BELL SYSTEM PRACTICES **Plant Series**

(

SECTION 578-500-701 Issue 3, April 1970 AT&TCo Standard

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"DATASPEED[®]" PRINTER (RECEIVE-ONLY)

ENCLOSURES AND PAPER HANDLING

ADJUSTMENTS AND LUBRICATION

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1. GENERAL

1.01 This section provides the adjustments and lubrication procedures for the maintenance of the cover, base, cabinet, paper unwinder, and paper winder as used in the DATASPEED printer (receive-only). It is being reissued to change the title and to incorporate recent engineering changes. Since it is a general revision, marginal arrows used to indicate changes and additions are omitted. This section was formerly designated 592-820-701, but this number is now cancelled. Since this issue of Section 578-500-701 is a revision of Section 592-820-701, Issue 2, it is designated Issue 3.

CAUTION: REMOVE POWER FROM SET BEFORE CHECKING OR MAKING ADJUST-MENTS UNLESS OTHERWISE STATED.

1.02 The adjustments are arranged in a sequence that should be followed if a complete readjustment of the particular unit were undertaken. In following such a procedure, parts or assemblies that are removed to facilitate adjustments should not be replaced until all other adjustments, which would be facilitated by removal of these parts are made. If any ad-

justment is changed, related adjustments should be checked. Before making any adjustment, read the adjustment instructions thoroughly. After an adjustment is completed, be sure to tighten any nuts or screws which may have been loosened.

1.03 The spring tension values indicated are scale readings which would be obtained when proper scales are used as specified. Springs that do not meet the requirements, and for which no adjusting procedure is given, should be replaced by new ones.

1.04 Check all moving parts to make sure they are free from binds before operating the units under power.

1.05 References to right or left, up or down, frontor rear, apply to the units as viewed when facing them from the front or operators side.

1.06 Parts ordering information can be obtained from Section 578-500-801 (formerly Section 592-820-801). For the tools necessary in making the adjustments, refer to Section 570-005-800.



Typical DATASPEED Printer (Receive-Only)

2. ADJUSTMENTS

2.01 Cover

COVER AND BASE GASKET

Requirement

Bottom surface of cover should be in contact with gasket on base. Cover should compress gasket evenly around perimeter of cover so as to prevent air gaps along entire length of gasket.

To Adjust

With cover latch mounting nuts friction tight and connector mounting nuts friction tight (left side), position cover. Tighten mounting nuts.





NUT-



Page 4



2.03 Cover (continued)

FRONT LID

UPPER

PANEL

SURFACE ALIGNMENT

Requirement

Top surface of front lid (at leading edge) should be within +0.031 inch and -0.031inch from being flush with cover housing.

To Adjust

Position front lid with bracket mounting nuts friction tight. Tighten mounting nuts.

HINGE POST --- PRELIMINARY

Requirement

Front lid should be centered (left to right) in opening as gauged by eye.

To Adjust

With hinge post locknuts loose, turn hinge posts as required to center front lid. Tighten locknuts.



HINGE POST --- FINAL

FRONT LID

Requirement

With front lid held toward either left or right side, endplay between hinge post shoulder and hinge plate should be - Min some---Max 0.010 inch

With lid held toward opposite side, loosen hinge post locknut, and turn hinge post to obtain required endplay. Tighten locknut.

2.04 Cover (continued)

FRONT LID --- UPPER PANEL CLEARANCE

Requirement

With front lid closed and latched, there should be minimum clearance between front surface of front lid and rear surface of upper panel.

To Adjust

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With front lid hinge plate mounting screws loosened, position front lid. Tighten mounting screws.



2.05 Cover (continued)

REAR LID ALIGNMENT

 Requirement
With front and rear lids closed and latched, clearance between front and rear lids should be
Min some---Max 0.047 inch



LATCH BRACKET LATCH

SPRING

To Adjust

Form latch bracket up or down, toward or away from cover, until requirements are met. Check both right and left latches. 2.06 Base



(Left Side View)

Page 9

2.07 Base (continued)

FUNCTION STRIP

(1) Requirement
 Clearance between pushbutton cover bracket and top forward edge of
 lower front panel should be
 Min some---Max 0.094 inch
 undor flush as gauged by eve

under flush, as gauged by eye.

- (2) Requirement Clearance between pushbutton cover bracket and lower front panel should be minimum, as gauged by eye.
- (3) Requirement Function strip pushbuttons should have bind-free operation.
- To Adjust

With function strip assembly mounting screws loosened, position function strip assembly to meet requirements. Tighten mounting screws and check pushbutton operation. Refine adjustment if necessary.





(Top Front View)

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2.09 Cabinet (continued)

TOP PANEL LOCATION

To Check

Engage each slide with its ball bearing assembly on respective track. Push top panel toward rear of cabinet frame until front end of track butts against flange of panel; secure slides with screws. Move panel inward and outward slowly to check for binds.

Requirement

Top panel should be centrally located on cabinet frame from left to right and front to rear. Bottom edge of panel normally clears frame by approximately 1/8 inch. Slides should move freely in their tracks.

To Adjust

With only screws that secure right track loosened, refine requirement (2) of TOP PANEL SLIDE TRACKS (2.08)

by gently closing panel as right track is shifted toward right or left.



TOP PANEL

CABINET FRAME

TOP PANEL LATCH

To Check

Top sliding panel should be in its normally closed position.

