



Surface mount LEDs



Where, why, and how







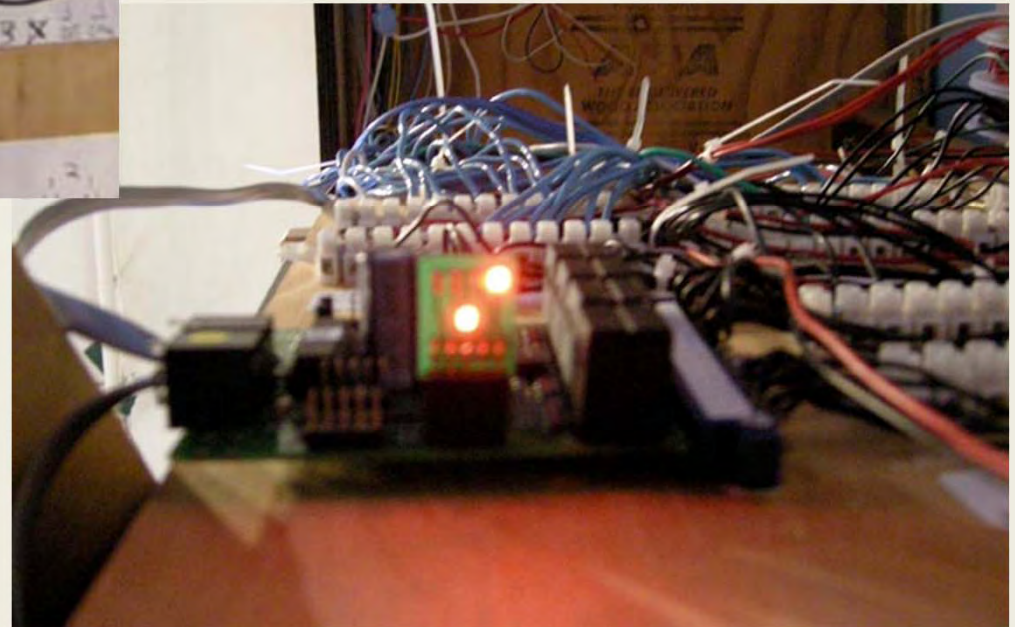




Photo by Gary Morris @ railpictures.net

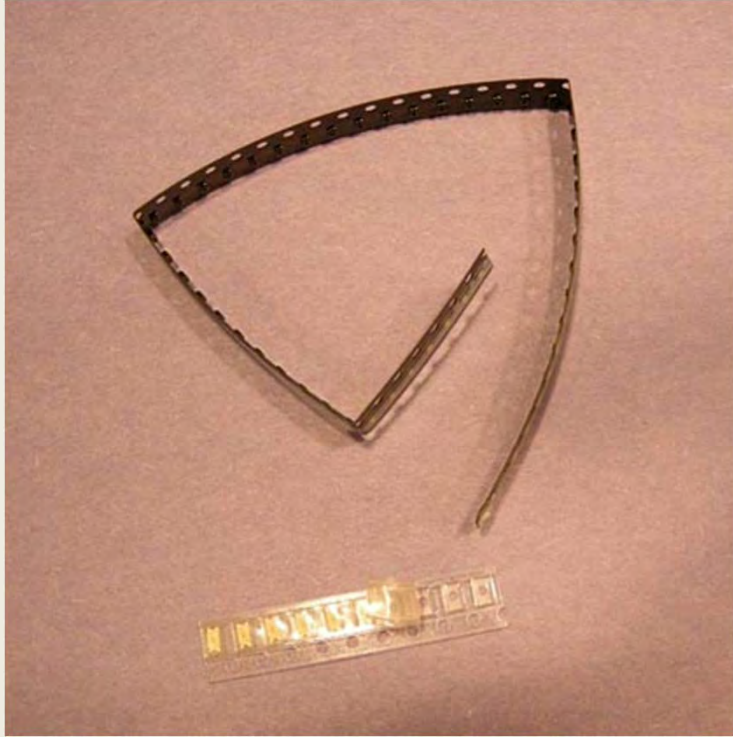














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☐ Stocked ☐ RoHS Compliant

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

All Manufacturers

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Standard LED - SMD (5,598 Matches)

LED Size	Illumination Color	Lens Color/Style	Operating Voltage	Package / Case	Wavelength	Luminous Intensity
1 mm x 0.5 mm	Amber	Clear	1.6 V	0402	383 nm	0.71 mcd to 1.8 mcd
1.2 mm x 0.6 mm X 0.5 mm	Amber, Blue	Clear, Yellow Tinted	1.7 V	0404	395 nm	1.1 mcd
1.2 mm x 0.8 mm X 0.37 mm	Amber, Green	Colorless Clear	1.7 V to 2.3 V	0603	428 nm	1.12 mcd to 2.8 mcd
1.25 mm x 2 mm	Amber, True Green, Blue	Colorless Diffused	1.7 V, 2 V	0604	430 nm	1.2 mcd
1.3 mm x 0.7 mm X 0.525 mm	Amber, Yellow	Diffused	1.7 V, 2.1 V	0605	457 nm, 624 nm, 525 nm	1.4 mcd (Max)
1.3 mm x 0.8 mm X 0.525 mm	Amber/Blue/Green	Green Diffused	1.7 V, 2.2 V	0606	460 nm to 475 nm	1.5 mcd
1.4 mm x 2 mm	Amber/Green	Green Transparent	1.7 V, 2.2 V, 4.5 V	0802	462 nm	1.6 mcd

