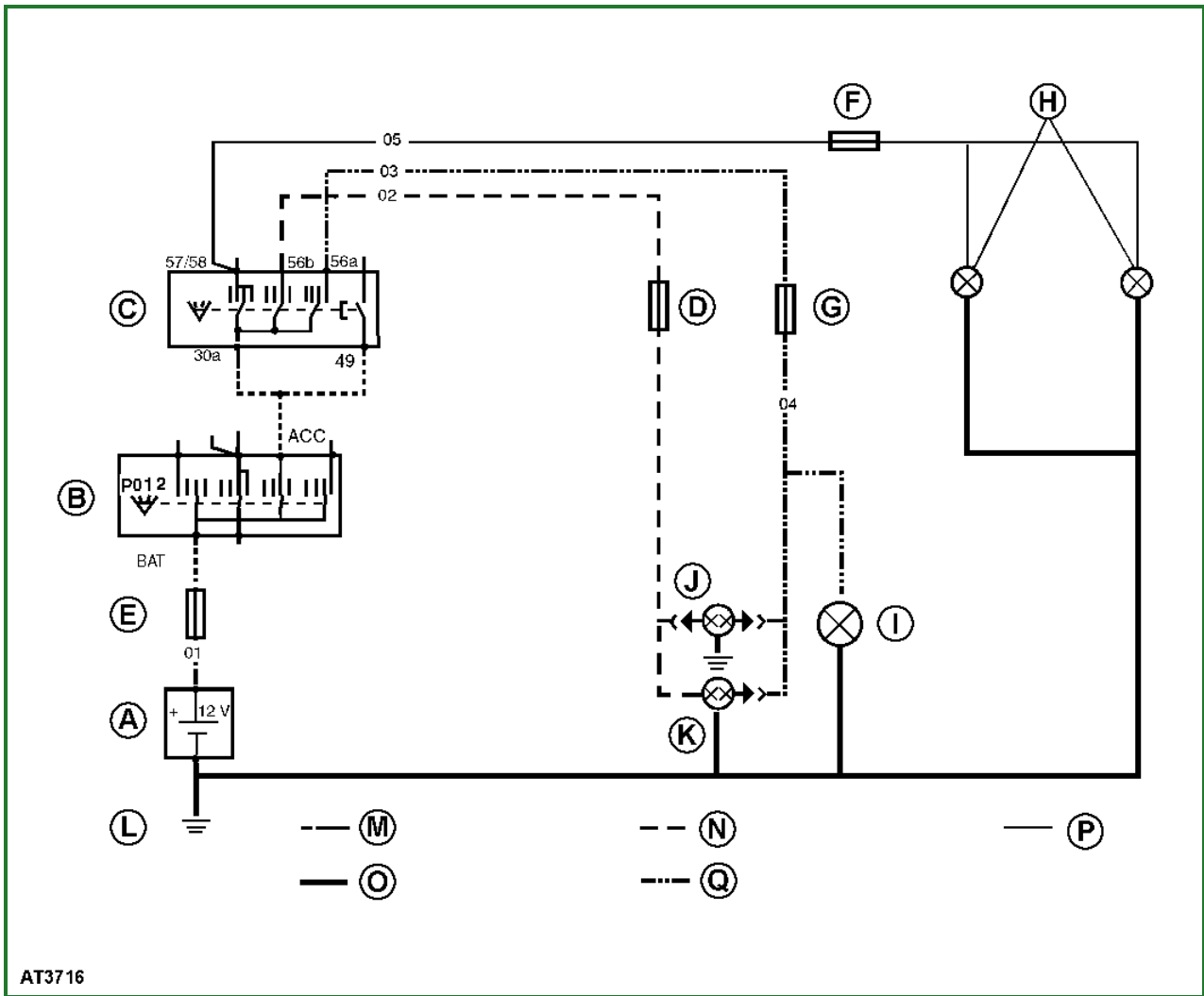


Lighting System Operation - Headlights and Instrument Lights



AT3716-UN: Headlights and instrument lights

LEGEND:

- A - Battery
- B - Key switch
- C - Light switch
- D - Fuses 8, 10 amp
- E - Main fuse, 50 amp
- F - Fuse 4, 10 amp
- G - Fuse 12, 15 amp
- H - Instrument lights
- I - High beam indicator
- J - Right headlight
- K - Left headlight
- L - Ground
- M - Power circuit
- N - Right and left low beam current
- O - Instrument light current
- P - Ground circuit
- Q - High beam current

Function

Provide low and high beam illumination for visibility at night. Also provide illumination for gauges in instrument panel.

Major Components

- Fuse 12, 15 amp
- Fuse 4 and 8, 10 amp
- Main fuse, 50 amp
- Light switch
- Key switch
- Right headlight
- Left headlight
- Instrument light

Theory of Operation

When switch is in headlight position 2 (low beam), current flows on circuit 01 from battery, through main fuse and key switch, then through switch contacts (C) and out circuits 02. Flow continues through 10-amp fuses (D) and the low beam filament of the headlight bulbs.

When switch is moved to headlight position 3 (high beam), current passes from switch on circuit 03 and passes through 15-amp fuse (G). Current moves on circuit 04 to high beam filament of both headlight bulbs and high beam indicator light.

Instrument lights operate light switch in either headlight position, or in parking light position 1. Current flows out of switch on circuit 05 and through fuse (F). Flow continues to instrument lights.

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