

E3080 - HEADLAMP ALIGNMENT CORRECTOR [BI XENON PROJECTORS WITH AFS]

APPLIES TO VERSIONS WITH: BI XENON PROJECTORS WITH AFS

DESCRIPTION

Some versions of the vehicle may be equipped with Xenon 35W headlights (dipped/main beam) with automatic vertical adjustment according to the vehicle trim. The gas headlights also implement the adaptive function managed by the AFLM (Adaptive Front Light Module) for vertically adjusting the light beam according to the steering angle.

A specific control unit connected via CAN to the other system nodes controls all the other functions of these headlights. Two sensors (one front and one rear) are present for detecting the suspension position. The device is only enabled with the dipped beams on.

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FUNCTIONAL DESCRIPTION

The INT line protected by fuse F51 of Body Computer M001 supplies the control unit M073, pin 11; pin 9 is connected to earth. The two headlights and the control unit are connected through dedicated serial lines: from pin 12 of F010 to pin 13 of M073 and from pin 5 of M073 to pin 12 of F011.

The Body Computer M001 - connector A - receives direct battery power via the line protected by maxi fuse F72 of the maxi fuse box on the battery B099. The Body Computer M001 receives an ignition-controlled power supply (INT) on pin 12 of connector H from the signal from the radio frequency module M204. Pins 1 and 11 of connector G of M001 provide the Body Computer with a reference earth.

Pins 12 and 3 of M073 are connected to the CAN and, in particular, to the electric steering control unit M086 from which the steering angle and steering angular speed signals are received, and the instrument panel for activating/deactivating the AFLM function.

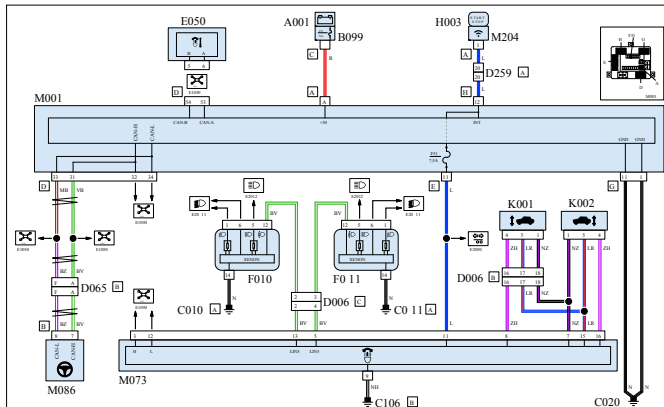
See:

E1050 CAN CONNECTION LINES

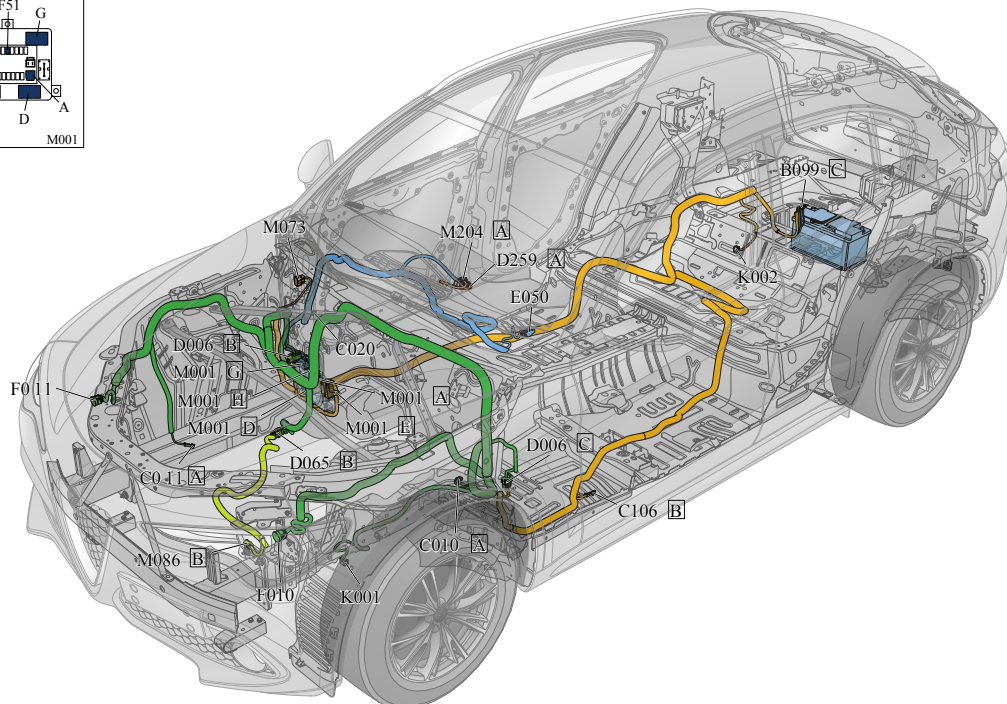
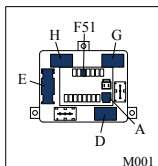
The control unit M073 also manages the vertical automatic headlight alignment function: the two sensors (potentiometers) which measure the front alignment K001 and the rear alignment K002 are connected. The power supply is sent to the sensors from pin 15 of M073 and the reference earth from pin 7, whilst the return signals from sensors K001 and K002 respectively reach pins 8 and 16.