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Buy Selected		Compare Selected		Compare up to 20 parts.																	Page: 1 2 3 4 5 6 7 8 9 10 ... 224 Next										
Select	Image	Mouser Part #	Mfr. Part #	Mfr.	Description	Availability	Pricing (USD)	Quantity	RoHS	LED Size	Illumination Color	Lens Color/Style	Operating Voltage	Package / Case	Wavelength	Luminous Intensity	Mounting Style	Operating Current	Viewing Angle	Packaging											
<input type="checkbox"/>	<div><div>Enlarge</div></div>	889-KWT801S	KWT801S	Seoul Semiconductor	Standard LED - SMD White	Page 101 In Stock	1: \$0.90 10: \$0.78 50: \$0.72 100: \$0.60 500: View Reel of 2,000: \$0.48	Min.: 1 Mult.: 1 Reel: 2,000	<div><div>Details</div></div>	3.2 mm x 2.8 mm	White		3.2 V				1200 mcd to 2100 mcd	SMD/SMT	20 mA	120 deg	Reel										
<input type="checkbox"/>	<div><div>Enlarge</div></div>	889-C9WT728	C9WT728	Seoul Semiconductor	Standard LED - SMD White 4800mcd 3.2V 60mA	Page 101 In Stock	1: \$1.29 10: \$1.12 50: \$1.03 100: \$0.86 500: View Reel of 1,000: \$0.73	Min.: 1 Mult.: 1 Reel: 1,000	<div><div>Details</div></div>	5 mm x 5 mm	White		3.2 V				4800 mcd	SMD/SMT	60 mA	120 deg	Reel										
<input type="checkbox"/>	<div><div>Enlarge</div></div>	889-C9WT803	C9WT803	Seoul Semiconductor	Standard LED - SMD White 1800mcd 3.2V 20mA	Page 101 In Stock	1: \$0.78 10: \$0.68 50: \$0.62 100: \$0.52 500: View Reel of 3,000: \$0.42	Min.: 1 Mult.: 1 Reel: 3,000	<div><div>Details</div></div>	3 mm x 2 mm	White		3.2 V	PLCC-2			1500 mcd	SMD/SMT	20 mA	115 deg	Reel										
<input type="checkbox"/>	<div><div>Enlarge</div></div>	889-C9WT821	C9WT821	Seoul Semiconductor	Standard LED - SMD White 4500mcd 3.3V 60mA	Page 101 In Stock	1: \$1.08 10: \$0.94 50: \$0.86 100: \$0.72 500: View	Min.: 1 Mult.: 1	<div><div>Details</div></div>	3.2 mm x 2.8 mm	White		3.3 V				4500 mcd	SMD/SMT	60 mA	120 deg	Reel										

PREV

NEXT

LITE-ON LEDs

LITEON



This product is RoHS compliant.

ULTRA THIN 0603 LEDs

PRODUCT **NEW**

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Pkg.	Color Source	Lens	Peak Wave length (nm)	Lumin. Intensity (typ.) (mcd)	Fwd. Volt (typ.)	Price Each		
Mfr.	Mfr. Part No.							1	10	100
130° Viewing Angle										
859	LTST-C194KRKT	0603	Red	Clear	631	14	1.9	.10	.09	.072
859	LTSTC193KRKT5A	0603	Red	Clear	631	45	2.3	.10	.09	.072
859	LTST-C194KFKT	0603	Amber	Clear	605	28	1.9	.10	.09	.072
859	LTSTC193KFKT5A	0603	Amber	Clear	605	30	2	.10	.09	.072
859	LTSTC193KSKT5A	0603	Yellow	Clear	589	45	2.3	.10	.09	.081
859	LTST-C194KSKT	0603	Yellow	Clear	589	112	1.9	.10	.09	.072
859	LTST-C194KGKT	0603	Green	Clear	571	12	1.9	.10	.09	.072
859	LTSTC193KGKT5A	0603	Green	Clear	571	12	1.9	.10	.09	.072
859	LTSTC193TGKT5A	0603	Green	Clear	525	28	3.1	.56	.50	.40
859	LTST-C194TGKT	0603	Green	Clear	525	90	2.9	.56	.50	.40
859	LTSTC193TBKT5A	0603	Blue	Clear	470	15	2.8	.28	.25	.20
859	LTST-C194TBKT	0603	Blue	Clear	470	28	2.9	.28	.25	.20
859	LTW-C194TS5	0603	White	Yellow	(0.30, 0.29)	71	2.9	.24	.21	.170

SURFACE MOUNT LEDs

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Pkg.	Color Source	Lens	Peak Wave length (nm)	Lumin. Intensity (typ.) (mcd)	Fwd. Volt (typ.)	Price Each		
Mfr.	Mfr. Part No.							1	10	100
130° Viewing Angle										
859—	LTST-C190CKT	0603	Red	Clear	660	10	1.8	.11	.10	.08
859—	LTST-S270CKT	0603	Red	Clear	660	16	1.8	.13	.12	.092
859—	LTST-S270KRKT	0603	Red	Clear	639	54	2	.14	.13	.10
859—	LTST-C190KRKT	0603	Red	Clear	639	54	2	.12	.11	.088
859—	LTST-C191KRKT	0603	Red	Clear	639	54	2	.14	.13	.10
859—	LTST-C192KRKT	0603	Red	Clear	639	54	2	.15	.13	.10
859—	LTST-S270EKT	0603	Red	Clear	630	4	2	.12	.11	.084
859—	LTST-C190EKT	0603	Red	Clear	630	6	2	.10	.09	.072
859—	LTST-C190KFKT	0603	Orange	Clear	611	60	2	.12	.11	.088

SURFACE MOUNT LEDs (CONT.)

