Schoafter	ANelex 5-300 160 für 31/07 - 310025
The second se	RIES 5 PRINTER/CONSOLE
	(Unbuffered)
	VT AND FINAL TEST PROCEDURE
ADUODIMU	
	AC-TP-3011
Customer ZUSE	A.O. No. 1562/5685
Printer No. 506 24	-1-2485 Console No. 1729
Tested	By E. MORGAN
	i i
Date	3/17/65
Date	3/17/65
	B/17/65 EVIEWED AND APPROVED BY:
TEST RE	VIEWED AND APPROVED BY:
	VIEWED AND APPROVED BY:
TEST RE	VIEWED AND APPROVED BY:
TEST RE	TVIEWED AND APPROVED BY:
TEST RE	<u>WIEWED AND APPROVED BY</u> : Manager, Printer Electronics
TEST RE	TVIEWED AND APPROVED BY:
TEST RE	<u>WIEWED AND APPROVED BY</u> : Manager, Printer Electronics
TEST RE	<u>WIEWED AND APPROVED BY</u> : Manager, Printer Electronics
TEST RE	Manager, Printer Electronics
TEST RE Chief Test/Engineer Date Customer	Manager, Printer Electronics
TEST RE	Manager, Printer Electronics

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3.

1.0 SYSTEM SPECIFICATIONS 50624-1 1.1 Material List--Printer Material List--Console 1.2 31651 1.3 Wiring Options and Addendum 333\_RPM ±3% 1.4 Print Wheel Speed 1.5 Paper Feed Slew Rate IPS+20% 1.6 Lines Per Inch 160 1.7 No. of Columns 64 Character Selection 1.8 Format Channels 1.9 230\_ Volts 1.10 Line Supply cycles phase wire 51030 1.11 Print Wheel Engraving 90314 1.12 Code Wheel STATIC CONSOLE TEST 2.0 2.1 Check all fuses and circuit breakers By Par for correct size and type. 2.2 Check resistance of all power supply outputs at test terminals--should be no shorts or open circuits. -36V output will normally read Note:  $1 \text{ ohm } \pm 25\%$ 2.3 Check resistance between frame ground and DC return--should be open circuit. Check for correct AC jumpers at TB401 2.4 on sequencer. 2.5 Check mechanical operation of all Βv circuit breakers. 

1 of 16

TP361-2

3.0		MIC CON	P. C. Cards, jumpers, etc. <u>SOLE TEST</u> Do not connect printer or test set	
			Main AC circuit breaker <u>OFF</u> . Fan, Printer and Yoke breakers <u>ON</u> .	
		.(3)	Connect P201 from control panel.	
		(4)	Check that loose connectors are no shorting.	t
	3.1	fied v	t AC power cable to TB301 and speci oltage source <b>and</b> check for correct e on Utility Outlet.	2.1
	3.2		n main AC circuit breaker CBO1 at cer. "OFF" light should energize.	By Par.
	3.3	should	arily depress "ON" button. This result in the following sequence rations:	
		3.3.1	Both "ON" and "OFF" lights should be <u>OFF</u> .	By Part.
		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 Part.
		3.3.3	"INTERLOCK" light on sequencer should be <u>ON</u> .	By Par.
		3.3.4	KIO should be energized supplying AC to the Multiple Power Supply. Check for outputs.	By Par
		3.3.5	When the +6V, -6V and -18V are present at the sensing sector, relay KO1 should energize supply- ing AC to the -36V Power Supply. Check for -36V output.	By Carl
			2 of 1 <b>6</b>	TDIGI 9

