# SERIES 5 PRINTER/CONSOLE

(Unbuffered)

# ADJUSTMENT AND FINAL TEST PROCEDURE

AC-TP-3011

1					
	Customer	ZUSE #2	A.O.	No. 5702	
		50624-6- 25	79 Çonso	le No. 1769	
		<i>₩</i>		•	
		Tested By	S E EF		
		Date 4/30	/65		
	•	TEST REVIEWED	AND APPROVED	BY:	
	OHA	RAH	3.4	Lutin 12,	
	Chief Test E	ng/neer	Manager	Printer Electroni	es
	5/4	65		5/5/65	
	Date /		Date	/	
<b>***</b> *********************************	S.				-
			ntátive		
EN	PL				
1. Kolin	1/2				
		the Hettlage			
X UU	below for	- Jonelus			
Es	7. BN. 643	853			
		1136 7/3	OX CORPORATION -	T	P361-1
A.	1 N. 106	465			

1.0	SYSTE	M SPECIFICATIONS	
	1.1	Material ListPrinter	506298
	1.2	Material ListConsole	
	1.3	Wiring Options and Addendum	1570
	1.4	Print Wheel Speed	_ <b>333</b> _RPM ±3%
	1.5	Paper Feed Slew Rate	<u>18</u> IPS+20%
	1.6	Lines Per Inch	
	1.7	No. of Columns	_136
	,1.8	Character Selection	64
	1.9	Format Channels	8
	1.10	Line Supply	230 Volts cycles
			phase wire
	1.11	Print Wheel Engraving	5/030
	1.12	Code Wheel	30314
2.0	STATI	C CONSOLE TEST	
	2.1	Check all fuses and circuit breakers for correct size and type.	By Pax.
	2.2	Check resistance of all power supply outputs at test terminalsshould be no shorts or open circuits.	
		Note: -36V output will normally read 1 ohm ±25%	By Past
	2.3	Check resistance between frame ground and DC returnshould be open circuit.	By Pax
	2.4	Check for correct AC jumpers at TB401 on sequencer.	By P.J.
	2.5	Check mechanical operation of all circuit breakers.	By Pas

<u>CAUTION</u>: In the following series of tests be sure to turn Power <u>OFF</u> before inserting or removing P. C. Cards, jumpers, etc.

## 3.0 DYNAMIC CONSOLE TEST

- Note: (1) Do not connect printer or test set.
  - (2) Main AC circuit breaker OFF.
    Fan, Printer and Yoke breakers ON.
  - (3) Connect P201 from control panel.
  - (4) Check that loose connectors are not shorting.
- 3.1 Connect AC power cable to TB301 and specified voltage source and check for correct voltage on Utility Outlet.

3.2 Turn on main AC circuit breaker CBO1 at sequencer. "OFF" light should energize. By Pas

- 3.3 Momentarily depress "ON" button. This should result in the following sequence of operations:
  - 3.3.1 Both "ON" and "OFF" lights should be OFF.

By Pad

3.3.2 "TRACTOR INDEX" and "ALARM STATUS" lights on front control panel should be <u>ON</u> and "TOP OF FORM" light on front and rear panels should be <u>ON</u>.

By Pax

3.3.3 "INTERLOCK" light on sequencer should be <u>ON</u>.

By Pass.

3.3.4 K10 should be energized supplying AC to the Multiple Power Supply. Check for outputs.

By July

3.3.5 When the +6V, -6V and -18V are present at the sensing sector, relay KO1 should energize supplying AC to the -36V Power Supply. Check for -36V output.

By / 11.

3.4 Measure and record outputs of all Power Supplies using dummy loads.

#### REGULATED

MARGINAL ±10%

- +6V ±3\frac{1}{2}% ( 5.79/6.21) 5.90 5./6 to 6.23 ( 5.4 to 6.6 Min.)
- -6V ±3½% ( 5.79/6.21) 5.80 5.02 to 6.66 ( 5.4 to 6.6 Min.)
- -18V  $\pm 3\frac{1}{2}\%$  (17.37/18.63) 17.5 15.4 to 19.6 (16.2 to 19.8 Min.)
- -36V ±5% (34.2/37.8) 36.6

By Jod.

