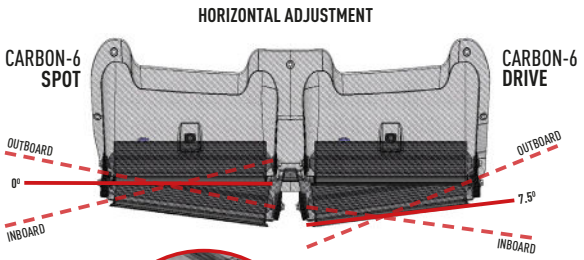
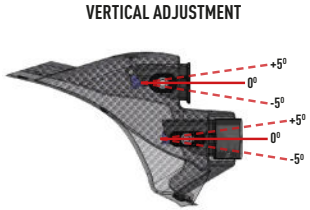
4-WAY BONNET POD ADJUSTMENT SETTINGS



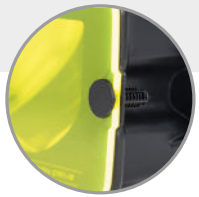


FINE ADJUSTMENT
1 TURN = 0.83 DEGREES OF UP (ANTI-CLOCKWISE) OR DOWN (CLOCKWISE) ADJUSTMENT



ALSO AVAILABLE





AMBER AND BLACK LENS COVERS (INCLUDED WITH LAMP)



WIRING KITS



MOUNTING KITS

Thank you for your purchase of the 3rd Generation of Carbon-6 High Performance LED Driving Lights. Along with all the team at Lazer, I hope you're delighted with the performance and build quality of your new lights, and they deliver a safer and faster night driving experience. As always we value your feedback and would welcome you to leave a review on our website.

Ben Russell-Smith (Director – Lazer Lamps)

LAZER
HIGH PERFORMANCE LIGHTING

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Lazer Lamps Ltd, Units 1-2, Harlow Mill Business Centre
Riverway, Harlow, Essex CM20 2FD, United Kingdom

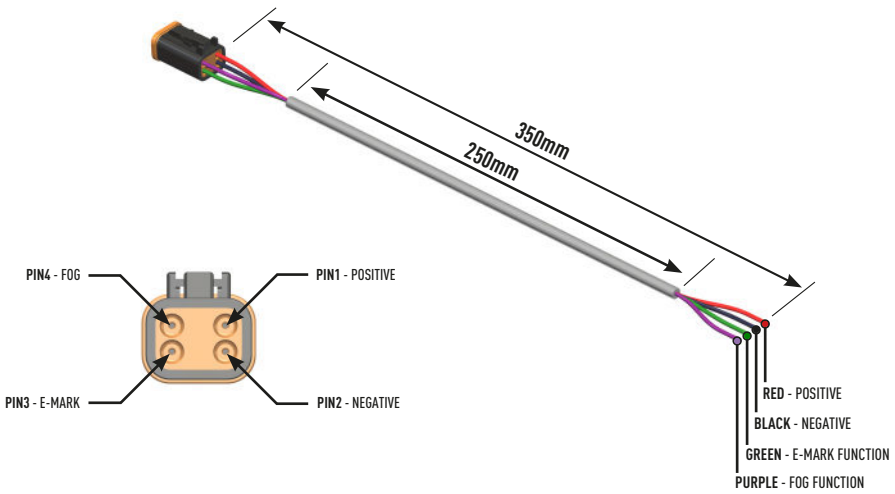
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CARBON-6
INSTRUCTIONS