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### TP361-3

	REG	ULATED	MA	RGINAL ±10%
+6V	±3불% (	5.79/6.21) <u>5.79</u>	5.03to668( 5	.4 to 6.6 Min.)
<b>-</b> 6V	±3 <del></del> ₽% (	5.79/6.21) <b>5.79</b>	5.02:06.71 ( 5	.4 to 6.6 Min.)
-18V	±3불% (1	7.37/18.63) <u>/7.9</u>	15.7 to 19.9 (16	.2 to 19.8 Min.)
-36V	± 5% (3	4.2/37.8) 36-2		
				By Pat.
3.5		te trouble in th th <b>e +6Vo</b> utput f		re-
	The "D should <u>OFF</u> .	C ALARM" and "AI be <u>ON</u> . All oth	LARM STATUS" lig ner lights shoul	d be
	All DC	voltages should	l be <u>OFF</u> .	By Pid
	3.5.1		n and checking f tput voltages at	or
	3.5.2	With dummy load repeat Par. 3.5 -18V and-36V fu	d still connected fremoving the - uses, one at a t	6V.
3.6		one Hammer Driv tages at basket:		ck
		Pin 1: -18 Pin 19: -36 Pin 23: +6	V	By Pert
3.7		wire from TB401 r 5 card in Post		By Post.
3.8	B29-13	pin 13 to 14 or for -18V. "ALA LOCK" lights sho	ARM STATUS" and	By Par.

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	المشتاعية بزيزين بروج معيدينا متراس		
	3. 9	Check CIRCUIT BREAKER alarm circuit by opening and closing breakers causing "ALARM STATUS" light to go <u>ON</u> , and <u>OFF</u> .	
		3.9.1 FAN circuit breaker	By Part
		3.9.2 PRINTER circuit breaker	By Par.
		3.9.3 YOKE circuit breaker	By Pax
	3.10	Insert blown fuse in "LOAD" card and insert card in position A28.	
		"CARD ALARM" and "ALARM STATUS" lights should go <u>ON</u> . Remove card.	By Parl.
	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 <u>ON</u> . Remove card.	By Pas.
	3.12	Remove jumper which was installed in Par. 3.8 (A08-13 to A08-14).	
		"INTERLOCK" and "ALARM STATUS" lights should go <u>ON</u> .	By Pas.
	3.13	Replace wire on TB401-53. "PHOTO ALARM" light should go <u>ON</u> in addition to "INTERLOCK" and "ALARM STATUS" lights.	By Pax
	3.14	Check all FUSE INDICATORS.	By Par.
4.0	STATIC	PRINTER TEST	1
	4.1	CODE WHEELvisual check	By_7H
	4.2	PAPER TENSION CONTROLcheck operation and adjust for center of range.	By
	4.3	TRACTORSadjust alignment and tension and check for binds.	By
	4.4	BELTSadjust tension	By
	4.5	RIBBON MANDRELSadjust brake torque for 8 to 12 inch-ounces.	By

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#### 5.0 DYNAMIC PRINTER TEST

- Note: (1) Connect Printer to Console at TB101.
  - (2) Turn Yoke, Printer, and Fan circuit breakers <u>OFF</u>.
  - (3) Turn main AC circuit breaker <u>ON</u>.
- 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.
  - 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\_\_\_\_.