3.5 Simulate trouble in the DC circuit by removing the \*6Voutput fuse.

The "DC ALARM" and "ALARM STATUS" lights should be  $\underline{ON}$ . All other lights should be  $\underline{OFF}$ .

All DC voltages should be OFF.

By Pal.

3.5.1 Check "OVERRIDE" circuit by depressing switch and checking for presence of output voltages at -6V and -18V supplies

By Pat

3.5.2 With dummy load still connected repeat Par. 3.5 removing the -6V, -18V and-36V fuses, one at a time.By\_

13 A A

3.6 Insert one Hammer Driver card and check DC voltages at basket:

Pin 1: -18V Pin 19: -36V

Pin 19: -36V Pin 23: +6V

By Past.

3.7 Remove wire from TB401-53 and insert Monitor 5 card in Position A08.

By Pal.

3.8 Jumper pin 13 to 14 on A08 and check B29-13 for -18V. "ALARM STATUS" and "INTERLOCK" lights should be OFF.

ву В

	3. 9	Check CIRCUIT BREAKER alarm circuit by opening and closing breakers causing "ALARM STATUS" light to go ON, and OFF.	A
		3.9.1 FAN circuit breaker	ву
		3.9.2 PRINTER circuit breaker	Ву
		3.9.3 YOKE circuit breaker	Ву
	3.10	Insert blown fuse in "LOAD" card and insert card in position A28.	
		"CARD ALARM" and "ALARM STATUS" lights should go ON. Remove card.	Ву
	3.11	Insert blown fuse in "P.F. and CONTROL SENSE" card and insert in position AlO.	
		"CARD ALARM" and "ALARM STATUS" lights should go ON. Remove card.	Ву
	3.12	Remove jumper which was installed in Par. 3.8 (A08-13 to A08-14), and remove hammer driver card. "INTERLOCK" and "ALARM STATUS" lights should go QN. B39-13 should read 0 volts	Ву
	3.13	Replace wire on TB401-53. "PHOTO ALARM" light should go ON in addition to "INTERLOCK" and "ALARM STATUS" lights.	Ву
	3.14	Check all FUSE INDICATORS.	By A
4.0	STATI	C PRINTER TEST	$\boldsymbol{A}$
	4.1	CODE WHEELvisual check	Ву
	4.2	PAPER TENSION CONTROLcheck operation and adjust for center of range.	ву <b>Л.</b> А.
	4.3	TRACTORSadjust alignment and tension and check for binds.	Ву
	4.4	BELTSadjust tension	Ву
	4.5	RIBBON MANDRELSadjust brake torque for 8 to 12 inch-ounces.	Ву

### 5.0 DYNAMIC PRINTER TEST

- Note: (1) Connect Printer to Console at TB101.
  - (2) Turn Yoke, Printer, and Fan circuit breakers OFF.
  - (3) Turn main AC circuit breaker ON.
- 5.1 Depress YOKE CIRCUIT BREAKER and check operation of OPEN/CLOSE YOKE circuit.



- 5.1.1 Release yoke switches at approximately 3/4 of maximum OPEN position and check for positive mechanical stop.
- Ву\_\_\_\_\_\_
- 5.1.2 Visual check of print wheel engraving.
- 5.1.3 Adjust PENETRATION KNOBS for minimum penetration setting and return yoke to print position.



- 5.2 Depress FAN CIRCUIT BREAKER.
  - 5.2.1 Depress "ON" button and check operation of PRINTER FANS.



5.2.2 Check voltage for CONSOLE FANS.

115V AC 60 cycle at TB201-32 & 33 and TB201-32 & 34\_\_\_\_.

or

230V AC 50 cycle at TB 201-33 & 34\_\_\_\_.



- 5.3 Depress PRINTER CIRCUIT BREAKER
  - 5.3.1 Check operation of PRINTER DRIVE MOTOR.
  - 5.3.2 Check tracking of BELTS



