

Tektronix, Inc.



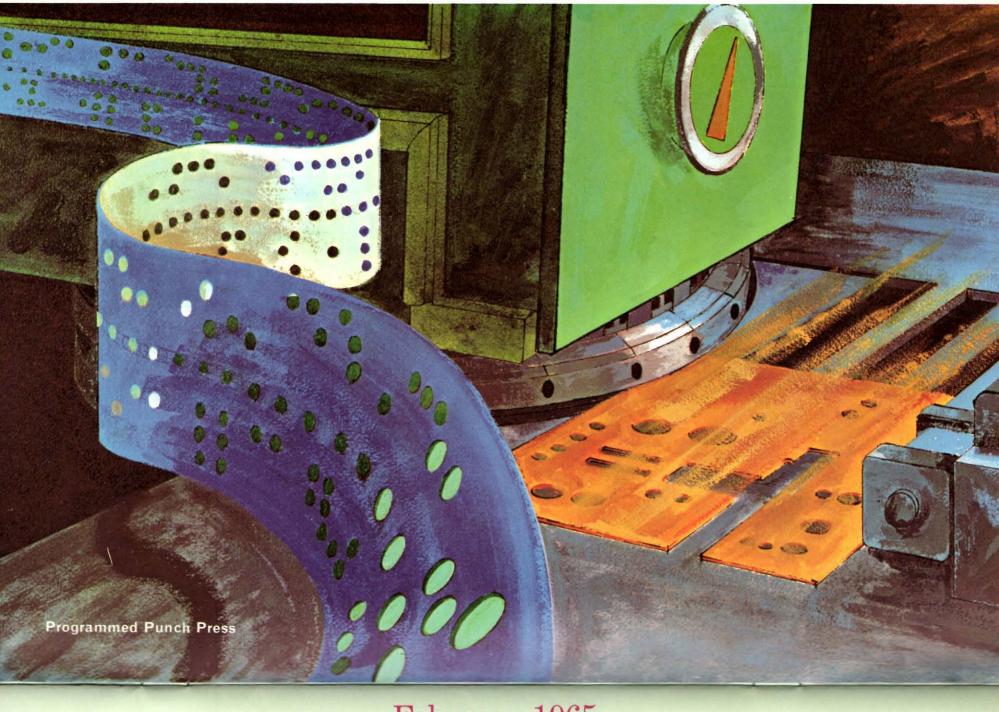


January 1965

SUNDAY DECEMBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY 1 New Year's Day	SATURDAY 2
3 Week 1	4	5	6	7	8	9
10 Week 2	11	12	13	14	15	16
17 Week 3	18	19	20	21	22	23
24 31 Week 4	25	26	27	28	29	30

Each month tear off bottom calendar to carry as your handy memo minder.

(Holding top of calendar, tear carefully along perforation, then fold along vertical scores to fit neatly in your coat pocket.)



February 1965

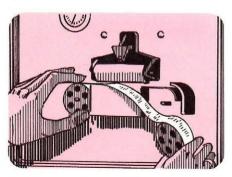
SUNDAY JANUARY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	MONDAY 1		WEDNESDAY 3	THURSDAY 4	FRIDAY 5	SATURDAY 6
7 Week 6	8	9	10	11	12	13
14 Week 7	15	16	17	18	19	20
21 Week 8	22	23	24	25	26	27
28 Week 9			9			

Tektronix · field office functions are designed to meet your needs.

PROGRAMMED PUNCHPRESS



A chassis panel is removed from the press, having been punched out to its exact pattern without help from the operator.



The punch press operator is shown here feeding a programmed tape into the master control for the press.

PROGRAMMED PUNCHPRESS

The data-processing system at Tektronix has been mated to our numerically-controlled turret punch press to reduce lead time between engineering drawings and fabricated sheet-metal parts. Hole requirements (size and location) are converted into computer language. This in turn is punched on tape to control turret rotation and sheet-metal position.

The result is a part (like the chassis piece shown in these pictures) produced with greater accuracy, and in a shorter period of time.





