

ETRON

CIRCUIT LABS

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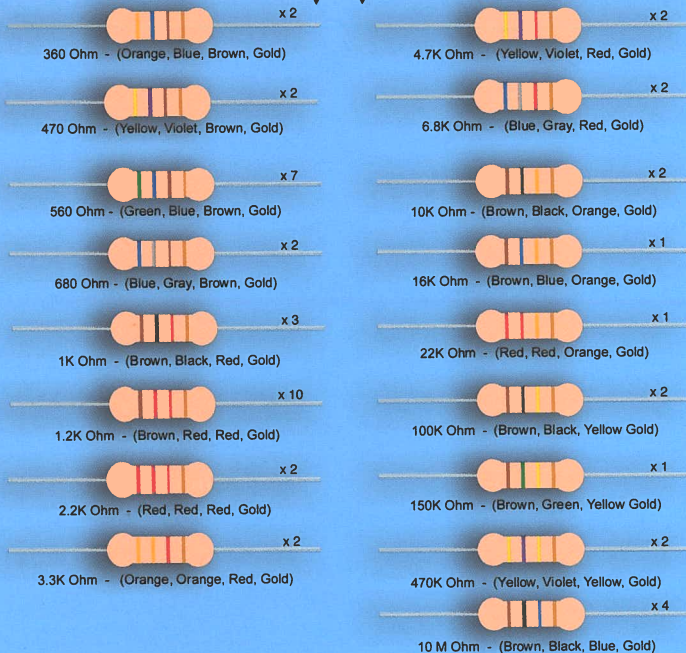
Part #	# in Lab	Description	Price	QTY Ordered	Total
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SK05004	1	47 Mfd Capacitor	\$0.25		
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SK14004	1	IC 555 Timer	\$0.39		
SK33008	1	100K Potentiometer	\$1.20		
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SK18001	1	2N3904 Transistor	\$0.19		
SK18002	1	2N3906 Transistor	\$0.19		
CB222	1	Large Solderless Circuit Board	\$6.95		
SK9VB	1	9-Volt Battery	\$0.79		
ETCL2		Digital Basics Complete Lab	\$41.95		
ETCM2		Digital Theory Manual	\$14.95		
ETCP2		Digital Theory Complete Parts Set	\$19.95		
		(Does not include Board or Battery)			
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RESISTORS

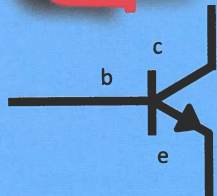
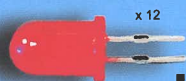


POTENTIOMETER

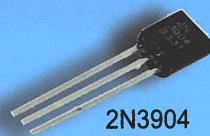


THE PARTS BAG ALSO INCLUDES 56 SOLID WIRES THAT WILL BE USED TO COMPLETE THE LABS CONTAINED WITHIN THIS MANUAL.

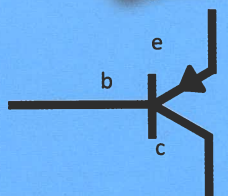
LIGHT EMITTING DIODE



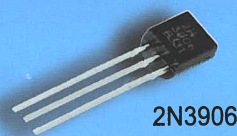
NPN TRANSISTOR



PUSH BUTTON SWITCH



PNP TRANSISTOR



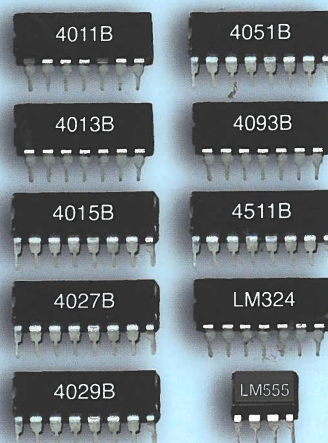
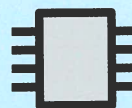
LESSON 1 COMPONENT REVIEW

Objective

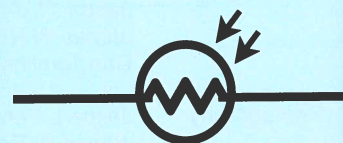
In this lesson you will have the opportunity to feel, touch and hold all the electronic components needed to complete the Labs in this manual.

Take the components and match them up with the pictures on this page. By referring back to this page as a reference you'll familiarize yourself with the schematic symbol associated with each different component used in these Labs.