5.4	ROLL	for correct ROTATION of PRINT should be <u>CCW</u> when viewed from heel end.	ву Ф
5.5	Measur to Par	e PRINT WHEEL SPEED and compare . 1.4.	
		340 <sub>RPM</sub>	Ву
5.6	Measur comput	e paper feed flywheel speed and e SLEW RATE. Compare to Par. 1.5	· 4
	155 RI	$PM \times 7.5 = 19.3$ IPS	Ву
5 <b>.7</b>	Connect To	t PlOl and PlO2 to Printer. Conest Set to Console.	
	5.7.1	"NO PAPER" and "PAPER LOW" lights on control panel should go ON.	Ву
	5.7.2	Simulate "PAPER IN" condition and check that both lights go OFF.	Ву
	5.7.3	Operate Yoke Open/Close switches and check operation of "YOKE OPEN" light on control panel.	ву
5.8	Insert	STROBE 5 and DATA 5 cards.	
5.9	PULSES	e INPUT and OUTPUT CODE WHEEL and adjust light source where ary. (See Fig. 1 for tol.)	ву
5.10		Paper Feed Limiter resistors proximate tap setting.	By
5.11		P. F. Control-Sense and P. F. ilse cards.	
	5.11.1	Adjust test set for correct "SKEW TIMING" and select legitimate character.	ву.
	5.11.2	Depressing "START/STOP switches on test set or front and rear printer panelsshould control PAPER FEED.	ву
	5.11.3	Check tracking of TIMING BELT, where used.	ву/Д
		A DA - N	

5.12	Examine and record PAPER FEED "DRIVE" and "BRAKE" waveforms and adjust amplitudes and pulse widths. (See Fig. 4 for tol.)	
	Note: Do not record line marker time until par. 9.1.	Ву
5.13	PAPER FEED RUN-INAt some convenient time prior to par. 7.0 operate paper feed at maximum rate for a period of 8 hours.(min.)	Ву
5.14	FORM POSITIONING CONTROLCheck travel with power ON. (9/16" Min.)	Ву_ #
5.15	Examine INPUT and OUTPUT paper feed STROBE and TRACTOR INDEX PULSES and adjust light source where necessary. (See Fig. 2 for tol.)	20
,	5.15.1 6 L. P. I.	Ву
	5.15.2 8 L. P. I.	By NA
	5.15.3.10 L. P. I.	By NA
	5.15.4 Check control panel indication for above modes of operation, where applicable.	ву МД
	5.15.5 Tractor index	Ву
5.16	Check operation of TRACTOR INDEX circuit.	By NA
	Depressing switch should result in $\frac{1}{2}$ " paper advance.	By N/P
5.17	Check operation of TOP OF FORM circuit.	
	Depressing switch on either front or rear control panel should result in SINGLE LINE operation without format tape.	$\mathcal{L}_{1}$
	(Tape hold-down should be DOWN).	Ву_О
5 <b>.1</b> 8	Check operation of "PHOTO ALARM" circui	t.
	5.18.1 Remove "NO PAPER" sense lamp.	
	"PHOTO ALARM" and "ALARM STATUS lights should go ON.	"By_ #F

5.19	Insert RIBBON CONTROL card. Operate paper feed and adjust RIBBON REVERSAL for 5±3 turns. (Check twice)	By AMAS
	5.19.1 Check FORCE RIBBON circuit by depressing switch at test set.	By AMILO
5 <b>.2</b> 0	Install paper and check HAMMER CIRCUIT operation as follows:	•
,	CAUTION: Penetration controls should be adjusted for LIGHT print.	104
	5.20.1 Install one LOAD card and the three corresponding HAMIER DRIVER CARDS (one at a time).	Ву
	5.20.2 Repeat Par. 5.20.1 with remaining LOAD cards.	ву (Б
5.21	Adjust HAMMER DRIVER OUTPUT PULSE WIDTHS as per the following chart:	
	HIGH SPEED modules 1.25 ms LOW SPEED modules 1.50 ms (check type used)	by Na Co
PRIN	T HAMMER ADJUSTMENTS	
6.1	Operate printer in "SOLID CHARAC"ER" mode, select character "E" and adjust PHASING of code wheel.	ву
6.2	Operate printer in "SOLID RIPPLE" mode and check for correct CHARACTER SEQUENCE.	By RAFE.
6.3	Adjust yoke stop screws for MAXIMUM PENETRATION using standard procedure.	Ву
6.4	Make preliminary penetration and flight time adjustments, printing character "B' on 15 lb. single-part paper, and check IMPACT on 6-part paper, bottom copy.	ву
6.5	Print character "M" on hammer heads and perform HORIZONTAL ALIGNMENT as follows:	:

6.0

6.5.1 Adjust YOKE laterally and lock adjusting screw.

6.5.2 Align modules and check print for absence of vertical or horizontal "CLTPTING" on 6-part paper, bottom copy



6.6 Check for "COCKED" hammers printing character "M" on 15 lb. single part paper. (File copy)

By AS

- 6.7 Make FINAL PENSTRATION adjustment printing character "B" on 15-1b. single part paper. (File copy)
  - Check uniformity of penetration on 6-part paper, bottom copy. (File copy)

    By
- 6.9 Run short scan of all characters (4 to a page) at same penetration level and examine print for damaged characters and print roll runout. (File copy).



6.10 Using character "E" recheck setting of "SKEW TIMING". Rotate character phasing control and adjust for uniform fadeout of character lands at both ends of print roll.



6.11 Adjust hammer FLIGHT TIMES printing character "E" and using end characters adjusted in par. 6.10 as reference.

Vertical displacement shall not exceed ±.010 referenced to a common centerline.

Check with comparator using minus (-). sign.

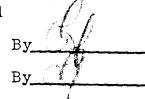
Ву

6.12 Check that line of print is parallel to paper tear line and readjust tractors where necessary.

## 7.0 <u>VERTICAL FORMAT ADJUSTMENT</u>

6.8

7.1 Align diode blocks with holes in punched tape, taking care not to interfere with sprocket.



- 7.2 Adjust tape hold-down.
- 7.3 Examine INPUT and OUTPUT VFU PULSES and adjust light source where necessary (See Fig. 3 for tolerance.

Ву

7.4	PULSES	TIMING between STROBE and VFU to satisfy 6, 8 and 10 LPI, when able, and check operation on all	re Zav
	7.4.1	6 L. P. I.	Ву
	7.4.2.	8 L. P. I.	Ву//
	7.4.3.	10 L. P. I.	By MA
7.5	Check	"TOP OF FORM" operation	Ву
PAPE	R PULLE	R ADJUSTMENT	Y
8.1	clutch	l single-part paper and adjust torque and roller pressure for coperation in "single-space" mode	By HAN
8.2	Rechec nel.	k operation using a format chan-	By JEL RAH
8.3	Instal and 8.	1 6-part paper and repeat Par. 8.	1 By Hel
PAPE	R FEED	OPERATION	
9.1	Electr	ical Paper Feed Time	
		e and record single space line time. (See Fig. 4 for tol.)	Ву
9.2	Total	Paper Feed Time	
	Note:	Install platens and paper tension device (for 2-tractor machine).	n
		"FEED WHILE PRINT" function on et, compute time with single-aper.	
	4 Trac	tors MS	
	2 Trac	tors V MS (≤ 18 MS)	Ву
ACCE	PTANCE	TEST	•
Note	: (1)	Use single-part paper unless otherwise noted.	

8.0

9.0

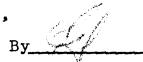
10.0

- (2) All print to be observed during operation for stability, legibility, accurate format and uniform line spacing.
- 10.1 CHARACTER SCAN (Solid Char. Mode)

Print approximately & page of each character engraved on the print roll. (File copy)

ву

- 10.2 STROBE (Cycle Print Mode)
  - 10.2.1 Print 2 pages of single space, using manual "single line" mode on test set.
  - 10.2.2 Print 10 pages of single space, using 'continuous' mode on test set.



- 10.3 FORMAT (Cycle Print Mode)
  - Note: Were 6 and 8 line per inch operation is available, the time run for each channel should be divided between the two.
  - 10.3.1 Print 4 pages of each channel and check for accuracy.
  - 10.3.2 Print on all channels for a period of 10 minutes each.
  - 10.3.3 Using 6-part paper, print on any channel for a period of 2 minutes.