TEKTRONIX

pocket

CALENDAR

February



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	101	000	h 1	C	65
LV	0			To LA	

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

MONDAY

SUNDAY

TUESDAY

FEBRUARY S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	1	2	3	4	5	6
7 Week 10	8	9	10	11	12	13
14	15	16	17	18	19	20
Week 11						
21	22	23	24	25	26	27
Week 12		to the control of the				
28	29	30	31			
Week 13						
		111	0			

Tektronix · calibration and repair offered at 20 service centers.



April	l 1965
WEDN	NESDAY

THURSDAY

FRIDAY

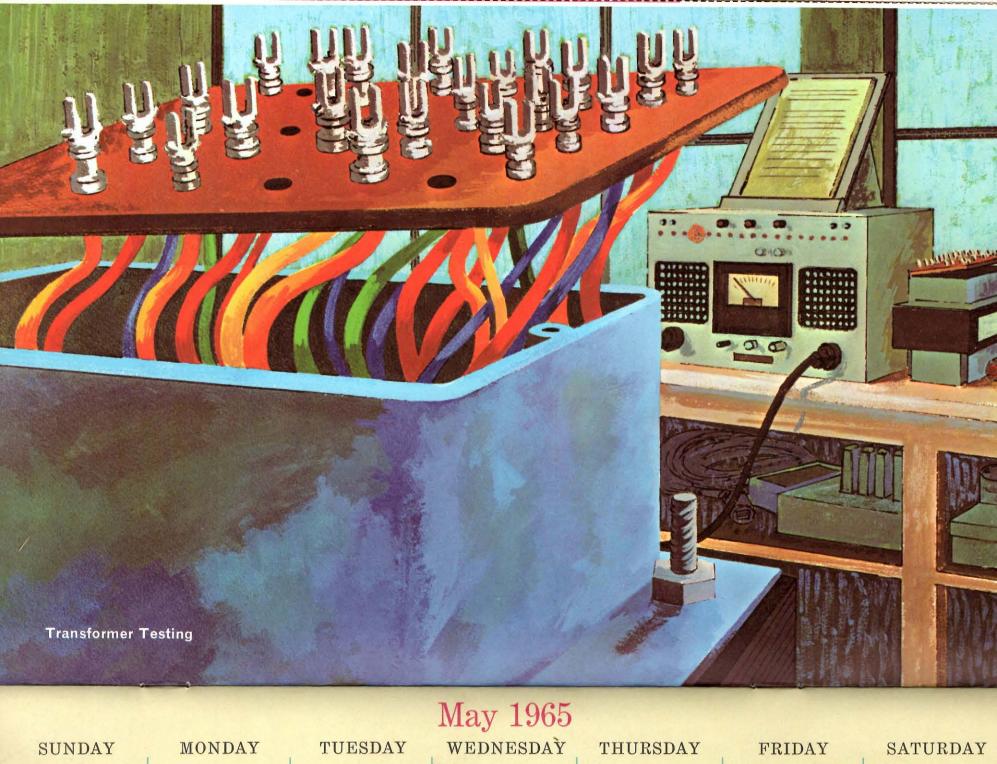
SATURDAY

MONDAY

SUNDAY

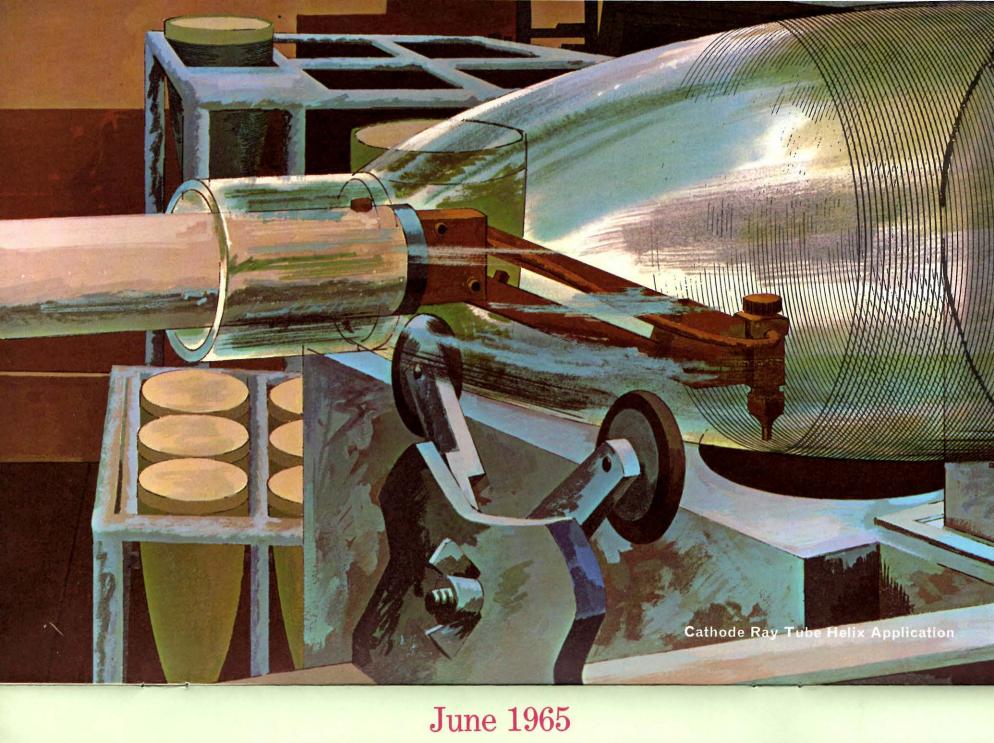
TUESDAY

MARCH S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31				1	2	3
Week 14	5	6	7	8	9	10
11 Week 15	12	13	14	15	16	17
18 Week 16	19	20	21	22	23	24
25 Week 17	26	27	28	29	30	
Tek	tronix · over	100 field en	gineers are f	actory-traine	ed to assist v	ou.



APRIL S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30						1
2 Week 18	3	4	5	6	7	8
9	10	11	12	13	14	15
Week 19						
16	17	18	19	20	21	22
Week 20						
23 30 Memorial Day	24 31	25	26	27	28	29
		Service Control				
	Faktroniy . ov	or 20 auvili	ary instrume	nte complon	nant the line	

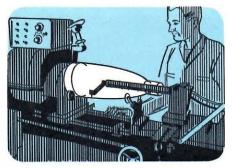
Tektronix · over 30 auxiliary instruments complement the line.



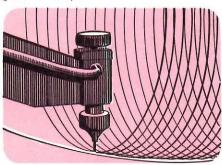
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
MAY S M T W T F S 1 2 3 4 5 6 7 8		1	2	3	4	5
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31						
6	7	8	9	10	11	12
Week 23						
13 Week 24	14	15	16	17	18	19
20	21	22	23	24	25	26
Week 25						
27	28	29	30			
Week 26						
			0			

Tektronix · makes more than 50 oscilloscopes to meet every need.

CRT HELIX WINDING APPLICATION



As shown in this drawing, the CRT envelope is held in place as on a lathe, where it is revolved automatically as the graphite is applied by a specially designed pen in its continuous spiral helix inside the glass envelope.



The machine must be capable of applying the graphite helix in exacting thickness, in varying widths and spiral spacing—all calibrated so as to create uniform acceleration of the electron beam on its path to the CRT display face.

CRT HELIX WINDING APPLICATION

A helix of graphite is deposited inside the cathode-ray tube. The effect of distributed resistance in the helix (as opposed to the lumped effect in previous band designs) is uniform beam acceleration, improved vertical linearity, and smaller spot size.