By MA

By H

Bv

Bv

#### 5.3 Depress PRINTER CIRCUIT BREAKER

5.3.1 Check operation of PRINTER DRIVE MOTOR.

5.3.2 Check tracking of BELTS

Dimim X CORPORATION 5 of 14

The second secon		
5.4	Check for correct ROTATION of PRINT ROLLshould be <u>CCW</u> when viewed from code wheel end.	By Jel
5.5	Measure PRINT WHEEL SPEED and compare to Par. 1.4.	
	340 RPM	By FRS
5.6	Measure paper feed flywheel speed and compute SLEW RATE. Compare to Par. 1.5	•
,	$\frac{160}{60}$ RPM x 7.5 = $\frac{19.5}{19.5}$ IPS	By JEL
5.7	Connect P101 and P102 to Printer. Con- nect Test Set to Console.	
	5.7.1 "NO PAPER" and "PAPER LOW" lights on control panel should go <u>ON</u> .	By_HF
	5.7.2 Simulate "PAPER IN" condition and check that both lights go <u>OFF</u> .	By HF
	5.7.3 Operate Yoke Open/Close switches and check operation of "YOKE OPEN" light on control panel.	By
5.8	Insert STROBE 5 and DATA 5 cards.	
5.9	Examine INPUT and OUTPUT CODE WHEEL PULSES and adjust light source where necessary. (See Fig. 1 for tol.)	By
5.10	Adjust Paper Feed Limiter resistors for approximate tap setting.	By_HE_
5.11	Insert P. F. Control-Sense and P. F. Hold-Pulse cards.	
	5.11.1 Adjust test set for correct, "SKEW TIMING" and select legitimate character.	By
*	5.11.2 Depressing "START/STOP switches on test set or front and rear printer panelsshould control PAPER FEED.	By
	5.11.3 Check tracking of TIMING BELT, where used.	By_//F
	ANGIOX CORPORATION	

5.12	Examine and record PAPER FEED "DRIVE" and "BRAKE" waveforms and adjust ampli- tudes and pulse widths. (See Fig. 4 for tol.)	-
	Note: Do not record line marker time until par. 9.1.	By
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 <u>ON</u> . (9/16" Min.)	By
5.15	Examine INPUT and OUTPUT paper feed STROBE and TRACTOR INDEX PULSES and adjust light source where necessary. (See Fig. 2 for tol.)	
	5.15.1 6 L. P. I.	By
	5.15.2 8 L. P. I.	By
	5.15.3.10 L. P. I.	By
	5.15.4 Check control panel indication for above modes of operation, where applicable.	By
	5.15.5 Tractor index	By
5.16	Check operation of TRACTOR INDEX cir- cuit.	By
	Depressing switch should result in $\frac{1}{2}$ " paper advance.	By
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.	
	(Tape hold-down should be DOWN).	By
5.18	Check operation of "PHOTO ALARM" circuit	t. ·
	5.18.1 Remove "NO PAPER" sense lamp.	
	"PHOTO ALARM" and "ALARM STATUS' lights should go CN.	By

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	-1	Insert RIBBOH CONTROL card. Operate paper feed and adjust RIBBON REVERSAL for 5±3 turns. (Check twice)	By_HF
		5.10.1 Check FORCE RIBBON circuit by deprossing switch at test set.	By
	5 <b>.2</b> 0	Install paper and check HAMMER CIRCUIT operation as follows:	
		CAUTION: Penetration controls should be adjusted for LIGHT print.	
		5.20.1 Install one LOAD card and the three corresponding HAMMAR DRIVER CARDS (one at a time).	вуу́Е
		5.20.2 Repeat Par. 5.20.1 with remain- ing LOAD cards.	By
	5.21	Adjust HAMMER DRIVER OUTPUT PULSE WIDTHS as per the following chart:	
		HIGH SPEED modules1.25 ms LOW SPEED modules1.50 ms (check type used)	By
6.0	PRIN	T HAMMER ADJUSTMENTS	
	6.1	Operate printer in "SOLID CHARACTER" mode, select character "E" and adjust PHASING of code wheel.	By
	6.2	Operate printer in "SOLID RIPPLE" mode and check for correct CHARACTER SE- QUENCE.	By
	6.3	Adjust yoke stop screws for MAXIMUM PENETRATION using standard procedure.	By
	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.	By
	6.5	Print character "M" on hammer heads and perform HORIZONTAL ALIGNMENT as follows:	:
		6.5.1 Adjust YOKE laterally and lock adjusting screw.	By 5/11
		ANolox CORPORATION	