By By

Ву\_\_\_\_\_

## 11.0 INTERFACE CHECKOUT

Check operation and indication of following functions (where applicable) using remote panel on test set:

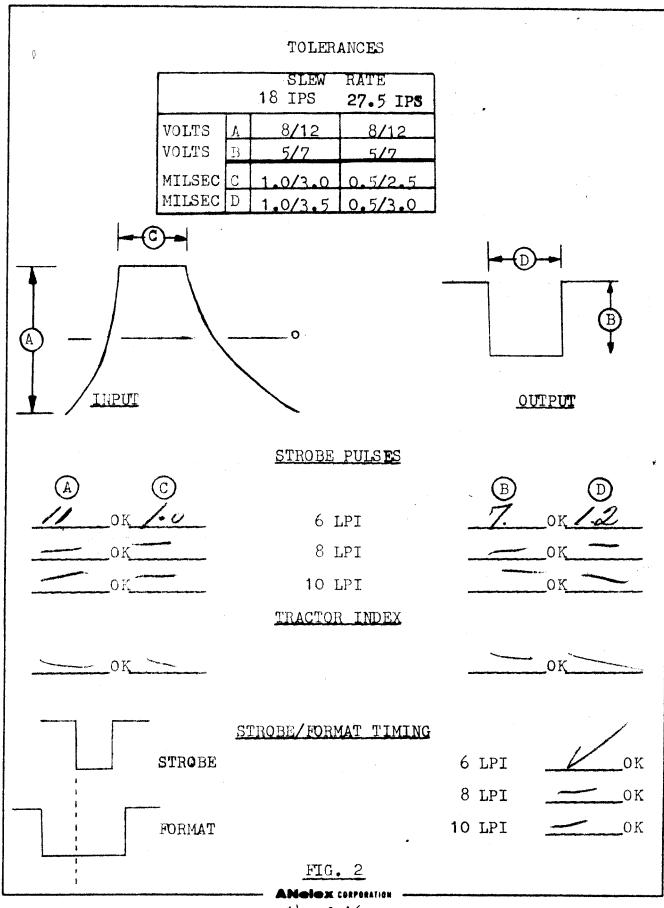
- 11.1 On/Off
- 11.2 Start/Stop
- 11.3 Yoke Open/Closed
- 11.4 No Paper