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Pkg.	Color Source	Lens	Peak Wave length (nm)	Lumin. Intensity (typ.) (mcd)	Fwd. Volt (typ.)	Price Each		
Mfr.	Mfr. Part No.							1	10	100
130° Viewing Angle (Cont.)										
859—LTST-C171TBKT	0805	Blue	Clear	468	30	3.4	.34	.30	.24	
859—LTST-S220TBKT	0805	Blue	Clear	468	28-112	28-112	.34	.30	.24	
859—LTST-C170TBKT	0805	Blue	Clear	468	28-112	2.8-3.8	.34	.30	.24	
859—LTW-270TLA	0805	White	Yellow	-	95	3	.36	.32	.25	
859—LTW-170TK	0805	White	Yellow	-	112-450	2.8-3.8	.36	.32	.25	
859—LTST-C150CKT	1206	Red	Clear	660	25	1.8	.13	.12	.092	
859—LTST-C150KRKT	1206	Red	Clear	639	54	2	.14	.13	.10	
859—LTST-C230KRKT	1206	Red	Clear	639	54	2	.15	.13	.10	
859—LTST-S110KRKT	1206	Red	Clear	639	54	2	.15	.13	.10	
859—LTST-C230CKT	1206	Red	Clear	638	25	1.8	.13	.12	.10	
859—LTST-C150EKT	1206	Red	Clear	630	6	2	.12	.11	.084	
859—LTST-C230EKT	1206	Red	Clear	630	6	2	.12	.11	.088	
859—LTST-C150KFKT	1206	Orange	Clear	611	60	2	.14	.13	.10	
859—LTST-C230KFKT	1206	Orange	Clear	611	60	2	.15	.13	.10	
859—LTST-S110KFKT	1206	Orange	Clear	611	80	2	.15	.13	.10	
859—LTST-C230AKT	1206	Amber	Clear	610	4.5	2.1	.12	.11	.088	
859—LTST-C150AKT	1206	Amber	Clear	610	6	2.1	.12	.11	.084	
859—LTST-C230KSKT	1206	Yellow	Clear	588	60	2	.15	.13	.10	
859—LTST-S110KSKT	1206	Yellow	Clear	588	80	2	.15	.13	.10	
859—LTST-C150KSKT	1206	Yellow	Clear	588	28-112	1.8-2.4	.14	.13	.10	
859—LTST-C230YKT	1206	Yellow	Clear	585	4.5	2.1	.12	.11	.088	
859—LTST-C150YKT	1206	Yellow	Clear	585	6	2.1	.12	.11	.084	
859—LTST-C150KGKT	1206	Green	Clear	574	18-71	1.9-2.4	.14	.13	.10	
859—LTST-C230KGKT	1206	Green	Clear	574	35	2	.15	.13	.10	
859—LTST-S110KGKT	1206	Green	Clear	574	50	2	.15	.13	.10	
859—LTST-C150GKT	1206	Green	Clear	565	6	2.1	.12	.11	.084	
859—LTST-C230GKT	1206	Green	Clear	565	14	2.1	.12	.11	.088	
859—LTST-C150TGKT	1206	Green	Clear	530	150	3.4	1.12	1.00	.80	
859—LTST-C150TBKT	1206	Blue	Clear	468	28-112	2.8-3.8	.34	.30	.24	
859—LTST-C230TBKT	1206	Blue	Clear	468	28-112	2.8-3.8	.34	.30	.24	
859—LTST-S110TBKT	1206	Blue	Clear	468	60	2.8-3.8	.34	.30	.24	
859—LTW-150TK	1206	White	Yellow	280	2.2	2.2	.28	.25	.25	

Lighting

Lighting

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.		Pkg.	Color Source	Lens	Peak Wave length (nm)	Lumin. Intensity (typ.) (mcd)	Fwd. Volt (typ.)	Price Each		
Mfr.	Mfr. Part No.							1	10	100
130° Viewing Angle (Cont.)										
859—LTST-C171TBKT		0805	Blue	Clear	468	30	3.4	.34	.30	.24
859—LTST-S220TBKT		0805	Blue	Clear	468	28-112	28-112	.34	.30	.24
859—LTST-C170TBKT		0805	Blue	Clear	468	28-112	2.8-3.8	.34	.30	.24
859—LTW-270TLA		0805	White	Yellow	-	95	3	.36	.32	.25
859—LTW-170TK		0805	White	Yellow	-	112-450	2.8-3.8	.36	.32	.25
859—LTST-C150CKT		1206	Red	Clear	660	25	1.8	.13	.12	.092
859—LTST-C150KRKT		1206	Red	Clear	639	54	2	.14	.13	.10



Product Detail

All Products » Optoelectronics » LED Indication » Standard LED - SMD » LTW-170TK



Mouser Part #: 859-LTW-170TK
Manufacturer Part #: LTW-170TK
Manufacturer: Lite-On
Description: Standard LED - SMD White 280MCD

[Page 138, Mouser Enhanced Catalog](#)
[Page 138, PDF Catalog Page](#)
[Data Sheet](#)

Availability

Stock: 4,783 Can Ship Immediately

On Order: 12000 [View Delivery Dates](#)

Factory Lead-Time: 10 Weeks

Enter Quantity:

Minimum: 1

[Buy](#)

Multiples: 1

Select Packaging Option Below

Customers Also Bought...

Specifications

Documents

My Notes

Manufacturer:	Lite-On	<input checked="" type="checkbox"/>
Product Category:	Standard LED - SMD	<input checked="" type="checkbox"/>
RoHS:	Details	
LED Size:	2 mm x 1.25 mm	<input checked="" type="checkbox"/>
Illumination Color:	White	<input type="checkbox"/>
Operating Voltage:	2.8 V to 3.8 V	<input type="checkbox"/>
Package / Case:	0805	<input type="checkbox"/>
Luminous Intensity:	112 mcd to 450 mcd	<input type="checkbox"/>
Mounting Style:	SMD/SMT	<input type="checkbox"/>
Operating Current:	20 mA	<input type="checkbox"/>
Viewing Angle:	130 deg	<input type="checkbox"/>
Packaging:	Reel	<input type="checkbox"/>
Lens Shape:	Rectangular	
Maximum Operating Temperature:	+ 80 C	
Minimum Operating Temperature:	- 20 C	

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☐ Cut Tape

1: \$0.36

10: \$0.32

50: \$0.29

100: \$0.25

500: \$0.22

1,000: \$0.21

2,000: \$0.197

☐ MouseReel™ Reel Service Fee \$7.00

Price will be calculated in cart.