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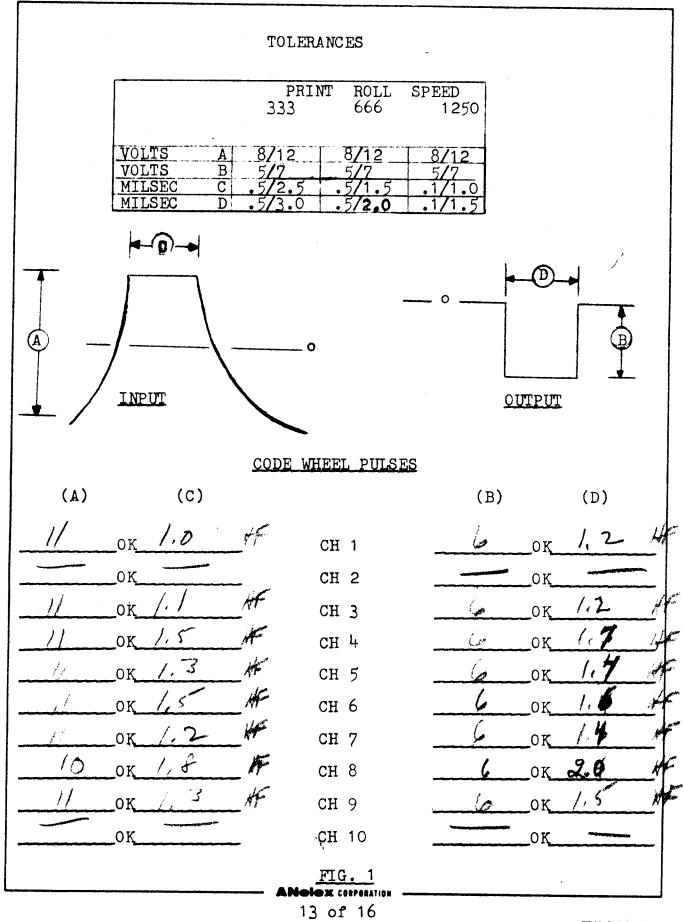
		6.5.2 Align modules and check print for absence of vertical or hor- izontal "CLTPPING" on 6-part paper, bottom copy	By
	6.6	Check for "COCKED" hammers printing character "M" on 15 lb. single part paper. (File copy)	By
	6.7	Make FINAL PENETRATION adjustment print- ing character "B" on 15-1b. single part paper. (File copy)	By
	6.8	Check uniformity of penetration on 6-par paper, bottom copy. (File copy)	t By
	6.9	Run short scan of all characters (4 to a page) at same penetration level and ex- amine print for damaged characters and print roll runout. (File copy).	By
	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.	By
	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.	
	6.12	Check with comparator using min <b>us</b> (-) sign. Check that line of print is parallel to paper tear line and readjust tractors	By By
7.0	VERI	where necessary. <u>ICAL FORMAT ADJUSTMENT</u>	By COM
		Align diode blocks with holes in punched tape, taking care not to interfere with	By_
	7.2	Adjust tape hold-down.	By the
		Examine INPUT and OUTPUT VFU PULSES and adjust light source where necessary (See Fig. 3 for tolerance.	By
		ANOIOX CORPORATION	
		9 of 1 <b>6</b>	<b>TP361-10</b>