ELECTRICAL CONNECTION

CARBON-6 (GEN3) CONNECTOR

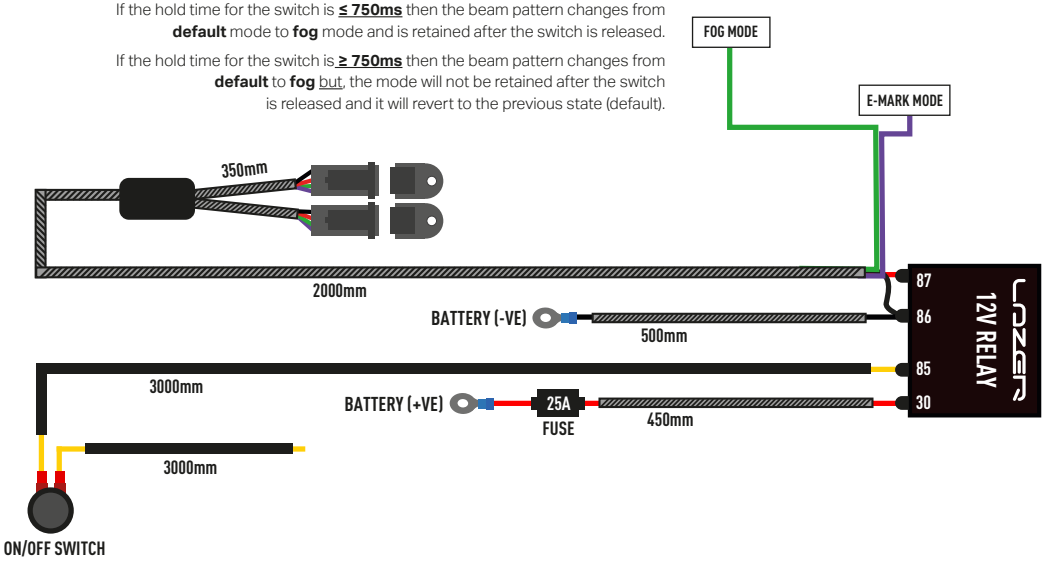


TWO-LAMP HARNESS KIT FOR CARBON-6 (GEN3)

ADD OPTIONAL MOMENTARY SWITCH - PIN4 - FOG MODE

If the hold time for the switch is **≤ 750ms** then the beam pattern changes from **default** mode to **fog** mode and is retained after the switch is released.

If the hold time for the switch is **≥ 750ms** then the beam pattern changes from **default** to **fog** but, the mode will not be retained after the switch is released and it will revert to the previous state (default).



LAMP MODES
(CARBON-6 GEN3)

LAMP MODE	INPUT SIGNAL		BEAM PATTERNS		CURRENT @ 13.5V (A)
	GREEN WIRE (E-MARK) CONNECTOR PIN 3	PURPLE WIRE (FOG) CONNECTOR PIN 4	HIGH BEAM % LUMEN OUTPUT	FOG BEAM % LUMEN OUTPUT	
E-BOOST	0V	0V	100	0	6.5
E-MARK	12V	0V	25	0	1.625
FOG	0V	12V	0	100	6.5
RAIN	12V	12V	0	25	1.625

PWM INFORMATION
(CARBON-6 GEN3)

PWM SIGNAL REQUIREMENTS	
PWM SIGNAL FREQUENCY	100 Hz
TOLERANCE DUTY CYCLE	±2%

Some race teams may wish to activate the different modes of these lamps by using a PWM signal. PIN 3 is PWM capable, so race teams should use a 100Hz PWM frequency, in order to obtain different beam patterns. See table.

	INPUT SIGNAL		LIGHT OUTPUT		CURRENT @ 13.5V (A)
	12V PWM SIGNAL ON PIN 3 (E-MARK PIN) DUTY CYCLE %	VOLTAGE ON PIN 4 (FOG PIN)	PRIMARY BEAM % LUMEN OUTPUT	SECONDARY BEAM % LUMEN OUTPUT	
AVAILABLE PWM MODES	0	0V	100	0	6.5
	10	0V	90	0	1.6
	18	0V	80	0	2.6
	26	0V	70	0	3.6
	34	0V	70	30	4.6
	42	0V	70	40	7.2
	50	0V	60	60	9.1
	58	0V	40	70	9.1
	66	0V	30	70	9.1
	74	0V	0	80	9.1
	82	0V	0	90	9.1
	90	0V	0	100	8.1
	100	0V	25	0	1.6
	0	12V	0	100	6.5
	10	12V	0	95	6.2
	18	12V	0	90	5.9
	26	12V	0	85	5.5
	34	12V	0	80	5.2
	42	12V	0	75	4.9
	50	12V	0	70	4.6
	58	12V	0	65	4.2
	66	12V	0	60	3.9
	74	12V	0	55	3.6
	82	12V	0	50	3.3
	90	12V	0	45	2.9
	100	12V	0	25	1.6