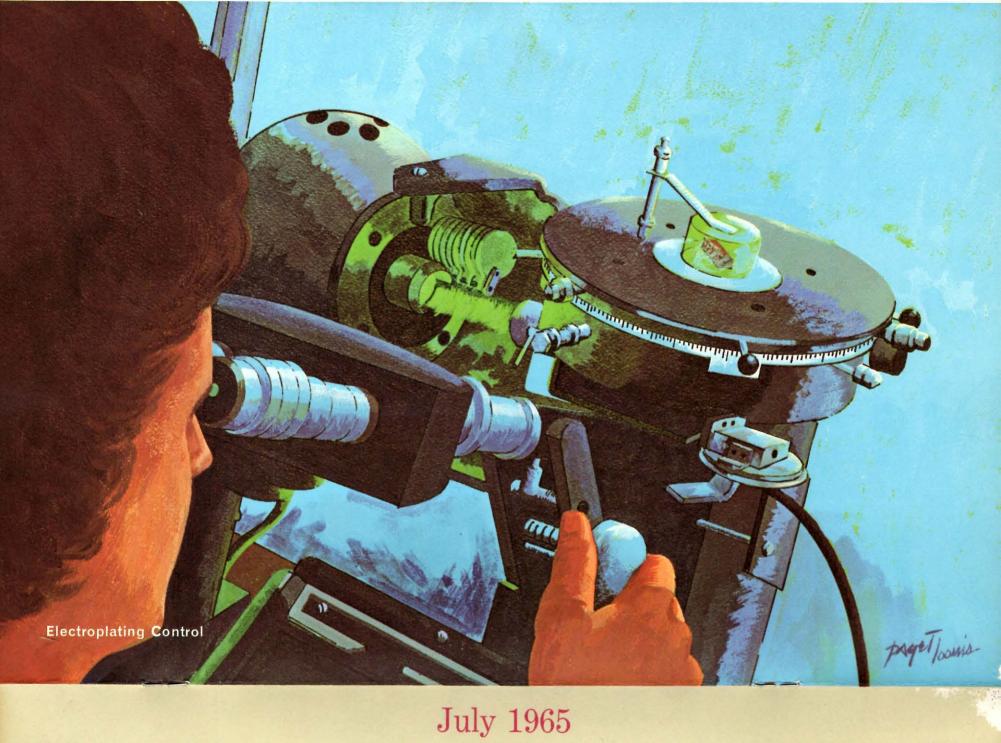
The idea of helix winding was not new, but manufacturing problems were numerous. Tektronix engineers met the challenge and perfected the technique: a milestone in cathode-ray tube development.





TEKTRONIX pocket CALENDAR

June



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
JUNE S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				1	2	3
4	5	6	7	8	9	10
Independence Day						
11	12	13	14	15	16	17
Week 28						
18	19	20	21	22	23	24
Week 29						
25	26	27	28	29	30	31
Week 30						
-						

Tektronix · customer training available at plant or point of use.

ELECTROPLATING CONTROL



The operator of the metallograph is trained for the painstaking effort required to check out or photograph plating surfaces.

ELECTROPLATING CONTROL

The Electrochemical Department at Tektronix performs such processes as electroplating, photo etching, photo anodizing, photo lithography, and electrochemical etching. To certify exact tolerances, the department maintains a Metallographic Laboratory with traceability to the National Bureau of Standards.