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WIRING DIAGRAM



APPLIES TO VERSIONS WITH: BI XENON PROJECTORS WITH AFS COMPONENT LOCATION



COMPONENTS

COMPONENT CODE	REFERENCE TO THE OPERATION
<u>A001 BATTERY</u>	<u>5530B10 BATTERY - R.R. PRELIMINARY DIAGNOSIS INCLUDED</u>
<u>B099 MAXI FUSE BOX ON BATTERY</u>	<u>5530B40 SUPPLY BOX ON BATTERY (LINK BATTERY AND FUSE BOX) - R.R.</u>
<u>C010 FRONT LEFT EARTH</u>	
<u>C011 FRONT RIGHT EARTH</u>	
<u>C020 PASSENGER SIDE DASHBOARD EARTH (DASHBOARD).</u>	
<u>C106 Compartment wiring earth, left side</u>	
<u>D006 FRONT/REAR COUPLING</u>	
<u>D259 DASHBOARD HARNESS COUPLING</u>	
<u>D278 Interior rear view mirror harness coupling.(REAR-VIEW MIRROR HARNESS).</u>	
<u>E050 INSTRUMENT PANEL (DASHBOARD).</u>	<u>5560B10 INSTRUMENT PANEL - R.R.</u>
<u>F010 LEFT HEADLIGHT (BATTERY NEGATIVE).</u>	<u>5540B81 FRONT LEFT GAS DISCHARGE LIGHT CLUSTER - R.R.</u>
<u>F011 RIGHT HEADLIGHT (FRONT).</u>	<u>5540B82 FRONT LEFT GAS DISCHARGE LIGHT CLUSTER - R.R.</u>
<u>K001 HEADLIGHT ALIGNMENT CORRECTOR FRONT POTENTIOMETER (FRONT).</u>	<u>5540C42 SENSOR FOR LIGHT CLUSTERS ALIGNMENT/CORRECTION ON FRONT SUSPENSION - R.R.</u>
<u>K002 HEADLIGHT ALIGNMENT CORRECTOR REAR POTENTIOMETER (REAR).</u>	<u>5540C46 SENSOR FOR LIGHT CLUSTERS ALIGNMENT/CORRECTION ON REAR SUSPENSION - R.R.</u>
<u>H003 IGNITION DEVICE (CONTROL SET ON STEERING WHEEL).</u>	<u>5520G30 EASY-GO SYSTEM MOTOR STARTING START/STOP SWITCH - R.R.</u>
<u>M001 BODY COMPUTER</u>	<u>5505A32 BODY COMPUTER - R.R.</u>
<u>M073 HEADLIGHT ALIGNMENT CONTROL UNIT (REAR).</u>	<u>5540C60 ADAPTIVE HEADLIGHT CONTROL UNIT - R.R.</u>
<u>M086 ELECTRIC STEERING CONTROL UNIT</u>	<u>4410D13 FRONT SUSPENSION CROSSMEMBER - R.R.</u>
<u>M204 Radio frequency module</u>	<u>5580E70 PASSIVE ENTRY SYSTEM CONTROL UNIT - R.R.</u>