

LEGEND

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|-------------------|-------------|
| C1, C3 | 10 MFD |
| C2 | 4.7MFD |
| C4 | .047MFD |
| C5 | 100 MFD |
| C6 | 2 MFD |
| C7 | 50 MFD |
| C8, C10, C12, C13 | .02-.022MFD |
| C9 | 1MFD |
| C11 | .02 MFD |
| C14 | 18 MFD |

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| D1, D2 | 16 AMP |
| D3, THRU D14 | 1 AMP |

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| DZ1 | 10 VOLTS |
| DZ2 | 20 VOLTS |
| DZ3 | 62 VOLTS |

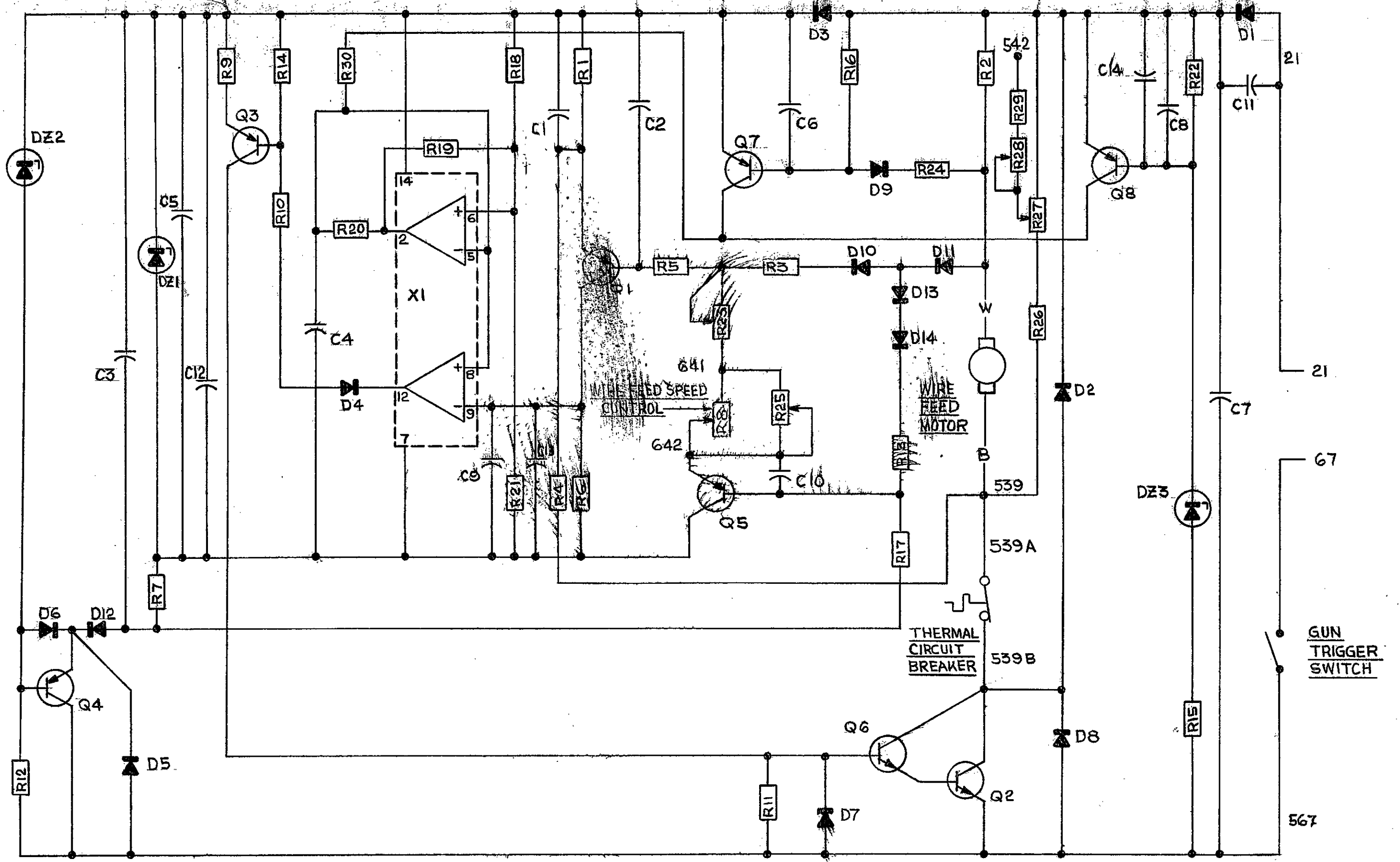
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|---------------|----------------------|
| R1 | 1K Ω |
| R2 | .4 Ω 12WATT |
| R3 | 2.2K Ω |
| R4 | 4.7K Ω |
| R5, R6, R13 | 10K Ω |
| R7, R26 | 220 Ω 2WATT |
| R8 | 10K Ω 2WATT |
| R9, R24 | 68 Ω |
| R10, R16, R30 | 680 Ω |
| R11 | 1K Ω |
| R12 | 3.3K Ω 4WATT |
| R14 | 330 Ω |
| R15 | 6.8K Ω |
| R17 | 27K Ω |
| R18, R21 | 150K Ω |
| R19 | 68K Ω |
| R20 | 4.7K Ω |
| R22 | 470 Ω |
| R23 | 10K Ω TRIMMER |
| R25 | 50K Ω TRIMMER |
| R27 | 100 Ω TRIMMER |
| R28 | 500 Ω TRIMMER |
| R29 | 100 Ω |

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| Q1, Q5 | 2N 4125 |
| Q2 | MJ 13331 |
| Q3, Q4 | 2N 6212 |
| Q6 | 2N 5655 |
| Q7, Q8 | 2N 5815 |
| X1 | DUAL OP AMP |

LEAD COLOR CODE
B = BLACK
W = WHITE

ELECTRICAL SYMBOLS PER E-1537

NOTE: SINCE COMPONENTS OR CIRCUITRY ON A PRINTED CIRCUIT BOARD MAY CHANGE WITHOUT AFFECTING THE INTERCHANGEABILITY OF A COMPLETE BOARD. THIS DIAGRAM MAY NOT SHOW THE EXACT COMPONENTS OR CIRCUITRY OF CONTROLS HAVING A COMMON CODE NUMBER.



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| UNLESS OTHERWISE SPECIFIED TOLERANCE ON HOLE SIZES PER E-2056 ON 2 PLACE DECIMALS IS $\pm .02$ ON 3 PLACE DECIMALS IS $\pm .002$ ON ALL ANGLES IS $\pm .5$ OF A DEGREE MATERIAL TOLERANCE ("Y") TO AGREE WITH PUBLISHED STANDARDS. | Ch'ge. Sht. No. 12-18-80 3-6-81L 1-8-82E 1-22-82T | | | | |
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| THE LINCOLN ELECTRIC CO. EQUIP. LN-22 | |
| CLEVELAND, OHIO U. S. A. SUBJECT: OPERATING SCHEMATIC | |
| SCALE: $\frac{1}{2}$ DATE: 8-18-82 CHK: QEC SUPS/D/G: 9-25-74 SHT. NO. M-12979 | |