☐ Full Reels of 3000

To purchase full reel, order in multiples of 3000:

3,000: \$0.197

5,000: \$0.184

10,000: \$0.171

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☐ Reel and Cut Tape☐ Reel and MouseReel™

Reel Service Fee \$7.00

MouseReel™ price is calculated in the cart.
All MouseReel™ orders are non-returnable.

Ohm's law

$$\frac{+V - (V \text{ led})}{\text{Current}} = R$$

$$\frac{12\text{v}-3\text{v}}{.02} = 450 \text{ ohm resistor}$$

$$\text{Power (wattage)} = 9\text{v} \times .02\text{A} = .18\text{Watts}$$

Thin Film Resistors

http://www.mouser.com/Passive-Components/Resistors/Surface-Mount-Resistors/Thin-Film-Resistors/_/N-7 RSS Google

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Thin Film Resistors (49,200 Matches)

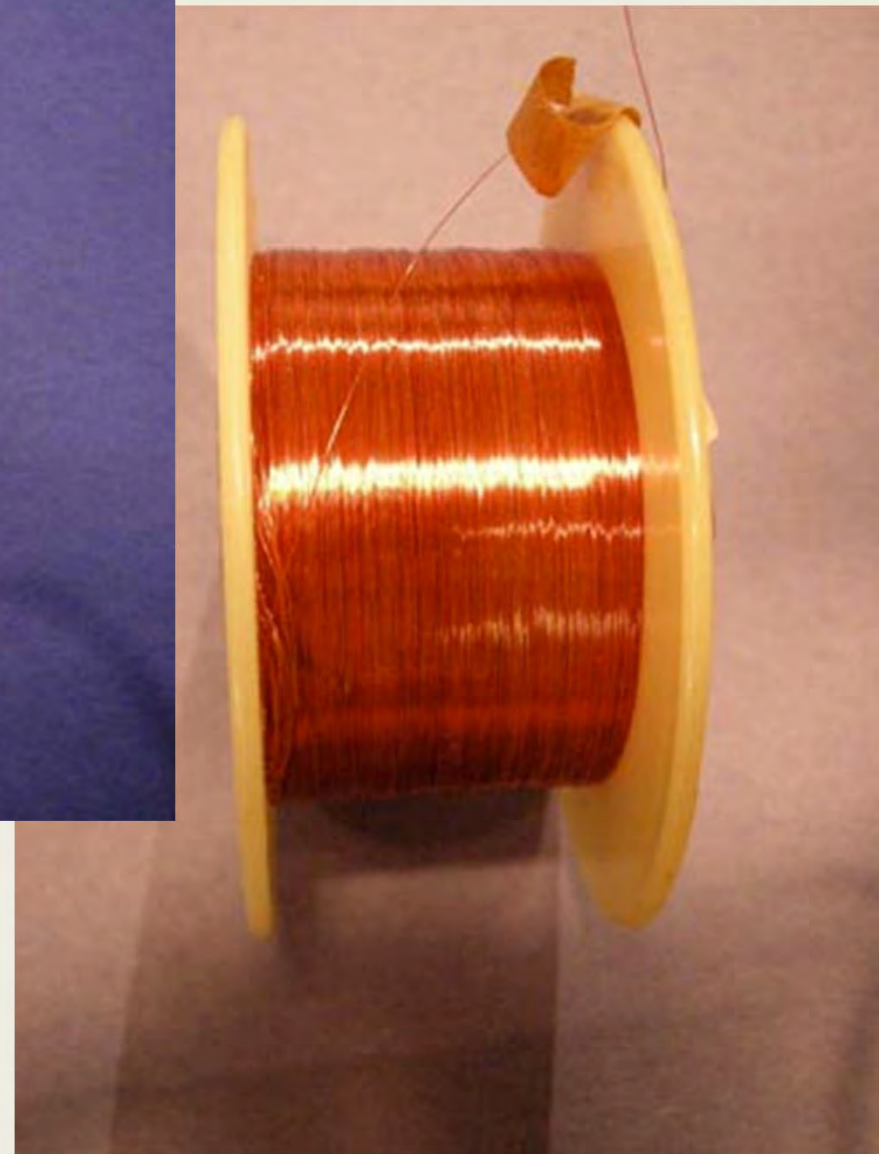
Resistance	Tolerance	Temperature Coefficient	Package / Case	Power Rating	Series	Voltage Rating	Operating Temperature Range	Termination Style	Dimensions
493 Ohms	0.01 %	+/- 5 PPM / C	0102 metric	0.125 Watt (1/8 Watt)	16	15 Volts	- 65 C to + 125 C	MELF	0.02 mm W x 0.039 mm L x 0.36 mm H
499 Ohms	0.02 %	+/- 5 PPM / K	0201 (0603 metric)	125 mWatts	288	20 Volts	- 65 C to + 150 C	SMD/SMT	0.031 mm W x 0.063 mm L x 0.457 mm H
500 Ohms	0.05 %	+/- 10 PPM / C	0204 (0510 metric)	0.15 Watt	2312	25 Volts	- 55 C to + 125 C		0.063 mm W x 0.126 mm L
505 Ohms	0.1 %	+/- 10 PPM / K	0204 (3715 metric)	150 mWatts	2322	35 Volts	- 55 C to + 150 C		0.063 mm W x 0.126 mm L x 0.016 mm H
510 Ohms	0.25 %	+/- 15 PPM / C	0204 metric	0.2 Watt (1/5 Watt)	288-0603	50 Volts	- 55 C to + 155 C		0.063 mm W x 0.126 mm L x 1.6 mm H
511 Ohms	0.5 %	+/- 15 PPM / K	0207 (6123 metric)	200 mWatts	288-0805	75 Volts	- 10 C to + 85 C		0.25 mm Dia. x 0.5 mm W x 1 mm L x 0.35 mm H
517 Ohms	1 %	+/- 20 PPM / C	0207 metric	0.25 Watt (1/4 Watt)	98	100 Volts	0 C to + 125 C		0.3 mm Dia. x 0.8 mm W x 1.6 mm L x 0.45 mm H