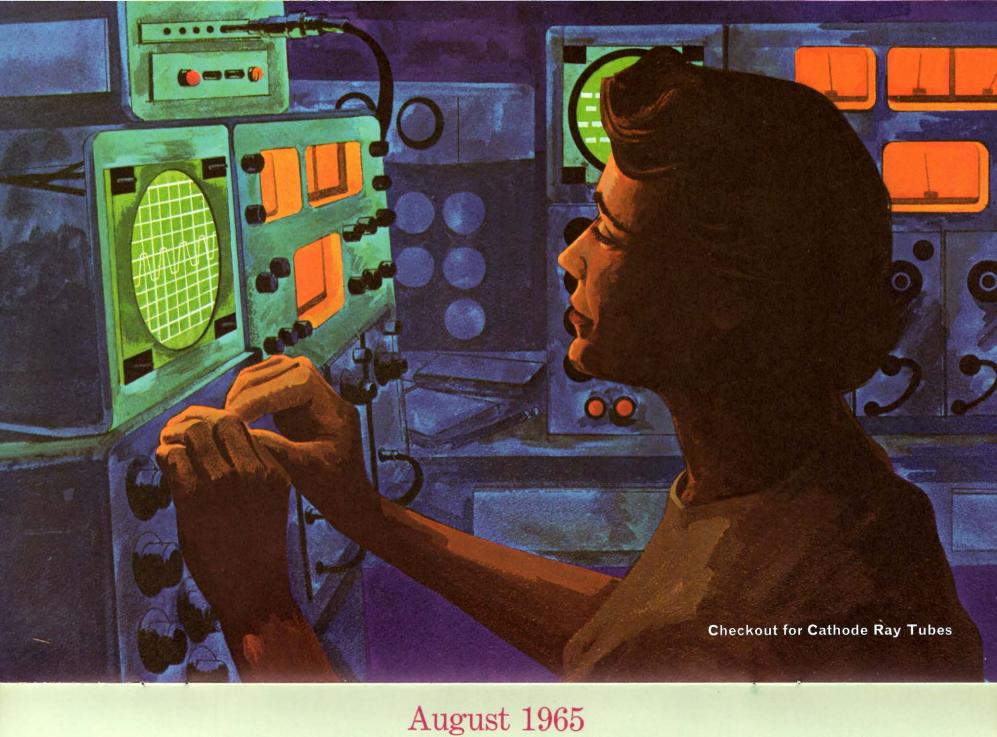
Samples from each production batch are prepared for examination and studied with instruments such as the metallograph. This precision optical device allows magnification of up to 2000X for direct viewing or photography. Color photography allows detailed study of crystal structure and plating thickness—vital considerations for components such as cathode cups in cathode-ray tubes.





TEKTRONIX pocket CALENDAR

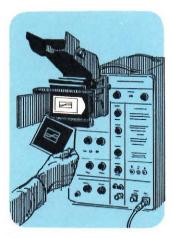
July



			ragase rev			
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
Week 31						
8	9	10	11	12	13	14
Week 32						
15	16	17	18	19	20	21
Week 33					*	
22	23	24	25	26	27	28
Week 34						
29 Week 35	30	31				JULY S M T W T F S 1 2 3 4 5 6 7 8 9 10
vveek 35						11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Tektronix · where quality assurance begins with employee attitude.

CHECKOUT FOR CATHODE-RAY TUBES

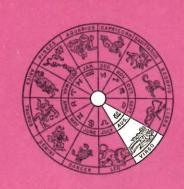


The Tektronix Quality Assurance program carries through all accessories and auxiliary products, such as the trace recording camera shown here. Instruments that receive 100% performance checkouts include Sampling Systems, Inductance and Capacitance Meters, various Wave and Pulse Generators, Amplifiers, Probes and the many Plug-in Units.

