

CUSTOM LED 1.5" ROUND UNIVERSAL LED CLUSTERS

THANK YOU FOR PURCHASING CUSTOM LED'S 1.5" ROUND UNIVERSAL LED CLUSTERS WITH COLORCHANGE TECHNOLOGY.

PRODUCT DESCRIPTION: THIS PRODUCT IS DESIGNED TO OPERATE ON ANY AND ALL 12V SIGNALING SYSTEMS. THE CUSTOM LED 1.5" ROUND UNIVERSAL LED CLUSTERS HAVE A TYPICAL 3-WIRE SETUP. THERE ARE 6 PRIMARY LEDS, WHICH FOR TYPICAL INSTALLATIONS WILL BE USED AS RUNNING LIGHTS. THESE PRIMARY LEDS COME IN MANY COLORS. ADDITIONALLY THERE ARE 20 SECONDARY LEDS, WHICH FOR TYPICAL INSTALLATIONS WILL BE USED AS EITHER A TURN SIGNAL OR BRAKE LIGHT. THE SECONDARY LEDS COME IN EITHER YELLOW/AMBER OR RED. THE ONBOARD COLORCHANGE TECNOLOGY WILL ASSURE THAT THERE WILL BE NO COLOR MIXING BETWEEN THE PRIMARY AND SECONDARY LEDS BY AUTOMATICALLY CUTTING OUT THE PRIMARY LEDS FOR THE DURATION THAT THE SECONDARY LEDS ARE ACTIVATED.

PLEASE READ THE FOLLOWING THOROUGHLY.

INSTALLATION CARE AND HANDLING: BEING THAT THERE ARE SO MANY USES AND APPLICATIONS FOR THE 1.5" ROUND UNIVERSAL LED CLUSTERS, MOUNTING TYPE AND LOCATION IS UP TO THE END USER. TYPICALLY A MILD ADHESIVE LIKE SILICONE IS USED TO SUPPORT THE LED CLUSTERS. THE LED CLUSTER MUST BE PROTECTED FROM THE ELEMENTS (NAMELY WATER). IT IS VERY IMPORTANT TO HANDLE THE LED CLUSTERS AS LITTLE AS POSSIBLE. ADDITIONALLY, IT IS EXTREMELY IMPORTANT TO NOTE THAT THERE ARE SEVERAL EXPOSED COMPONENTS AROUND THE PERIMETER OF THE CLUSTER AND THERE ARE SOLDER POINTS EXPOSED ON THE REAR OF THE LED CLUSTER. CARE MUST BE TAKEN TO PREVENT SHORTING ACROSS ANY OF THESE POINTS DURING AND AFTER INSTALLATION OF THE LED CLUSTER. SHORTING ANY OF THESE POINTS TO A METAL OBJECT OR POWER WIRE MAY CAUSE PERMANENT DAMAGE AND MAY VOID YOUR WARRANTY ENTIRELY. CARE MUST ALSO BE TAKEN TO PREVENT SCRAPING OR GOUGING THE WHITE PROTECTIVE EPOXY FROM THE SURFACE OF THE LED CLUSTER CIRCUIT BOARD. THIS PROTECTIVE COATING COVERS THE CIRCUIT TRACE - WHICH IF DAMAGED WILL CAUSE FAILURE OF THE LED CLUSTER PARTIALLY OR IN ITS ENTIRETY AND WILL NOT BE COVERED UNDER WARANTY! IF INSTALLED PROPERLY, THESE LED CLUSTERS WILL GIVE YOU LONG LASTING PERFORMANCE.

WIRING YOUR LED CLUSTERS: THE CUSTOM LED 1.5" ROUND UNIVERSAL LED CLUSTERS ARE DESIGNED WITH A TYPICAL THREE-WIRE DESIGN. THE THREE WIRES SHOULD BE CONNECTED AS FOLLOWS:

RED: CONNECT TO A IGNITION SWITCHED +12V SOURCE SUCH AS A RUNNING LIGHT LEAD.

