

Workshop Manual - HVAC

2012 - Mazda6

On-Board Diagnostics

- HVAC SYSTEM WIRING DIAGRAM
- FOREWORD
- FLOW CHART
- DTC DISPLAY
- CLEARING DTC
- DTC TABLE
- DTC B1081:71, B1082:71
- DTC B1086:71
- DTC B1A61:11, B1A61:13
- DTC B1A63:11, B1A63:13, B1A64:11, B1A64:13
- DTC B1B71:11, B1B71:13
- DTC B1C1A:11, B1C1A:13, B1C1B:11, B1C1B:13
- DTC B1C1C:11, B1C1C:13
- DTC U0423:68
- PID/ DATA MONITOR DISPLAY
- PID/ DATA MONITOR TABLE
- ACTIVE COMMAND MODES DISPLAY
- ACTIVE COMMAND MODES TABLE
- A/ C OPERATION CHECK MODE DISPLAY
- A/ C OPERATION CHECK MODE TABLE

Symptom Troubleshooting

- HVAC SYSTEM WIRING DIAGRAM [FULL-AUTO AIR CONDITIONER]
- FOREWORD [FULL-AUTO AIR CONDITIONER]
- TROUBLESHOOTING INDEX [FULL-AUTO AIR CONDITIONER]
- NO.1 INSUFFICIENT AIR (OR NO AIR) BLOWN FROM VENTS [FULL-AUTO AIR CONDITIONER]
- NO.2 AMOUNT OF AIR BLOWN FROM VENTS DOES NOT CHANGE [FULL-AUTO AIR CONDITIONER]
- NO.3 AMOUNT OF AIR BLOWN FROM REAR VENTS DOES NOT CHANGE [FULL-AUTO AIR CONDITIONER]
- NO.4 AIR INTAKE MODE FROM VENT DOES NOT CHANGE [FULL-AUTO AIR CONDITIONER]
- NO.5 NO TEMPERATURE CONTROL WITH CLIMATE CONTROL UNIT [FULL-AUTO AIR CONDITIONER]
- NO.6 WINDSHIELD FOGGED [FULL-AUTO AIR CONDITIONER]
- NO.7 AIR FROM VENTS NOT COLD ENOUGH [FULL-AUTO AIR CONDITIONER]
- NO.8 NO COOL AIR [FULL-AUTO AIR CONDITIONER]
- NO.9 NOISE WHILE OPERATING A/ C SYSTEM [FULL-AUTO AIR CONDITIONER]
- NO.10 DUAL A/ C CONTROL DOES NOT OPERATE [FULL-AUTO AIR CONDITIONER]

Symptom Troubleshooting

- HVAC SYSTEM WIRING DIAGRAM [MANUAL AIR CONDITIONER]
- FOREWORD [MANUAL AIR CONDITIONER]

- TROUBLESHOOTING INDEX [MANUAL AIR CONDITIONER]
- NO.1 INSUFFICIENT AIR (OR NO AIR) BLOWN FROM VENTS [MANUAL AIR CONDITIONER]
- NO.2 AMOUNT OF AIR BLOWN FROM VENTS DOES NOT CHANGE [MANUAL AIR CONDITIONER]
- NO.3 AIR INTAKE MODE DOES NOT CHANGE [MANUAL AIR CONDITIONER]
- NO.4 NO TEMPERATURE CONTROL WITH CLIMATE CONTROL UNIT [MANUAL AIR CONDITIONER]
- NO.5 WINDSHIELD FOGGED [MANUAL AIR CONDITIONER]
- NO.6 AIR FROM VENTS NOT COLD ENOUGH [MANUAL AIR CONDITIONER]
- NO.7 NO COOL AIR [MANUAL AIR CONDITIONER]
- NO.8 NOISE WHILE OPERATING A/ C SYSTEM [MANUAL AIR CONDITIONER]

Refrigerant System

- REFRIGERANT SYSTEM SERVICE WARNINGS
- REFRIGERANT SYSTEM SERVICE CAUTIONS
- REFRIGERANT SYSTEM GENERAL PROCEDURES
- REFRIGERANT CHARGING
- REFRIGERANT RECOVERY
- REFRIGERANT PRESSURE CHECK
- REFRIGERANT SYSTEM PERFORMANCE TEST