CHECKOUT FOR CATHODE-RAY TUBES

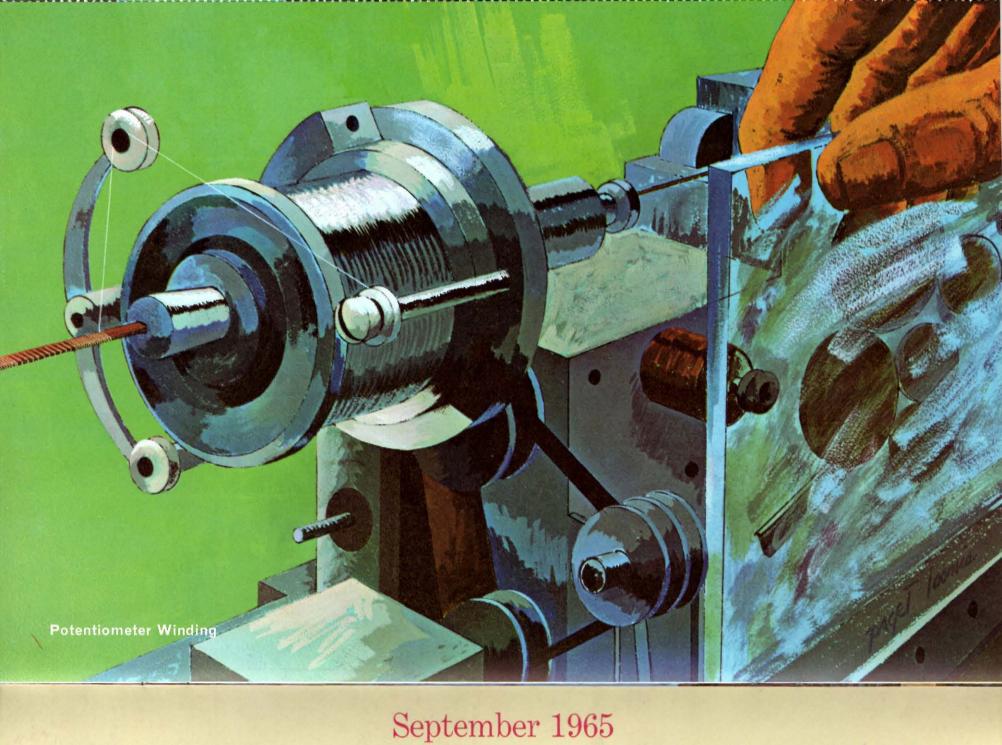
Final performance checks are made on each tube prior to shipment. Every tube is tested under simulated oscilloscope operating conditions. The operator (as depicted in our color illustration for August) checks geometry, focus, beam registration and other pertinent characteristics. This 100% quality control helps to insure maximum performance and satisfaction.





$\begin{array}{c} \mathsf{TEKTRONIX} \\ pocket \\ \mathsf{CALENDAR} \end{array}$

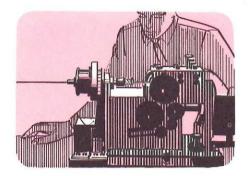
August



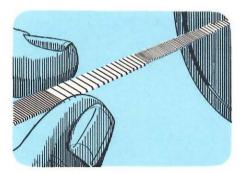
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
AUGUST S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			1	2	3	4
5 Week 36	6 Labor Day	7	8	9	10	11
12 Week 37	13	14	15	16	17	18
19 Week 38	20	21	22	23	24	MOON BOUNCE
26 Week 39	27	28	29	30		

Tektronix · world-wide service by over 30 overseas representatives.

POTENTIOMETER WINDING



By changing cams the operator can establish the desired ratio of inductance to resistance—a critical ratio for optimum transient response.



Here's a close-up showing how the winding is varied by the cam setting described above. This winding machine is thus able to maintain close consistency from one potentiometer to the next.

POTENTIOMETER WINDING

Variable amplifier gain controls used in Tektronix Oscilloscopes are individually designed to meet the requirements of a particular circuit. Shown above the September calendar is the special potentiometer winding machine (designed to handle wire thinner than human hair). Each potentiometer is checked with a storage oscilloscope, to display the effect of each turn of wire, and assure a dependable component.