WHITE: CONNECT TO A +12V SOURCE THAT WILL CONTROL THE FUNCTION OF THE SECONDARY LEDS SUCH AS A TURN SIGNAL LEAD OR BRAKE LEAD (+12V WHEN ACTIVE)

BLACK: CONNECT TO ANY COMMON GROUND POINT.

AS DISCUSSED IN THE DESCRIPTION, WITH THE ONBOARD COLORCHANGE TECHNOLOGY, THE LED CLUSTER WILL AUTOMATICALLY CANCEL THE PRIMARY LED COLOR FOR THE DURATION THAT THE SECONDARY LEDS ARE ACTIVE (WHITE WIRE EXPOSED TO +12V).

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TROUBLESHOOTING:

PROBLEM: YOU INSTALLED THE CUSTOM LED 1.5" UNIVERSAL LED CLUSTER AS THE INSTRUCTIONS SAY BUT THE PRIMARY LEDS DO NOT SHUT OFF ENTIRELY WHEN THE SECONDARY LEDS ARE ACTIVATED.

CAUSE: IN ORDER FOR THE PRIMARY LEDS TO CANCEL COMPLETELY, THE WHITE WIRE MUST BE GIVEN AT LEAST THE SAME VOLTAGE AS THE RED WIRE. WITH A VOLTMETER, MEASURE THE VOLTAGE AT THE WHITE WIRE (WHEN ACTIVE) AND AT THE RED WIRE AND COMPARE.

SOLUTION: THIS PROBLEM IS USUALLY CAUSED BY THE FLASHER RELAY. SOME FLASHER RELAYS CAUSE A VOLTAGE DROP ON THE LOAD SIDE. IF YOU DO NOT WISH TO REPLACE YOUR FLASHER RELAY WITH ONE THAT IS MORE SUITABLE FOR THE DEVICES ON YOUR VEHICLE, YOU MAY SIMPLY USE A SMALL RELAY TO ACTIVATE THE WHITE WIRE ON THE LED CLUSTER USING THE RUNNING LIGHT FEED AS THE SOURCE AND THE BLINKER WIRE AS THE RELAY TRIGGER.

PROBLEM: YOU INSTALLED THE CUSTOM LED 1.5" UNIVERSAL LED CLUSTER AS THE INSTRUCTIONS SAY BUT THE BLINKERS BLINK ONCE THEN STOP OR THEY DON'T BLINK AT ALL OR THEY BLINK TOO FAST.

CAUSE: THE STOCK FLASHER RELAYS ON OUR CARS AND MOTORCYCLES - WHICH ARE THE DEVICES THAT MAKE BLINKERS "BLINK" - ARE DESIGNED TO BLINK TWICE AS FAST AS NORMAL WHEN A BULB IS BURNED OUT. THIS IS TO LET THE OPERATOR KNOW THAT THERE IS A BLINKER BULB BURNED OUT. UNFORTUNATELY, MOST AFTER MARKET BLINKER PRODUCTS (INCLUDING CUSTOM LED PRODUCTS) CONSUME SO LITTLE POWER COMPARED TO THE STOCK BULBS, THAT THE FLASHER RELAY THINKS THAT A BULB IS OUT WHEN THIS IS NOT THE CASE. SOMETIMES, THE POWER CONSUMED IS SO LITTLE, THAT THE BLINKERS DON'T EVEN BLINK AT ALL!

SOLUTION: SIMPLY REPLACE THE FLASHER RELAY WITH ONE THAT IS NOT DESIGNED WITH A "BULB OUT NOTIFICATION" OR YOU COULD INSTALL A CUSTOM LED LOAD EQUALIZER. THE CUSTOM LED LOAD EQUALIZERS COME IN VARIOUS SIZES FOR DIFFERENT APPLICATIONS. VISIT WWW.CUSTOMLED.COM FOR MORE INFORMATION.

FOR ALL OTHER INQUIRIES AND TECHNICAL SUPPORT, PLEASE CONTACT: YOUR VENDOR, OR SUPPORT@CUSTOMLED.COM.

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