Requirement

Clearance between latch slide and engaging surface should be Min flush---Max 0.015 inch ----

To Adjust

With catch mounting screws loosened, position catch. Tighten screws.

2.10 Cabinet (continued)

TOP PANEL (REAR SECTION)



SECTION 578-500-701

2.11 Cabinet (continued)

HIGH VOLTAGE INTERLOCK — OVERRIDE SWITCH



SLACK ARM ROLLER

Requirement

Slack arm roller should be free to rotate.

To Adjust



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(Left Side View)

Page 14.1 Added, October 1970



2.13 Paper Unwinder (continued)

SLACK ARM STOPS - PRELIMINARY (Early Design)

To Check

Paper spindle should be empty and slack arm should be in rest position.

Requirement

-Clearance between slack arm and paper spindle supports (right and left) should be approximately 3/8 inch.

To Adjust

With lower slack arm stop mounting nut loosened, position lower slack arm stop (adjust right and left stops). Tighten mounting nut.

--- SLACK ARM STOPS --- FINAL (Early Design)

To Check

Paper spindle should be empty and slack arm should be in rest position.

Requirement

With slack arm depressed, deflection from rest position should be no more than 3 inches.

To Adjust

With upper slack arm stop mounting nut loosened, position upper slack arm stop (adjust right and left stops). Tighten mounting nut.



(Left Side View)

Page 15 Revised, October 1970

2.14 Paper Unwinder (continued)

LOW PAPER SENSING ARM

Requirement

With paper roll biased toward cover, low paper alarm switch should close when diameter of paper roll is 1-1/2 inches.

To Adjust

Loosen two screws which support pivot for low paper sensing arm. With continuity tester or voltmeter attached to switch contacts, position pivot support bracket toward right or left until requirement is met. Tighten screws.



Page 16 Reissued, October 1970



SLACK ARM RETURN SPRING (Latest Design)

To Check

Paper slack arm should be in normal rest position with no deflection.

Requirement

Amount of force to pull slack arm return spring to installed length should be _____ Min 20 oz---Max 28 oz



Page 16.1 Added, October 1970





SLACK ARM RETURN SPRING (Early Design)

To Check

Paper slack arm should be in normal rest position with no deflection.

Requirement

Amount of force to pull slack arm return spring to installed length should be _____ Min 20 oz---Max 28 oz



2.16 Paper Unwinder (continued)

PAPER ALIGNMENT

To Check

Feed paper through unit without necessarily printing.

Requirement

Paper should be centered with no more than 1/8 inch difference between side frames of transport mechanism and edge of paper on each side.

To Adjust

With paper unwinder mounting screws loosened, position paper unwinder assembly either right or left. Tighten mounting screws and nut.



(Top View)



Revised, October 1970

2.18 Paper Winder (continued)



3. LUBRICATION

3.01 The cover, base, cabinet, paper unwinder, and paper winder should be lubricated as directed in this portion of the section.

3.02 The photographs show paragraph numbers referring to particular line drawings of mechanisms and illustrates the location of these mechanisms on the particular unit. Parts are shown in an upright position, viewed from the front, unless otherwise stated.

3.03 Spring loops, felt washers, and certain shafts should be oiled. The friction surfaces of all exposed moving parts should be lubricated; however, overlubrication should be avoided. Exercise care to prevent oil or grease from getting between magnet armature pole faces. Keep all electrical contacts free of ink, oil, or grease. Also, keep the cover gasket free of contamination. CAUTION: REMOVE POWER FROM SET BEFORE AN ATTEMPT IS MADE TO IN-SPECT, LUBRICATE, OR CLEANANY POR-TION OF THE UNITS.

3.04 Refer to Section 570-005-800 for lubricant ordering information. The following symbols are used to indicate the type and amount of lubricant required:

Symbol	Meaning
01	One drop of oil (KS7470)
02	Two drops of oil (KS7470)
G	Thin coat of grease (KS7471)
GM	Tacky grease (TP145867)
\mathbf{AL}	Aero Lubriplate (TP301313)

Note: Use TP194853 oil injector to lubricate ventilation fans as specified.



COVER



3.05 Front Lid Latches



3.06 Front Lid Release Spring



Engaging Surface

Release Spring

Hinge Post

3.07 Front Lid Hinge Post

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3.08 Rear Lid Hinges (Right and Left)



3.09 Cover Latches (Right and Left)



BASE



3.10 Cover Guide Posts





3.11 Top Panel Slides



Bearing Surfaces

Panel Slides

3.12 Top Panel Slide Tracks



3.13 Sliding Panel Latch

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3.14 Front Door Pivots (Hinge) — Upper and Lower



3.15 Interlock Override Switch



3.16 Module Slides



3.17 Ventilation Fans



Note: Two fans are located in the cabinet base.

Lubricate the fans every 10,000 hours using the TP194853 oil injector. To lubricate:

- (1) Remove cap from end of oil injector.
- (2) Place needle at the center of the circle marked on the gold label.
- (3) Position the needle at an angle of approximately 45° to the surface of the label.
- (4) Pierce the label and the concealed self-sealing rubber cap located under the label.
- (5) Depress the oil injector plunger slowly to release approximately 1/8 inch of oil.

PAPER UNWINDER AND WINDER

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SECTION 578-500-701

3.18 Slack and Sensing Arms



3.19 Right Bracket



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