop-screw and adjust as prescribed in the band printer maintenance manual (5573/4 manual p/n 741-0432 or 5575 manual p/n 729-1272).

GROUP: <u>Desktop Systems/Peripherals</u>   MAIL STOP: <u>001-140</u>

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TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

WANG

NUMBER: HWT 8057   REPLACES: _____   DATE: 06/21/88 PAGE _1_ OF _3_

MATRIX ID. 3308   PRODUCT/RELEASE# 5574-1

TITLE: Centronics Interface Boards Switch Settings

PURPOSE:
   To disseminate Centronics Interface Board switch settings to the field for the 5574-1 printer.

EXPLANATION:
   Although the 5574 and 5574-1 printers are mechanically the same there are electrical and electronic differences. One of those differences is switch settings on the Centronics Interface board. This TSB presents 5574-1 Centronics interface board switch settings only. Switch settings for other Band printers may be found in CE Service Handbook, WL/PN 729-1095-A.

The switch settings provided below, in table 1, are for the 5574-1 Centronics Interface board only and should not be used for any other printer.

Table 1

```
***************************************************************
*  SWITCH  *  SWB 1 *  Description                           *
***************************************************************
** 1 * * off * VFU  on= VFU is installed                     *
** 2 * * off * Paper instruction off when sw 1 is off        *
** 3 * * on  * Data 7/8 lines  on=8                          *
** 4 * * on  * Enable/Disable Buffer Clear on=Hi true        *
** 5 * * off * Enable/Disable Hi/Lo Active State             *
** 6 * * off * Enable/Disable data/parity line               *
** 7 * * off * Enable/disable Paper Instruction line         *
** 8 * * off * Enable/Disable Parity error signal            *
***************************************************************
```

Note: SWB=Switch bank. A row of four/eight switches in same housing.
      Other variations of switch settings may work for a given printer
      environment but not for all environments. These settings work for
      both DP and WP printer environments.

GROUP: Peripherals Support   MAIL STOP: 001-140

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

WANG

NUMBER: HWT 8057   REPLACES: _____   DATE: 06/21/88   PAGE 2 OF 3

MATRIX ID. 3308   PRODUCT/RELEASE# Band Printer

TITLE: Centronics Interface Board Switch Settings

EXPLANATION: (continued)
   Switch settings for other Band printers may be found in CE Service
   Handbook, WL/PN 729-1095-A.

The switch settings provided below, in table 2, are for the 5574-1
Centronics Interface board only and should not be used for any other
printer.

Table 2

```
***************************************************************************
*   SWITCH   *   SWB 2  *  Description                                    *
***************************************************************************
**    1    * *   off    *  Enable/Disable CR and line feed                *
**    2    * *   on     *  sws 2&3 determine line skipover                *
**    3    * *   off    *  See table 3                                    *
**    4    * *   off    *  Enable/Disable printing to bottom of page*
**    5    * *   off    *  Enable/Disable Hi/Lo Active State              *
**    6    * *   off    *  Enable/Disable data/parity line               *
**    7    * *   on     *  Enable/disable Paper Instruction line         *
**    8    * *   on     *  Enable/Disable Parity error signal            *
***************************************************************************
```

Table 3
```
++++++++++++++++++++++++++++++++++++++
+  Sw2  +  Sw3  + Lines skipped    +
++++++++++++++++++++++++++++++++++++++
+  off  +  off  + 3 line skipover +
+  on   +  off  + 0 line skipover +
+  off  +  on   + 6 line skipover +
+  on   +  on   + 4 line skipover +
++++++++++++++++++++++++++++++++++++++
```

GROUP: Peripherals Support   MAIL STOP: 001-140

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

WANG

NUMBER: __HWT 8057__   REPLACES: _____   DATE: __06/21/88__ PAGE _3_ OF _3_

MATRIX ID. __3308__   PRODUCT/RELEASE# __5574-1 Printer__

TITLE: __Centronics Interface Board Switch Settings__

EXPLANATION: (continued)
    Switch settings for switchbanks 3 & 4 are listed below. For detailed
    description of all switches mentioned in this TSB consult Band Printer
    Maintenance manual, Wang p/n 741-0432, pages 2-33 through 2-50.

Table 4
```
*******************************************************************
*   SWB 3 * * Description                                        *
*******************************************************************
**   off  *1* Controls VFU skipover operation                   *
**   off  *2* Controls print when feed command received         *
**   off  *3* Controls double spacing on line fd command        *
**   off  *4* Data Buffer full print control                    *
**   off  *5* Tape read control                                 *
**   off  *6* Not used                                          *
**   off  *7* Not used                                          *
**   off  *8* Not used                                          *
*******************************************************************
```

Table 5
```
*********************************************************
*   SWB 4 * * Description                              *
*********************************************************
**   off  *1* Not used                                *
**   off  *2* Not used                                *
**   off  *3* Not used                                *
**   off  *4* Not used                                *
**   off  *5* Top of Form control during skipover     *
**   off  *6* Not used                                *
**   off  *7* Not used                                *
**   off  *8* Not used                                *
*********************************************************
```

GROUP: __Peripherals Support__   MAIL STOP: __001-140__

TECHNICAL SERVICE BULLETIN
SECTION: HardWare Technical

WANG

NUMBER: __HWT 9032__   REPLACES: _____.   DATE: __02/21/89__ PAGE __1__ OF __1__

MATRIX ID. __3308__   PRODUCT/RELEASE# __5573/74__

TITLE: __Error Code '41' Paper Motion Fault__

PURPOSE:
　　To inform the field of a known cause for paper motion faults when installing the 726-1219 Power board, into the 5573 or 5574 band printer.

EXPLANATION:
　　CSO Repair Strategy has found that the 726-1219 Power board is often returned as defective with "Error Code '41' Paper Motion Fault" indicated on the repair tag. This fault will be generated when one of the paper clamp coils is disconnected from the Power board. The 5573 printer utilizes three paper clamp coils while the 5574 printer uses only two. Therefore, this error occurs most often when installing the Power board into a 5574 printer. Because of this, all 726-1219 Power boards are now shipping from CSO Logistics with a shunt (WLI # 220-2588) installed on connector J-3C. This shunt should be removed prior to installing the board into a 5573 printer. In addition, a two-to-one paper clamp cable (WLI # 220-2588) is also available as a field retrofit for the 5573 printer. With the two-to-one cable installed, it is not necessary to remove the paper clamp shunt.

GROUP: __Desktop Systems/Peripherals Group__   MAIL STOP: __001-140__

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