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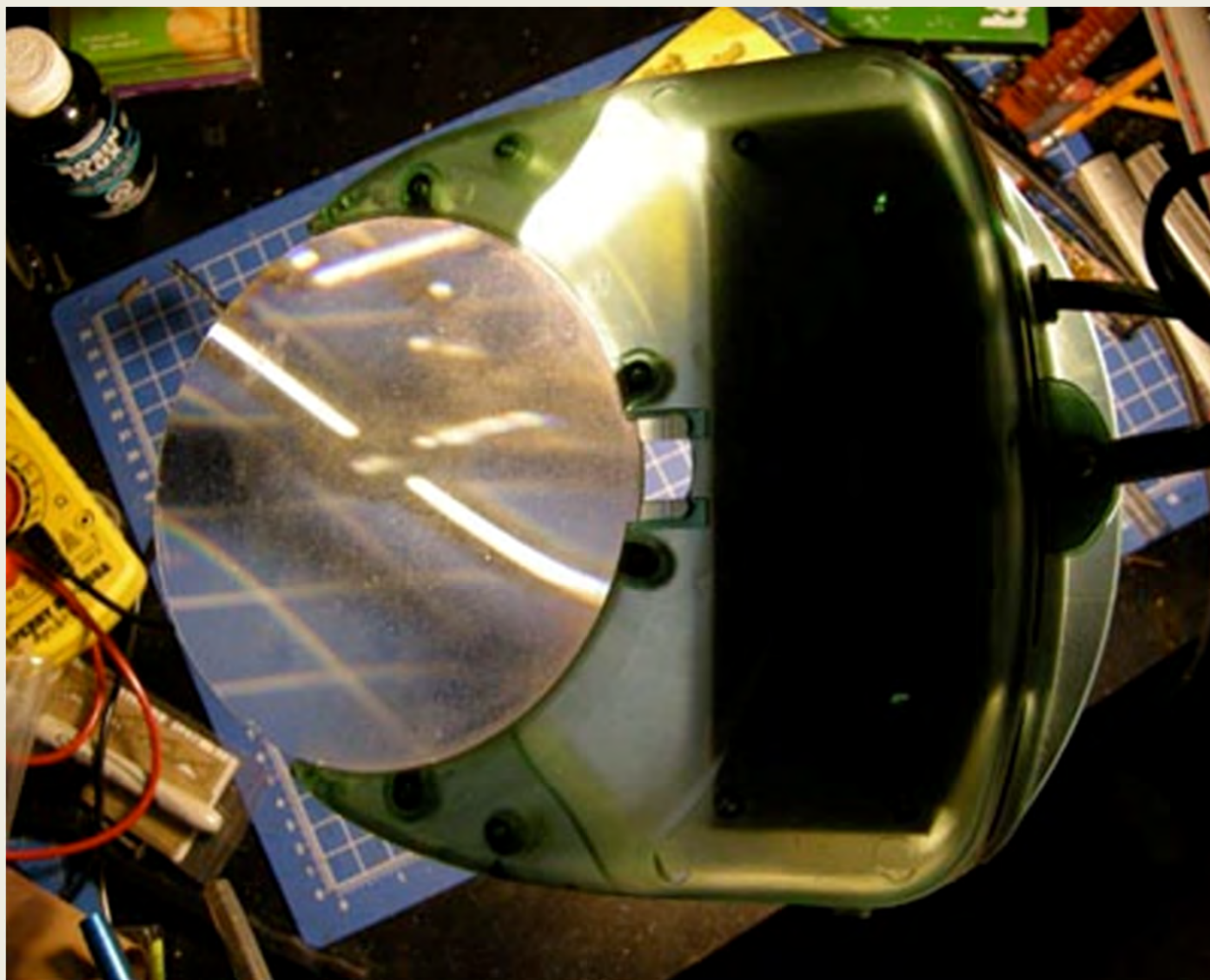


