

	1	2	3	4
D	2 WHITE IN SERIES CALCULATE R1 R1 = 1.25 / LED CURRENT 1.25 / 20 MILLIAMPS = 62.5 R1 = 62.5 OHMS)R REGULAR T 1-3/4	W LEDS IN SERIES @ 20 MI	J J J J
С	CALCULATE R1 WATTAGE R1w = 1.25 X LED CURRENT 1.25 X 20 MILLIAMPS = 0.025 R1w = $1/40$ WATT USE A RESISTOR WITH A WATTAGE RATING AT LEAST TWICE THIS VALUE CALCULATE LED TOTAL VOLTAGE Vt = Vf X NUMBER OF LEDS 3.4 VOLTS X 2 LEDS = 7.2 VOLTS Vt = 7.2 VOLTS Vt = 7.2 VOLTS Vt MUST BE LESS THAN Vin - 3 CALCULATE POWER DISSIPATED BY THE REGULATOR Pd = (Vin - (Vt + 1.25)) X LED CURRENT 14.4 - (7.2 + 1.25)) X .02 = 0.119 WATTS Pd = 0.119 WATTS IF Pd IS GREATER THAN 1.5 USE A HEATSINK ON THE BECULATOR			R1 C C
в		NOTES: 2 WHITE, BLUE (VOLTS 1 WHITE, BLUE (4 RED, YELLOW VOLTS 3 IN SERIES, 8.8V 2 IN SERIES, 6.8V POWER DISSIPA:	DR GREEN LEDS CAN BE CONNECTED IN SERIES WITH CONSTANT BE DR GREEN FROM 5.8 VOLTS TO 30 VOLTS OR AMBER LEDS CAN BE CONNECTED IN SERIES WITH CONSTANT BI TO 30V TO 30V TION IS LOW SO ITS OK TO SHRINK TUBE THE ENTIRE ASSEMBLY.	RIGHNESS FROM 9.2 VOLTS TO 30 RIGHNESS FROM 10.8 VOLTS TO 30
A		2	LED CONSTAN Size Letter Scale Scal	A No. 72-71 Sheet 1 of 1 4