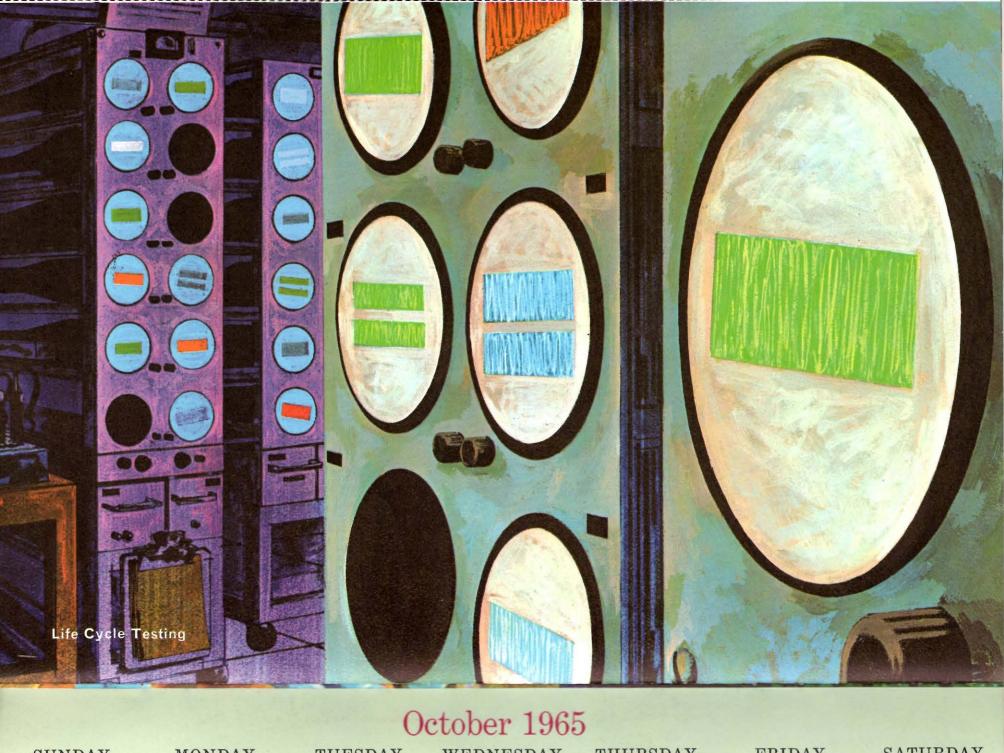


TEKTRONIX

pocket

CALENDAR

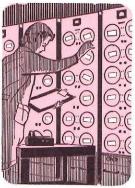
September



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SEPTEMBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30					1	2
3 Week 40	4	5	6	7	8	9
10 Week 41	11	12	13	14	15	16
17 Week 42	18	19	20	21	22	23
24 31 Week 43	25	26	27	28	29	30

Tektronix · over 50 plug-in units add versatility to your oscilloscope.

LIFE CYCLE TESTING



As the sample cathode-ray tubes are run, they are periodically checked on various performance points and the results recorded.



Performance data and date checked are recorded right on the CRT face. This life expectancy test is one of the most revealing in Tektronix' quality assurance program.

LIFE CYCLE TESTING

Engineering prototype cathode-ray tubes, and tubes sampled at random from each manufacturing lot, undergo accelerated life testing to determine useful life. Our October painting captures the intriguing patterns of color established by various types of CRT's on the test racks.

A sample must prove acceptable before a lot is released for use. The life-testing program also provides data used to evaluate design and manufacturing techniques, to produce tubes with longer life expectancy, and to insure that present tubes give maximum performance during their lifetime.





TEKTRONIX

pocket

CALENDAR

October



November 1965 WEDNESDAY THURSDAY FRIDAY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
OCTOBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1	2	3	4	5	6
7 Week 45	8	9	10	11	12	13
14 Week 46	15	16	17	18	19	20
21 Week 47	22	23	24	25 Thanksgiving	26	27
28 Week 48	29	30				

Tektronix · the standard of comparison in electronic measurement.

COAXIAL CABLE WINDING



November's color illustration is the artist's interpretation of the speed and intricacy of the cable-winding equipment pictured above. Tektronix uses several of these machines in the Cable Department, where they are capable of sheathing wire as well.



A typical delay line maintains excellent transient response with 150-nsec delay and 250-Mc bandpass. The cross-wound pattern of this push-pull delay-line cable doubles the effective distributed inductance, thereby decreasing the required length by one-half.

COAXIAL CABLE WINDING

Some years ago, Tektronix became the manufacturer of cables used in attenuator probes, signal delay lines, and multiconductor applications in order to satisfy exacting specifications from their design engineers.