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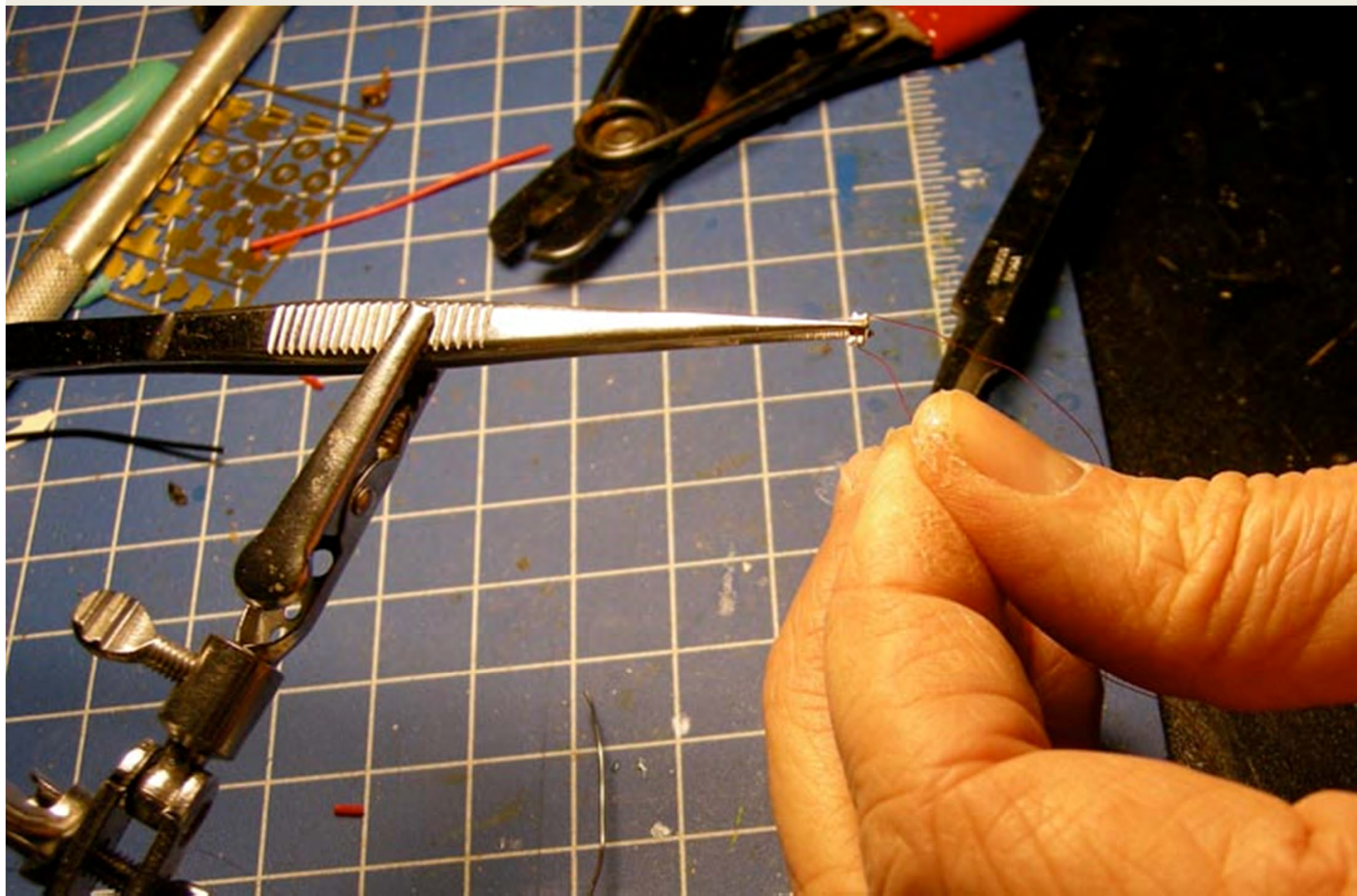