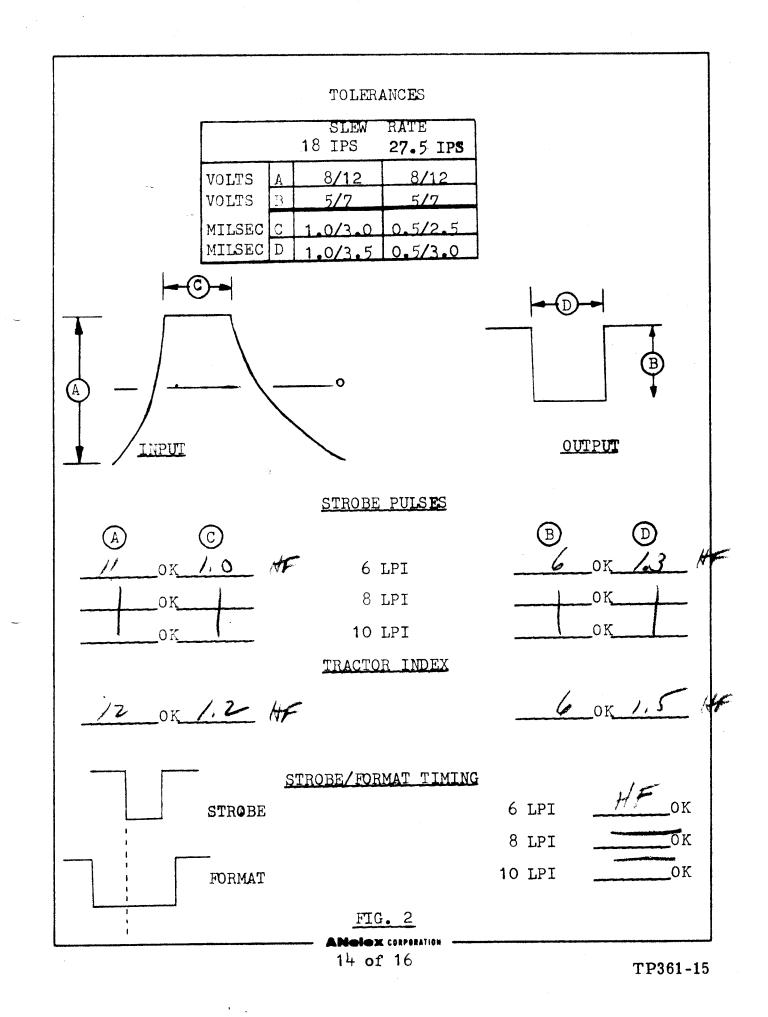
7.4 Adjust TIMING between STROBE and VFU PULSES to satisfy 6, 8 and 10 LPI, where applicable, and check operation on all channels. 7.4.1 6 L. P. I. Bv 7.4.2. 8 L. P. I. By 7.4.3. 10 L. P. I. Βv 7.5 Check "TOP OF FORM" operation By 8.0 PAPER PULLER ADJUSTMENT 8.1 Install single-part paper and adjust clutch torque and roller pressure for smooth operation in "single-space" mode.By\_ 8.2 Recheck operation using a format channel. 8.3 Install 6-part paper and repeat Par. 8.1 and 8.2. 9.0 PAPER FEED OPERATION 9.1 Electrical Paper Feed Time--Examine and record single space line marker time. (See Fig. 4 for tol.) By 9.2 Total Paper Feed Time--Note: Install platens and paper tension device (for 2-tractor machine). Using "FEED WHILE PRINT" function on test set, compute time with singlepart paper. 4 Tractors MS 2 Tractors MS Bv 10.0 ACCEPTANCE TEST Note: (1) Use single-part paper unless otherwise noted. ANOIOX CORPORATION 10 of 18 **TP361-11** 