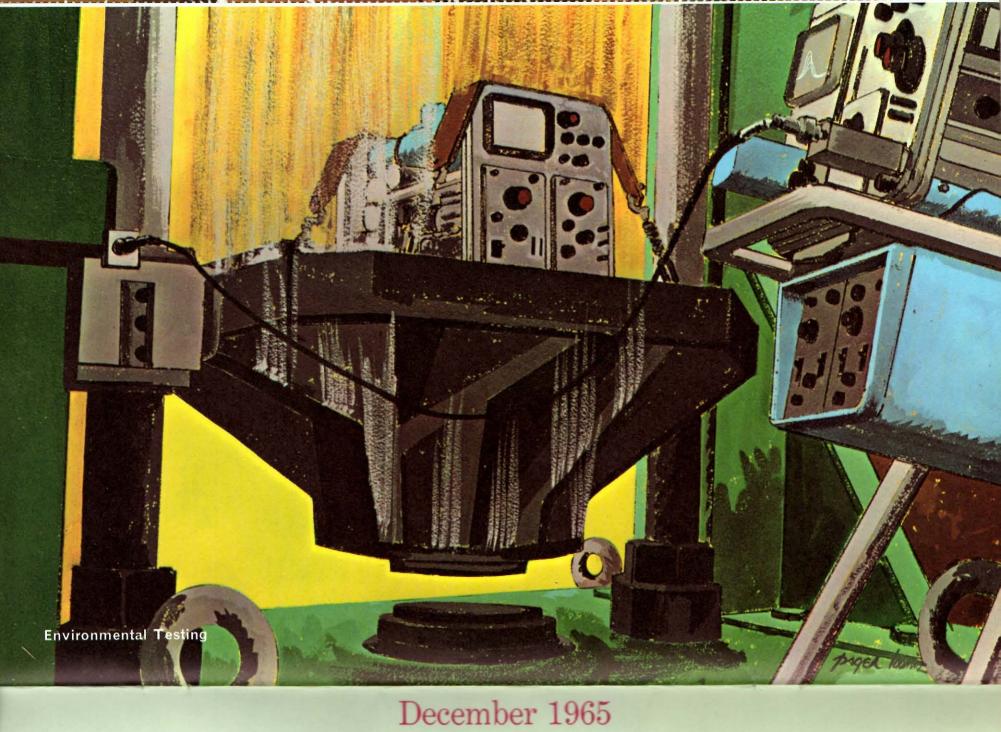
The customer can be assured that each design is appropriate to its application, and that exact specifications (capacitance, delay time, etc.) are met through rigid quality control by testing each cable.





TEKTRONIX pocket CALENDAR

November



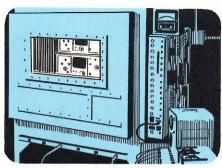
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
NOVEMBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	MONDAT	TODSDIT	1	2	3	4
5 Week 49	6	7	8	9	10	11
12 Week 50	13	14	15	16	17	18
19 Week 51	20	21	22	23	24	25 Christmas
26 Week 52	27	28	29	30	31	

Tektronix · now offering new spectrum analysis plug-in unit.

ENVIRONMENTAL TESTING



Shock forces measured in scores of G's are applied to Tektronix oscilloscopes on this drop-test apparatus weighing several tons. The shock wave is recorded on another storage oscilloscope.



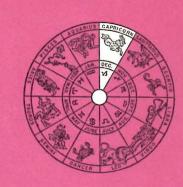
In this custom-built freezer, oscilloscopes are subjected to temperatures far below freezing to learn how it may affect their operation.

ENVIRONMENTAL TESTING

A new cathode-ray tube undergoes a vibration test, a portable oscilloscope is heated in an oven, radio frequency interference is monitored in a double-wall steel room, fungus attempts to grow on an oscilloscope chassis, a high-voltage power supply is evaluated in an altitude simulator—these and many other tests are performed in our environmental laboratory. Shown in our main illustration for December is an oscilloscope being subjected to a drop-shock test.

Tektronix constantly strives to improve its products, both electrically and mechanically. Environmental testing is just another way in which we express our continuing creed: serving Tektronix customers with products and policies that are unexcelled in the electronics industry and limited only by the current state of the art.





TEKTRONIX pocket CALENDAR

December