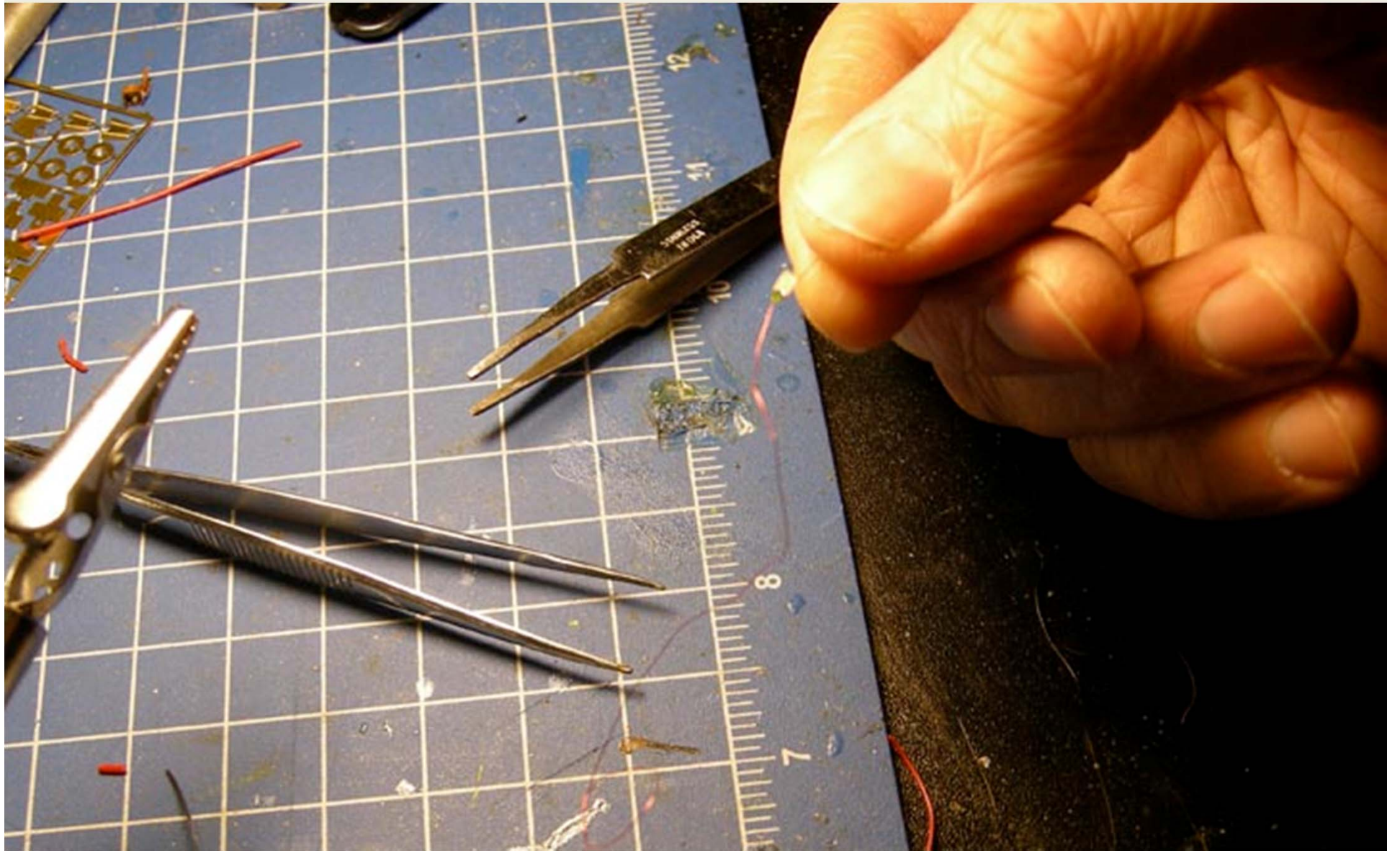


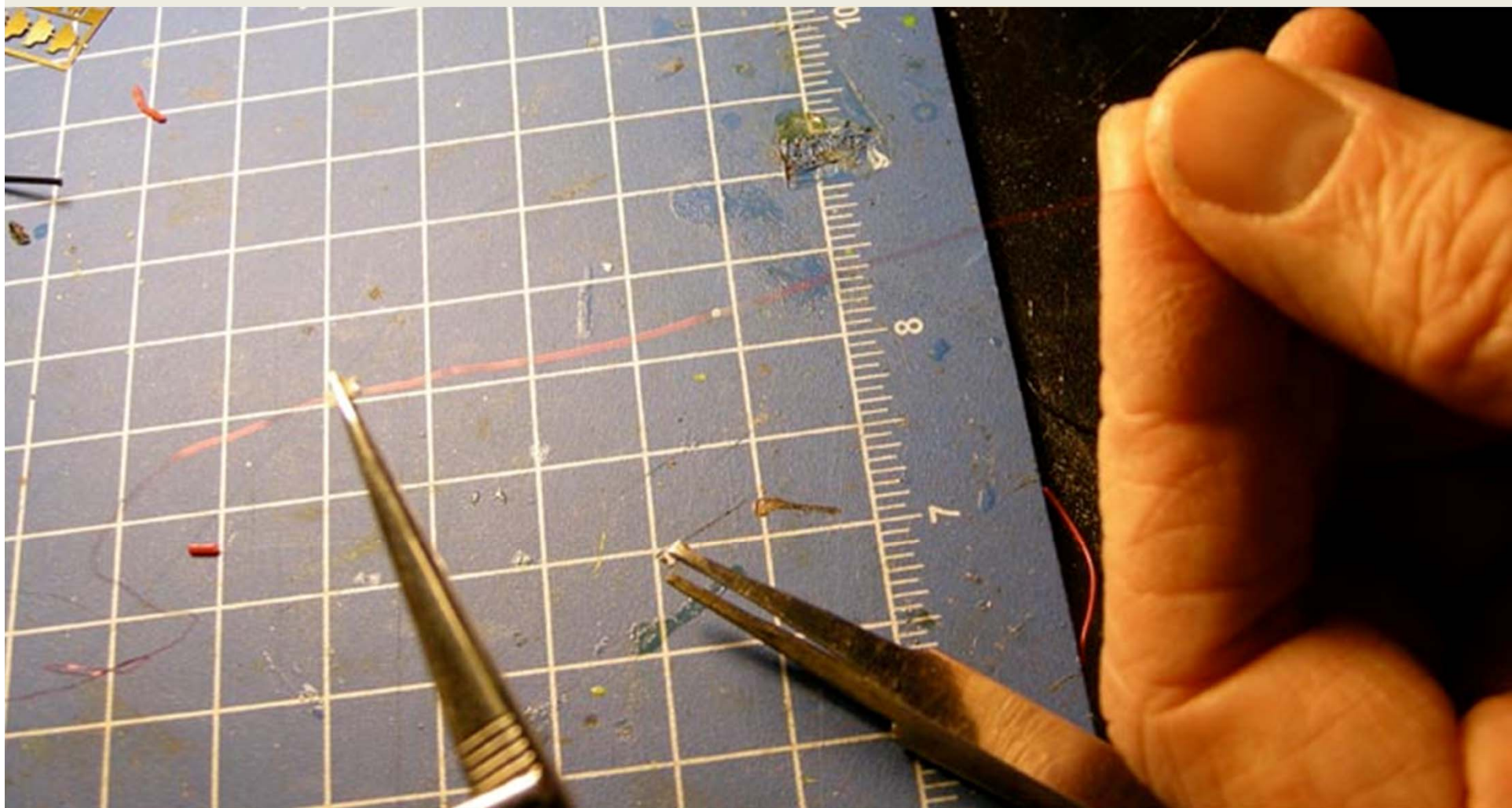


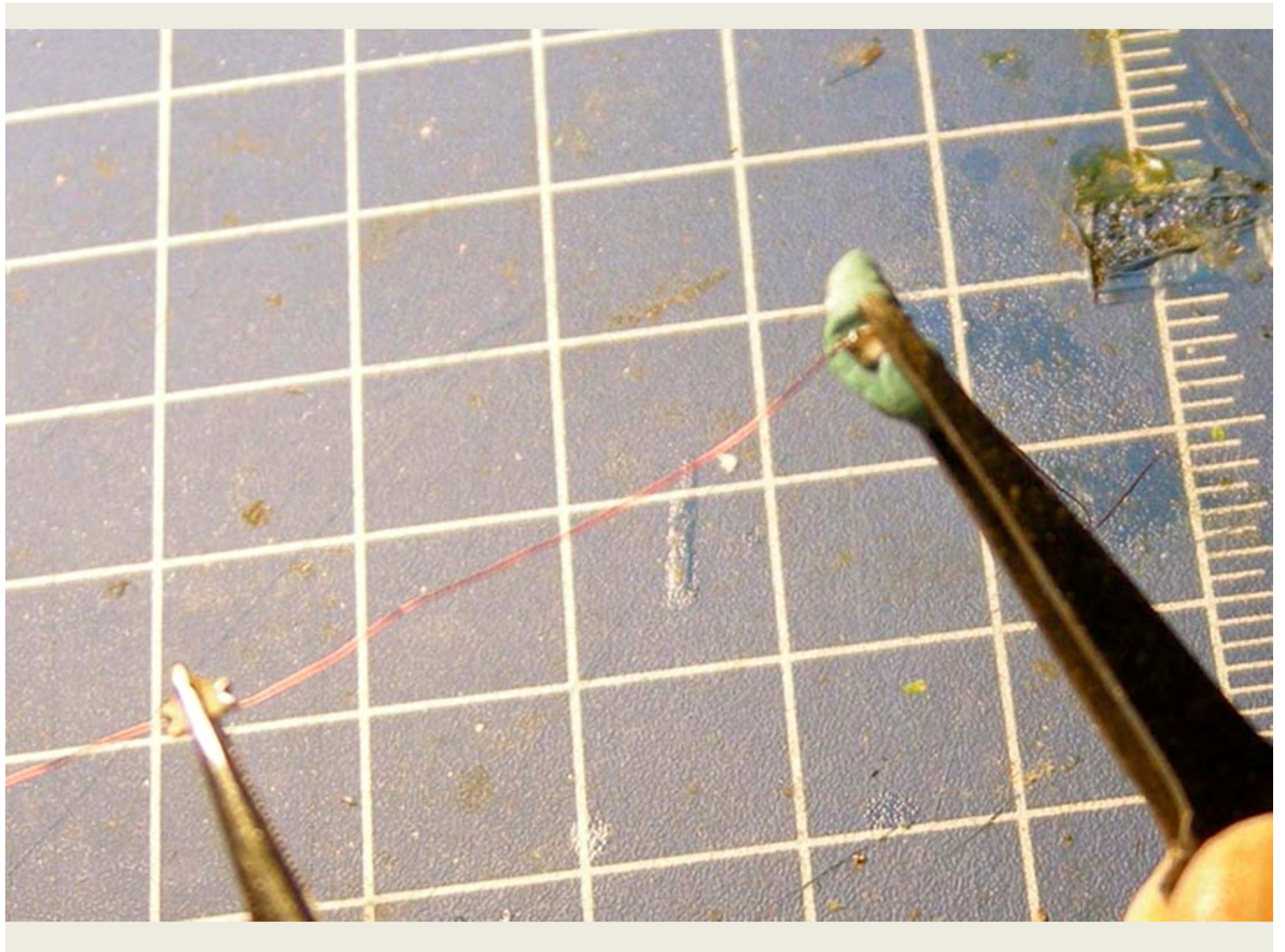