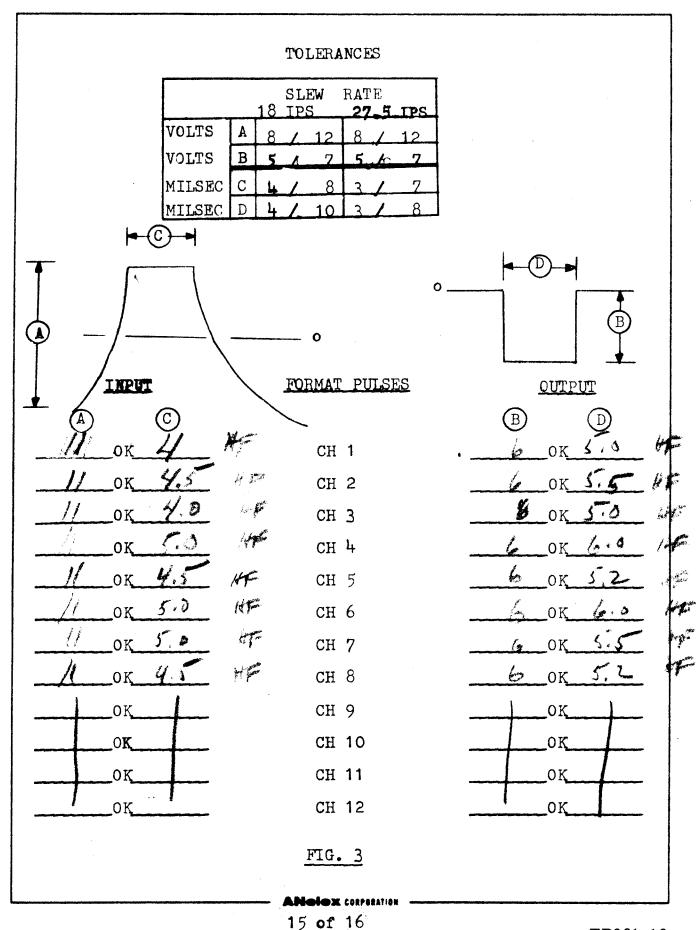
	er ac	l print to be observed during o ation for stability, legibility curate format and uniform line acing.	pp-
10.1	CHARACT	ER SCAN (Solid Char. Mode)	
		pproximately $\frac{1}{4}$ page of each er engraved on the print roll. opy)	B <b>y</b>
10.2	STROBE	(Cycle Print Mode)	
	10.2.1	Print 2 pages of single space, using manual "single line" mod on test set.	e By
	10.2.2	Print 10 pages of single space using 'bontinuous" mode on test set.	By
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 chan- nel and check for accuracy.	B <b>y</b>
	10.3.2	Print on all channels for a period of 10 minutes each.	By
	10.3.3	Using 6-part paper, print on any channel for a period of 2 minutes.	By
11.0 <u>INTER</u>	FACE CHEC	KOUT	
functi		on and indication of following ere applicable) using remote set:	
11.1	0n/0ff		ву_ <u>U</u> А
11.2	Start/S	top	By
11.3	Yoke Ope	en/Closed	By
11.4	No Paper		By
		ANGIOX CORPORATION	

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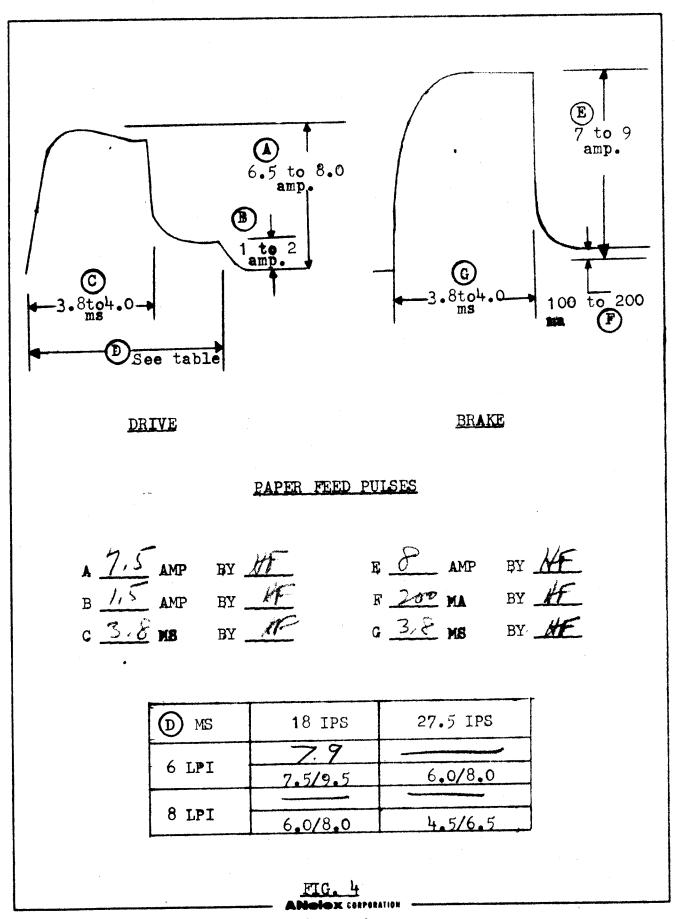
11.5	Paper L <b>o</b> w	By
11.6	Tractor Index	By
11.7	Top of Form	By
11.8	Ready/Not Ready	By
11.9	Additional Tests	