INTEGRATED CIRCUITS



PHOTOCELL



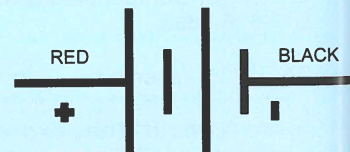
SEVEN SEGMENT DISPLAY



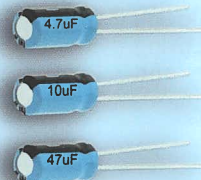
DIODE



BATTERY



ELECTROLYTIC CAPACITORS CERAMIC DISC CAPACITORS



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CIRCUIT LABS

DIGITAL THEORY™

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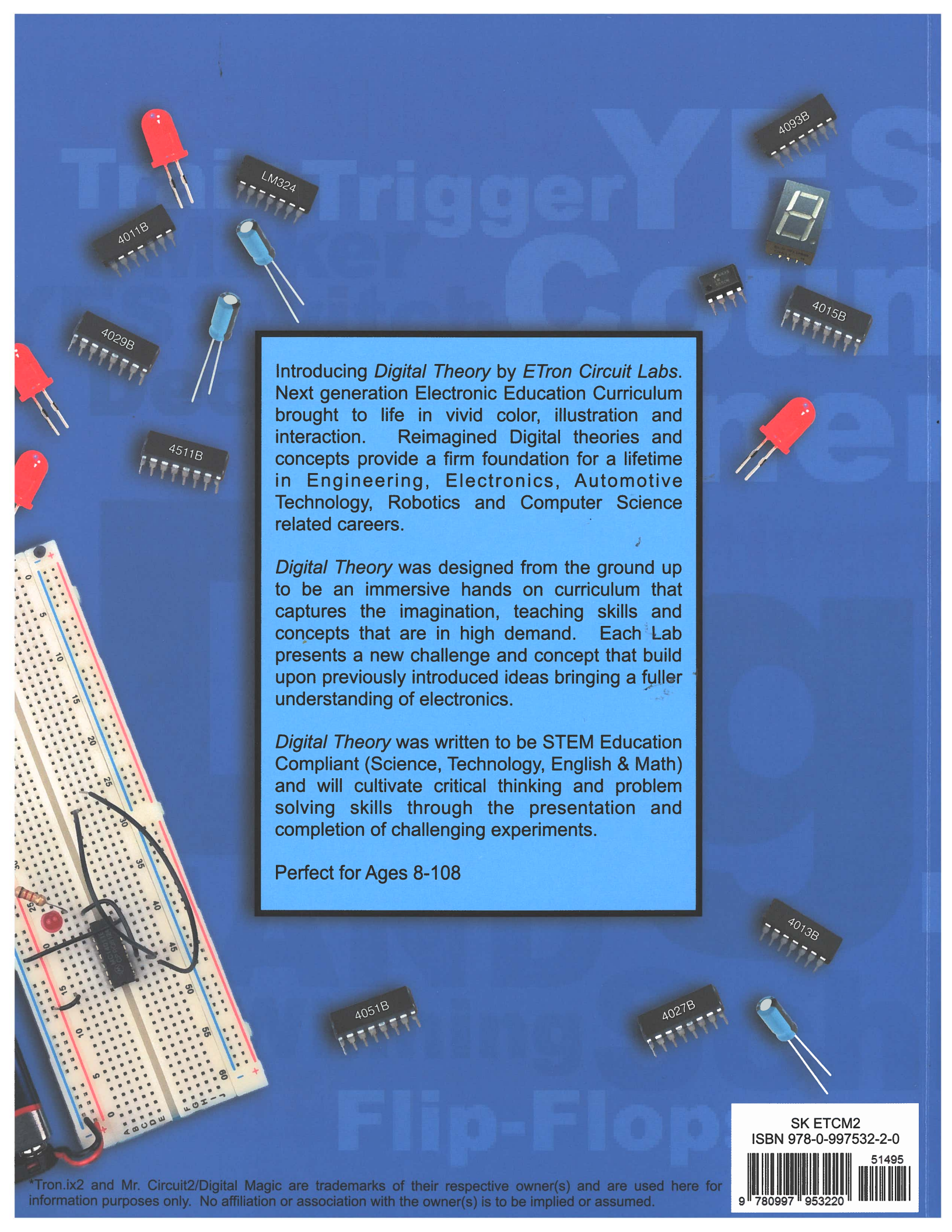
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R.I.P
Jaime L. Pereira
April 6, 1965 - August 28, 2015
This manual is dedicated to the loving memory of Jaime L. Pereira. Loving Husband, Father, Son, Brother and Friend.



Introducing *Digital Theory* by ETron Circuit Labs. Next generation Electronic Education Curriculum brought to life in vivid color, illustration and interaction. Reimagined Digital theories and concepts provide a firm foundation for a lifetime in Engineering, Electronics, Automotive Technology, Robotics and Computer Science related careers.

Digital Theory was designed from the ground up to be an immersive hands on curriculum that captures the imagination, teaching skills and concepts that are in high demand. Each Lab presents a new challenge and concept that build upon previously introduced ideas bringing a fuller understanding of electronics.

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