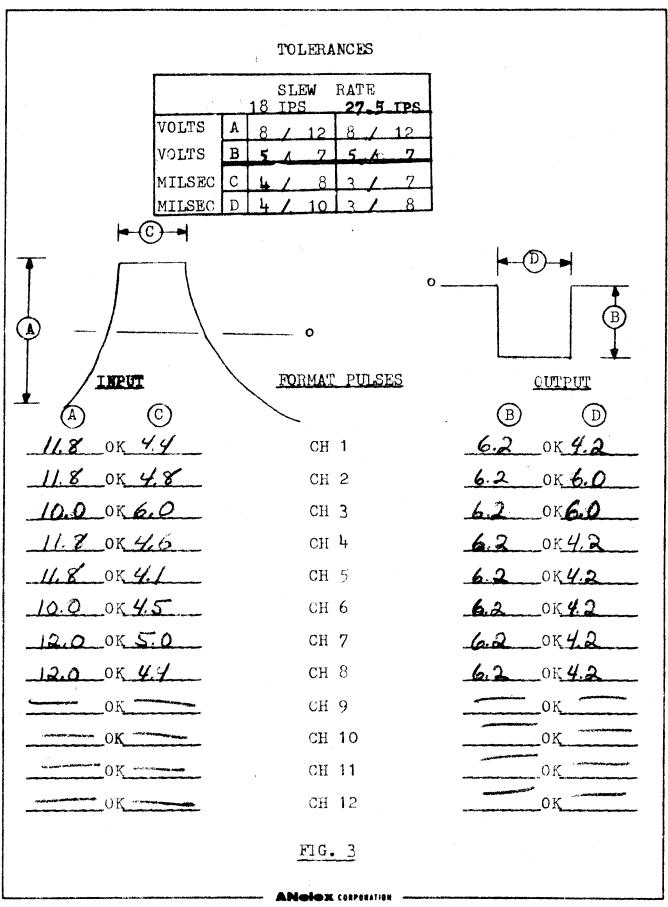
By By By By

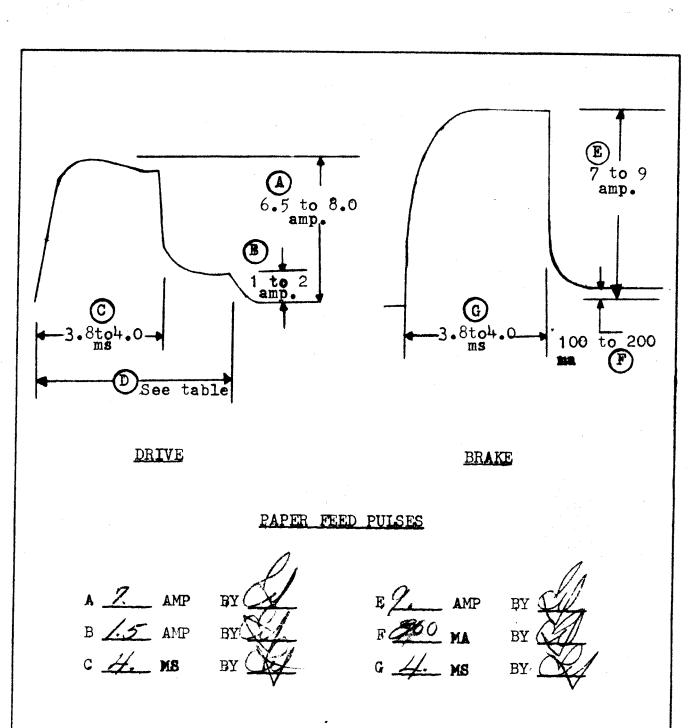
Ву\_\_\_\_

11.5	Paper Low	ву Ми
11.6	Tractor Index	Ву
11.7	Top of Form	Ву
11.8	Ready/Not Ready	By

# TOLERANCES ROLL 666 SPEED 1250 PRINT 333 A B C MILSEC INPUT OUTPUT CODE WHEEL PULSES (A) (C) (B) (D) CH 1 CH 2 CH 3 CH 4 CH 5 СН б CH 7 CH 8 CH 9 CH 10 FIG. 1







D MS	18 IPS	27.5 IPS
6 LPI	8.8	NA
	7.5/9.5	6.0/8.0
8 LPI	6.0/8.0	4.5/6.5

FIG. 4

	REVISIONS		
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## 1. PURPOSE

The purpose of this document is to define an acceptance procedure that will ensure that the equipment to be delivered ZUSE

under referenced Contract No. complies with the operational requirements of referenced Specification No. with effective Amendments; and that the physical appearance of the equipment delivered indicates that it has been fabricated in conformance with good commercial practice. This test is to be performed at Anelex Corporation, prior to shipment, and may be witnessed by technical representatives of the client.

## 2. SCOPE

The scope of this test and associated log shall be limited to a final acceptance test. This test will be limited to:

- a. Visual Inspection. The equipment shall be inspected for operation and tightness of all parts, neatness of cabling and overall workmanship. The above shall conform to good commercial practice and be of a level compatible with other commercial equipment currently being delivered by Anelex. It should be understood that in many areas Anelex employs point-to-point wire-wrap techniques.
- b. Dynamic Operational Test. Actual acceptance test performed shall be limited to that required to demonstrate conformance to operational requirements of the specification, as interpreted by Anelex and client's representative Project Engineer. Details of this test are defined in paragraph 3.

ANGIOX CORPORATION

	<b>c.</b>	It is to be understood that although the paraterials, and process employed in the manufacture of this equipment have been selected to conform with the intent of the environmental, reliability, operating life, failurate and interference requirements of the Specification, no test to indicate conformation with these items is required.	ı– ed re
3.	ACCE	EPTANCE TEST	6
3.1	Prep	paration for Printing	•
3.1.	1	Load VFU paper tape loop.	
		The tape shall be pre-punched according to the following schedule.  By wt.	
		Channel 1 TOF (Line 2) Channel 2 BOF (Line 65) Channel 3 Every line (Single)* Channel 4 Double line space* Channel 5 Triple line space* Channel 6 Skip Four (4) spaces* Channel 7 Skip Five (5) spaces*	
		NOTE: *Commencing with line two (2) and terminating on or before line 65, the tape loop shall be 66 lines in length.  By \( \omega_L \)	
3.1.	2	Press Top-of-Form control to position paperfeed mechanism.  By WL	1/2
3.1.	3	Open Yoke and load paper in printer. Position the tear line at the top of hammer heads.  By WL	
3.1.	4	Select code for Character E on the Maintenance panel.  By WL	