Basic System

- HVAC BASIC SYSTEM LOCATION INDEX
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- AIR FILTER INSPECTION
- A/ C UNIT REMOVAL/ INSTALLATION
- A/ C UNIT DISASSEMBLY/ ASSEMBLY
- EXPANSION VALVE REMOVAL/ INSTALLATION
- EVAPORATOR INSPECTION
- HEATER CORE INSPECTION
- REAR HEAT DUCT COMPONENT REMOVAL/ INSTALLATION
- A/ C COMPRESSOR REMOVAL/ INSTALLATION
- CONDENSER REMOVAL/ INSTALLATION
- CONDENSER INSPECTION
- RECEIVER/ DRIER REMOVAL/ INSTALLATION
- REFRIGERANT LINE REMOVAL/ INSTALLATION

Control System

- HVAC CONTROL SYSTEM LOCATION INDEX [FULL-AUTO AIR CONDITIONER]
- AIR INTAKE ACTUATOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- AIR INTAKE ACTUATOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- AIR MIX ACTUATOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- AIR MIX ACTUATOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- AIRFLOW MODE ACTUATOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- AIRFLOW MODE ACTUATOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- FRONT BLOWER MOTOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- FRONT BLOWER MOTOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- FRONT POWER METAL OXIDE SEMICONDUCTOR FIELD EFFECT TRANSISTOR (POWER MOS FET) REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- FRONT POWER METAL OXIDE SEMICONDUCTOR FIELD EFFECT TRANSISTOR (POWER MOS FET) INSPECTION [FULL-AUTO AIR CONDITIONER]
- MAGNETIC CLUTCH DISASSEMBLY/ ASSEMBLY [FULL-AUTO AIR CONDITIONER]
- MAGNETIC CLUTCH ADJUSTMENT [FULL-AUTO AIR CONDITIONER]
- MAGNETIC CLUTCH INSPECTION [FULL-AUTO AIR CONDITIONER]
- SOLAR RADIATION SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- SOLAR RADIATION SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- AMBIENT TEMPERATURE SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]

- AMBIENT TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- PASSENGER COMPARTMENT TEMPERATURE SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- PASSENGER COMPARTMENT TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- EVAPORATOR TEMPERATURE SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- EVAPORATOR TEMPERATURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- REFRIGERANT PRESSURE SENSOR REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- REFRIGERANT PRESSURE SENSOR INSPECTION [FULL-AUTO AIR CONDITIONER]
- CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [FULL-AUTO AIR CONDITIONER]
- CLIMATE CONTROL UNIT INSPECTION [FULL-AUTO AIR CONDITIONER]

Control System

- HVAC CONTROL SYSTEM LOCATION INDEX [MANUAL AIR CONDITIONER]
- AIR INTAKE ACTUATOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- AIR INTAKE ACTUATOR INSPECTION [MANUAL AIR CONDITIONER]
- AIR MIX ACTUATOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- AIR MIX ACTUATOR INSPECTION [MANUAL AIR CONDITIONER]
- AIRFLOW MODE ACTUATOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- AIRFLOW MODE ACTUATOR INSPECTION [MANUAL AIR CONDITIONER]
- BLOWER MOTOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- BLOWER MOTOR INSPECTION [MANUAL AIR CONDITIONER]
- RESISTOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- RESISTOR INSPECTION [MANUAL AIR CONDITIONER]
- MAGNETIC CLUTCH DISASSEMBLY/ ASSEMBLY [MANUAL AIR CONDITIONER]
- MAGNETIC CLUTCH ADJUSTMENT [MANUAL AIR CONDITIONER]
- MAGNETIC CLUTCH INSPECTION [MANUAL AIR CONDITIONER]
- AMBIENT TEMPERATURE SENSOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- AMBIENT TEMPERATURE SENSOR INSPECTION [MANUAL AIR CONDITIONER]
- EVAPORATOR TEMPERATURE SENSOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- EVAPORATOR TEMPERATURE SENSOR INSPECTION [MANUAL AIR CONDITIONER]
- REFRIGERANT PRESSURE SENSOR REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- REFRIGERANT PRESSURE SENSOR INSPECTION [MANUAL AIR CONDITIONER]
- CLIMATE CONTROL UNIT REMOVAL/ INSTALLATION [MANUAL AIR CONDITIONER]
- CLIMATE CONTROL UNIT INSPECTION [MANUAL AIR CONDITIONER]

Technical Data

- HVAC TECHNICAL DATA

Maintenance/ Service Tools

- HVAC SST