**TP361-16** 



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<sup>16</sup> of 16

	CORPORATION
ENGINEER	ING DEPARTMENT
	······································
PRINTER	and BUFFER
BUFFERED PRINTS	ER ACCEPTANCE TEST
	and the second
CUSTOMER $ZUSE #1$	A.O. No.1532-5635
PRINTER No. 50629-61-2485	CONSOLE NO. <u>62747-71729</u>
Tested By:	<u>i San de la companya de la companya</u>
	T ATTOART ST.
TEST REVIEWE.	D and APPROVED BY:
and in	
Engineer-in-Charge	System Manager
Date: 3/16/65	Date:
Quality Control	Customer's Representative
Date:	Date:
	•
#1562	Page 1 of 9

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ACCEPTANCE TEST

#### 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. <u>Visual Inspection</u>. 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 wirewrap techniques.

By\_\_\_\_\_

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.

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c. It is to be understood that although the parts, materials, and process employed in the manufacture of this equipment have been selected to conform with the intent of the environmental, reliability, operating life, failure rate and interference requirements of the Specification, no test to indicate conformance with these items is required.

#### 3. ACCEPTANCE TEST

### 3.1 Preparation for Printing

S.1.1 Load VFU paper tape loop.

The tape shall be pre-punched according to the following schedule. By  $\left( A \right)^{2} = -$ 

Channel Channel Channel Channel Channel Channel Channel	2 M-4 56	TOF (Line 2) BOF (Line 65) Every line (Single)* Double line space* Triple line space* Skip Four (4) spaces* 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  $\sqrt[A]{A}$ 

3.1.2 Press Top-of-Form control to position paperfeed mechanism.

Open Yoke and load paper in printer. 3.1.3 Position the tear line at the top of hammer heads.

3.1.4 Select code for Character E on the Maintenance panel.

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Press Test control to obtain printout; adjust 3.1.5 penetration control for good print quality. Observe that inked ribbon advances while printing. By Ver 1 Press Stop Control to stop printing. Observe 3.1.6 that paper advances to 2nd Top of Form. Note. that no loss of data occurs when stopping. By <u>Vern</u> Press TOF Control several times and check 3.1.7 Top-of-Form position. By Karana Andara 3.2 Print Control This test demonstrates the action caused by operating the operator controls not heretofore demonstrated. With paper loaded, Yoke closed and Simulator 3.2.1 either disconnected or inoperative, press START control. Check that this control is illuminated, STOP control is not illuminated and no printing or paperfeeding occurs. By A 3.2.2 Repeat 3.2.1 with: (a) Yoke open, (b) Paper out. Check (a) YOKE OPEN indicator is illuminated. (b) PAPER OUT indicator is illuminated. (a & b) TOP control and START control are not illuminated. Press STOP control, reload paper and close Yoke By 🔣 🖂 📐 Press in order, the START, STOP and TOP-OF-FORM 3.2.3 controls at rear of printer console and check for action specified in 3.2.1 and 3.1.7 above. By / ANGION CORPORATION -

