

USEFUL FUNCTIONS

Verifying the Flow of Electricity

If the switch on the bottom left is displayed, it can be clicked to display the flow of electricity for the corresponding system. Only the major flows of electricity are displayed.

Click to display the flow of electricity.

The screenshot shows the Mazda service materials website in a Microsoft Internet Explorer browser. The page displays the 'Wiring Diagram' section for a Mazda3 (BK12F6*500001-). The left sidebar lists various vehicle systems, with 'LIGHTING SYSTEMS' expanded. The main area shows a detailed wiring diagram for the 'HEADLIGHT (WITHOUT RUNNING LIGHT SYSTEM/WITHOUT AUTO LIGHT SYSTEM)'. The diagram includes components like the battery, main fuse block, headlight high/low relays, TNS relay, microcomputer, and various switches. A red arrow points to a button labeled 'HEADLIGHT' with a light bulb icon. Below the button, text reads: 'Operate the switch on the left to verify the electrical current flow in the related circuits.' A red arrow points to this button with the text 'Click to display the flow of electricity'.

MAZDA - Microsoft Internet Explorer

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マツダサービス資料 Mazda3 BK12F6*500001- MAZDA service materials

Part Catalogue Service Information Select Model Print Edit Personal Information

Service Contents

- Wiring Diagram
- BRAKES
- TRANSMISSION/TRANSAXLE
- STEERING
- HEATER, VENTILATION & AIR COND
- RESTRAINTS
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- SEATS
- SECURITY AND LOCKS
- SUNROOF
- LIGHTING SYSTEMS
 - DISCHARGE HEADLIGHT SER
 - HEADLIGHT (WITHOUT RUNNING LIGHT)
 - HEADLIGHT (WITH RUNNING LIGHT)
 - HEADLIGHT (WITH AUTO LIGHT)
 - LICENSE PLATE LIGHT/PARKING LIGHT
 - FRONT FOG LIGHT
 - REAR FOG LIGHT
 - TURN AND HAZARD WARNING
 - BACK-UP LIGHT
 - BRAKE LIGHT/HIGH-MOUNT BR
 - INTERIOR LIGHT/MAP LIGHT
 - CARGO COMPARTMENT LIGHT
 - ILLUMINATION LIGHT
 - HEADLIGHT AUTO LEVELING S
 - HEADLIGHT MANUAL LEVELING
- WIPER/WASHER SYSTEM
- ENTERTAINMENT
- INSTRUMENTATION/DRIVER INFO
- DATA LINK CONNECTOR

MENU OTHER THAN SYSTEM CIRCUIT C

- ELECTRICAL WIRING SCHEMATIC
- GROUND POINT LIST
- CONNECTOR/GROUND POINT LOCAT

Key Word Search

Search

HEADLIGHT (WITHOUT RUNNING LIGHT SYSTEM/WITHOUT AUTO LIGHT SYSTEM) 0918-1c

When a signal is received from the light switch, the microcomputer turns on the headlights (low) relays and TNS relays.

HEADLIGHT

Operate the switch on the left to verify the electrical current flow in the related circuits.

Click to display the flow of electricity

Verifying Inspection Locations for Each DTC

Select the DTC from the tree menu and the possible malfunction locations will flash.

NOTE

- While the flashing locations represent the possible malfunction locations on the wiring diagram for the corresponding DTC, it does not represent all of the possible malfunction locations.
- If a DTC is selected that corresponds to a malfunction not related to electrical circuits (ex: B1047 Driver-side side air bag module and other air bag module circuits short), the corresponding page of the Workshop Manual is displayed.

The screenshot shows the Mazda3 service information website in Microsoft Internet Explorer. The browser window title is "MAZDA - Microsoft Internet Explorer". The page header includes the Mazda logo and the text "マツダサービス資料" (Mazda Service Materials) and "MAZDA service materials". The page is for a Mazda3 with VIN BK12F6*500001-. The "Service Contents" menu is open, showing "Wiring Diagram" selected. The "GENERAL INFORMATION" section is expanded, and the DTC B1047 (SAS) Driver-side side air bag module and other air bag module circuits short is highlighted with a red box. A red arrow points from this DTC to the wiring diagram on the right. The wiring diagram is titled "AIR BAG SYSTEM (INCLUDES PRE-TENSIONER SEAT BELT INFORMATION)" and "0810-". It shows the electrical connections for the driver-side and passenger-side air bag modules, including the inflator, crash zone sensor, and pre-tensioner seat belt. The diagram is labeled "WITH SIDE AND CURTAIN AIR BAG SYSTEM" and "SAS CONTROL MODULE".

Consulting the Terminal Voltage Table for Each System

Display terminal voltage tables for wiring diagram systems (the PCM is shown in the wiring diagram example below).

The screenshot shows the Mazda service website interface. The top navigation bar includes "Mazda3" and "BK12F6*500001-". The left sidebar contains a "Service Contents" menu with "Wiring Diagram" selected. The main content area displays a wiring diagram for the "FULL-AUTO AIR CONDITIONER SYSTEM" (0740-1a). The diagram shows various components like the battery, fuse block, compressor, and climate control unit. At the bottom of the diagram, there is a toolbar with several icons. A red circle and arrow point to a yellow icon with a 'V' symbol, which represents the terminal voltage table. Below the toolbar, a red text label says "Click to display terminal voltage table".