3.1.5	Press Test control to obtain prepentration control for good probserve that inked ribbon advantages.	cint quality.
		By WL (A)
3.1.6	Press Stop Control to stop printhat paper advances to 2nd Top that no loss of data occurs who	of Form. Note
		By WL
3.1.7	Press TOF Control several time Top-of-Form position.	s and check By Wi
3.2 Pri	nt Control	
Thi the	s test demonstrates the action operator controls not heretofo	caused by operating re demonstrated.
3.2.1	With paper loaded, Yoke closed either disconnected or inopera control. Check that this cont STOP control is not illuminate or paperfeeding occurs.	tive, press START rol is illuminated, d and no printing
		By WL
3.2.2		·
3.4.4	Repeat 3.2.1 with: (a) Yoke o	pen, (b) Paper out.
<b>3.4.6</b>	Repeat 3.2.1 with: (a) Yoke of Check (a) YOKE OPEN indicator (b) PAPER OUT indicator	
3. £. £.		is illuminated. is illuminated.  START control are
	Check (a) YOKE OPEN indicator (b) PAPER OUT indicator (a & b) STOP control and not illuminated	is illuminated. is illuminated.  START control are  crol, reload paper
3.2.2	Check (a) YOKE OPEN indicator (b) PAPER OUT indicator (a & b) STOP control and not illuminated  Press STOP cont	is illuminated. is illuminated.  ESTART control are  Erol, reload paper  By W W  OP and TOP-OF-FORM  Onsole and check

(a) Block lamps on format Ch. 1 (so that no light 3.2.4 is picked up by photodiode). Press TOF control. Check that paper advances for a minimum of two forms (maximum should not exceed 5 forms). Check that Paper Runaway indicator is illuminated. (b) Press START control. Paper Runaway indicator mshould go out. Press STOP control. (c) Repear (a). Press TEST; Paper Runaway indicator should go out. Press RESET on Maintenance control panel. Repeat (a). Restore format lamps to normal. (d) Press TOF control. Paper Runaway indicator should go out. Ву uL Test Mode 3.3 This test demonstrates the printer's maintenance control facilities. 3.3.1 By means of the Maintenance panel controls, cause the printout of each character engraved on the printroll. Check for correct characters per attached code sheet Ву 3.4 ON LINE MODE (Simulator Logic Drawings) The following tests demonstrate inter- # face capabilities of the controller. Program Simulator for Solid character -- see Chart C. Printout at least three (3) pages. Check printout for single-line spacing and solid pattern. Ву 3.4.2 Program Simulator for Ripple pattern and print the following number of columns: 0,1,2,3,5,9,10,27,34,58,96,100,120,136\*, 160\* and any other(s) that client may desire. Chart A for switch setting. Print out about five lines for each counter setting.  $\omega U$ Program Simulator for full line of Print and 3.4.3 Ripple pattern. See Chart C for switch setting.
Print out about 3 pages.
By

\* Does not apply to 120-column system. \*
Does not apply to 120 or 136-column system.

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	•
3.4.4	Program Simulator with various control words per Chart B. Print out about five (5) pages of each, checking formatting of paper.
	By uc
3.4.5	Program Simulator for Ripple pattern. See Chart C for switch setting.
	Press START control. Switch PRINT/CLEAR switch to Clear position, scope Fl2ATPO3 on logic gate; observe Clear Buffer cycles being generated. Press STOP control; return PRINT/CLEAR switch to print position.
	By WL
3.4.6	Repeat step (d) of Chart B with a paper-low condition.
•.	Press START. Observe printer goes off line when TOF is sensed. Paper-low indicator is illuminated.
	By UC
	사용 전문 사용에 발표한 전에 가는 사용한 것이 되는 것이 되는 것이 되는 것이 되는 것이다. 같은 전문과 함께 있는 것이 되는 것이다.
	설명하는 사람이 그리고 있는 것이 되었다. 이 사람이 되는 것이 되는 것이 되었다. 선명하는 것이 되는 것은 사람들은 사람들이 되었다. 그 것은 것이 되는 것이 되었다.



# CHART A

Select following codes and press START control. All codes are decimal (excess three).