3.2.4	(a)	Block lamps on format Ch. 1 (so that no light 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 should go out. Press STOP control.
	(c)	Repeat (a). Press TEST; Paper Runaway ~ indicator should go out. Press RESET on Maintenance control panel. ~
	(d)	Repeat (a). Restore format lamps to normal. Press TOF control. Paper Runaway indicator should go out.
		$\operatorname{By}(/A)  $
		11
3.4 <u>ON</u>	LINE M	MODE (Simulator Logic Drawings) #
The	e follo	MODE (Simulator Logic Drawings) # owing tests demonstrate Interface capabilities ontroller.
The	e follc the co Progr Print Check	owing tests demonstrate Interface capabilities
The	e follo the co Progr Print Check solic	owing tests demonstrate Interface capabilities ontroller. ram Simulator for Solid charactersee Chart C. t out at least three (3) pages. k printout for single-line spacing and
The of 3.4.1	e follo the co Progr Print Check solic Progr the f 0,1,2 and a See (	owing tests demonstrate Interface capabilities ontroller. ram Simulator for Solid charactersee Chart C. t out at least three (3) pages. k printout for single-line spacing and d pattern. By (A) ram Simulator for Ripple pattern and print
The of 3.4.1	e follo the co Progr Print Check solic Progr the f 0,1,2 and a See (	owing tests demonstrate Interface capabilities ontroller. ram Simulator for Solid charactersee Chart C. t out at least three (3) pages. k printout for single-line spacing and d pattern. By (A) ram Simulator for Ripple pattern and print following number of columns: 2,3,5,9,10,27,34,58,96,100,120,136*, 160* any other(s) that client may desire. Chart A for switch setting. Print out about
The of 3.4.1	e follo the co Progr Print Check solid Progr the f O,l,2 and a See ( five Progr Ripp]	owing tests demonstrate Interface capabilities ontroller. ram Simulator for Solid charactersee Chart C. t out at least three (3) pages. k printout for single-line spacing and d pattern. By A ram Simulator for Ripple pattern and print following number of columns: 2,3,5,9,10,27,34,58,96,100,120,136*, 160* any other(s) that client may desire. Chart A for switch setting. Print out about lines for each counter setting.

3.4.4 Program Simulator with various control words per Chart B. Print out about five (5) pages of each, checking formatting of paper.

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

By A Charles

By Dial

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.

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## CHART A

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

Swite	h	Select			Result
VFU		4		Single	Line Feed
Character		switches (count)	on	Ripple	Pattern

PRINT/CLEAR

Print

Allows Print

Character	Counter	Units		Hundreds		
		3	3	3	No print,	feed paper
		Σţ	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
· 2		3	4	3	Print 10	columns
		10	5	3	Print 27	columns
		7	б	3	Print 34	columns
		11	8	3	Print 58	columns
		9	12	3	Print 96	columns
		3	3	<u> </u>	Print 100	columns
	ан 1917 - 1917	3	5	4	Print 120	columns
		9	6	4	Print 136	columns
		3	9	4	Print 160	columns
			L			

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

CHART B

Switcl	h	Seleci	2	Result
PRINT/CLEA Character Character	DATA A	Print ll sw. on ( Set for fu of dat	ill line	_
			Hundreds 4	120-col.printer
		56 <b>9</b> 393	24 24 24	136-column printer 160-column printer
VFU	(a) (b) (c) (d)	M4 56		Print, No line feed. Print, Single line fd Print, Double line fd Print, Ch.1 (TOP of Form)
	(e)	7		Print, Ch. 2 (BOT of Form)
	(f)	8	~	Print, Ch. 3 Single line fd
	(g)	9		Print, Ch. 4 Double line fd
	(h) (i) (j) (k)	10 11 12 0,1,2 13, 14, 1	5 ]	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	Setting	· · · · · · · · · · · · · · · · · · ·
PRINT/CLEAR	Print	
Character	All switches on C	
VFU	<u>1</u> .	Single Line
Character	Units Tens Hundreds	
Counter	3 5 4 9 6 4 3 9 4	120-col.printer 136-col.printer 160-col.printer

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

Example:  $\frac{\text{Units}}{3} \qquad \frac{\text{Tens}}{3} = \text{Character "O"} \\
\frac{3}{7} \qquad 9 = \text{Character "A"} \\
7 \qquad 9 = \text{Character "E"} \\
\text{See Code Sheet for desired code.}$ 

\*Example of Printout <u>for 160-col.Printer</u>: Col. 148,149,150,151,152,153,154,155,156,157,158,159,160 Char. etc [ / \_ \_ Z Y X W V U T (160 - 1st column printed, \_ indicates blank)

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