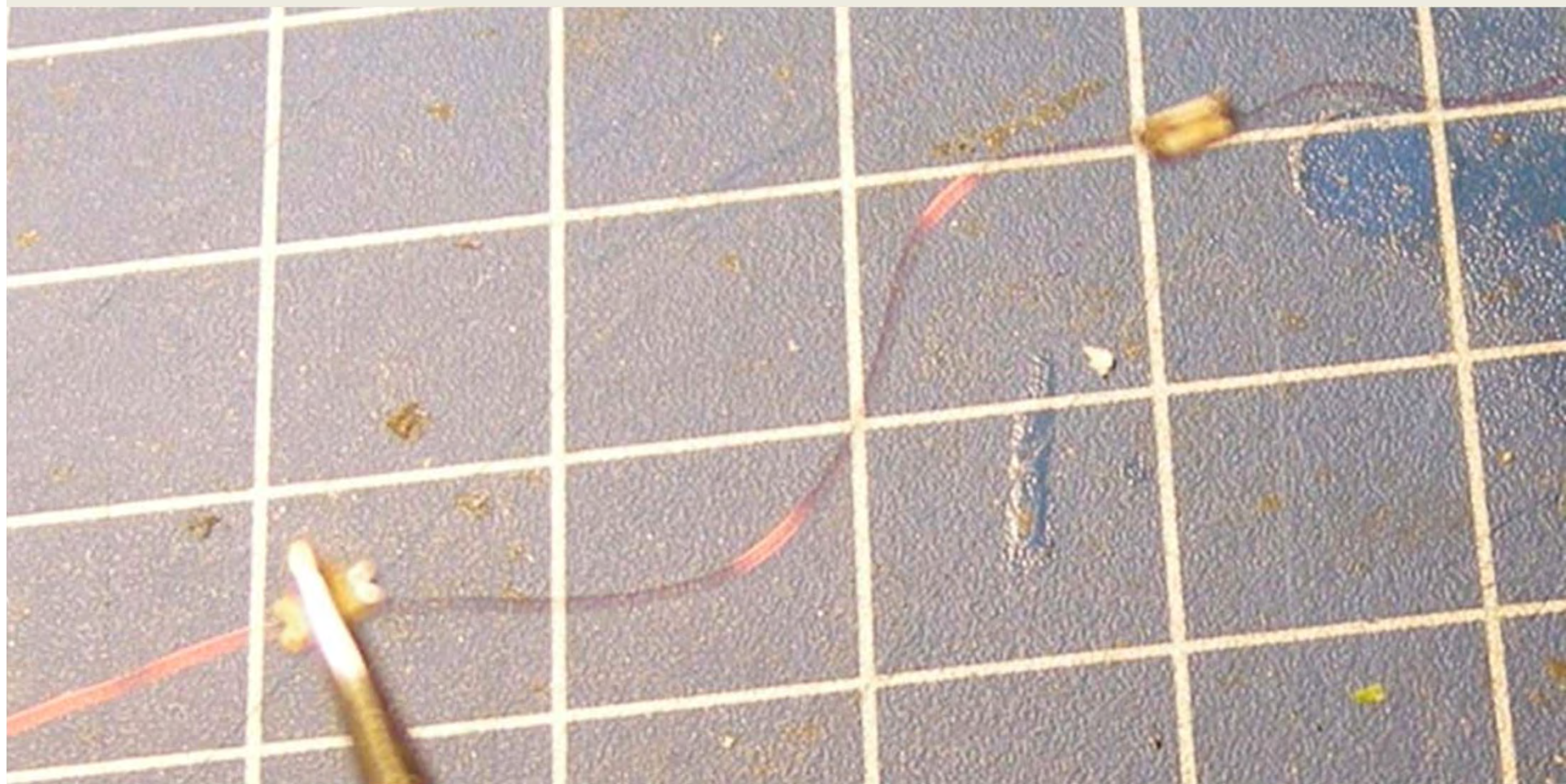














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