Switch!	Sel	ect			Res	ult	•
VFU	4			Single	Lir	ne Feed	
Character DATA	All sw C (co	itche unt)	s on	Ripple	, Pat	tern	
PRINT/CLEAR	Pr	int		Allows	Pri	int	•
Character Counter	Units 3	Tens	Hundreds 3	No pri	.nt,	feed pa	per
	. 4	3	3	Print	lst	column	•
	5	3	3	Print	2	columns	•*
	6	3	3	Print	3	columns	
	8	3	3	Print	5	columns	
	12	3	3	Print	9	columns	
	3	4	3	Print	10	columns	
	10	5	3	Print	27	columns	
	7	6	3	Print	34	columns	
	11	8	3	Print	58	columns	
	9	12	3	Print	96	columns	
	3	3	4	Print	100	columns	;
	. 3	5	4	Print	120	columns	•
	. 9	6	4	Print	136	columns	
	3	9	4	Print	160	columns	

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# CHART B

Select following codes and press START control. All codes decimal (excess three).

Switch	Select	Result
PRINT/CLEAR Character DATA A: Character Counter	Print ll sw. on C (count) Set for full line of data	
	Units Tens Hundreds	
	3 5 4 9 9 4	120-col.printer 136-column printer 160-column printer
VFU. (a) (b) (c) (d)	3 4 5 6	Print, No line feed. Print, Single line fd Print, Double line fd Print, Ch.1
(e)	7	(TOP of Form) Print, Ch. 2 (BOT of Form)
<b>(f)</b>	8	Print, Ch. 3 Single line fd
(g)	9	Print, Ch. 4 Double line fd
$ \begin{pmatrix} \mathbf{h} \\ \mathbf{i} \\ \mathbf{J} \\ \mathbf{k} \end{pmatrix} $	10 11 12 0,1,2 13, 14, 15	Print, Ch. 5 3 lines Print, Ch. 6 4 lines Print, Ch. 7 5 lines Print, No line feed. Scope T.P. 1 on simulator should indicate an ALARM I
		condition (Invalid Excess)

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### CHART C

All codes decimal (excess 3).

Select the following codes and press START control.

I. Full line of data, Ripple pattern.

Switch		Settin	<u>s</u>		*	
PRINT/CLEAR	er er en	Print	• • •		-	
Character	All	switch	es on C	e s		•
_VFU	• .	4	•	Si	ngle Line	•
Character	Uni	ts Tens	Hundreds			
Counter	3 9 3	569	7† 7† 7†	13	0-col.pri 6-col.pri 0-col.pri	inter

Printout will start at highest column addressed, data will be incremented by 1 as column counter steps down towards Col. 1 (only excess 3 characters will be generated, only valid characters will be printed).\*

II. Full line of data Solid character.

All switch settings, same as I above with the exception of Character Switches.

Character Data

Switch

	Units	Tens			
Example:	3	3	=	Character	"0"
	3	9	-	Character	"A"
	7	9	===	Character	·"E"

See Code Sheet for desired code.

\*Example of Printout for 160-col.Printer:

Col. 148,149,150,151,152,153,154,155,156,157,158,159,160 etc / Z Y X W V U T

(160 - 1st column printed, \_ indicates blank)

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ACCEPTANCE TEST  MODEL:  Solie 5  PRINTER NO. 2579 CONSOLE NO. 1769  TEST REVIEWED AND APPROVED BY:  SYSTEM TEST ENGINEER DATE  ANGLEX Q. C. DATE  CUSTOMER REPRESENTATIVE DATE  AFQAR  DATE				REVISIONS			
MODEL: Source 5  PRINTER NO. 2579 CONSOLE NO. 1769  TEST REVIEWED AND APPROVED BY:  SYSTEM TEST ENGINEER DATE  ANDLEX Q. C. DATE  CUSTOMER REPRESENTATIVE DATE		ZONE LTR	DESC	CRIPTION		DATE	APPROVED
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MODEL: Some 5  PRINTER NO. 2579 CONSOLE NO. 1769  TEST REVIEWED AND APPROVED BY:  SYSTEM TEST ENGINEER DATE  ANGLEX Q. C.  CUSTOMER REPRESENTATIVE  DATE  DATE	•						
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CUSTOMER REPRESENTATIVE DATE	SYSTEM TES	T ENGINEER (		DATE		,	
CUSTOMER REPRESENTATIVE DATE	John	Malion.		4-30-	-65		•
	ANELEX Q. C	•		DATE			
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SHEET 11 OF

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