GENERAL INFORMATION

Using Wiring Diagrams

All Models

INTRODUCTION

Mitchell obtains wiring diagrams and technical service bulletins, containing wiring diagram changes from the domestic and import manufacturers. These are checked for accuracy and are all redrawn into a consistent format for easy use.

In the past, when cars were simpler, diagrams were simpler. All components were connected by wires and diagrams seldom exceeded 4 pages in length. Today, some wiring diagrams require more than 16 pages. It would be impractical to expect a service technician to trace a wire from page 1 across every page to page 16.

Removing some of the wiring maze reduces eyestrain and time wasted searching across several pages. Today the majority of Mitchell diagrams follow a much improved format, which permits space for internal switch details.

Wiring diagrams are drawn in a "top-down" format. The diagrams are drawn with the power source at the top of the diagram and the ground point at the bottom of the diagram. Components locations are identified on the wiring diagrams. Component locations are identified on the wiring diagrams. Any wires that don't connect directly to a component are identified on the diagram to indicate where they go.

COLOR ABBREVIATIONS

COLOR ABBREVIATIONS TABLE

<table>
<thead>
<tr>
<th>Color</th>
<th>Normal</th>
<th>Optional</th>
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<tbody>
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IDENTIFYING WIRING DIAGRAM ABBREVIATIONS

NOTE: Abbreviations used on Mitchell diagrams are normally self-explanatory. If necessary see ABBREVIATIONS article in GENERAL INFORMATION.

IDENTIFYING WIRING DIAGRAM SYMBOLS

NOTE: Standard wiring symbol are used in Mitchell diagrams. The illustration below will help clarify any symbols that are not easily understood at a glance. Most components are labeled "Motor", "Switch" or "Relay" in addition to being drawn with the standard symbol.
HOW TO USE SYSTEM WIRING DIAGRAMS

1985 Toyota Corolla (RWD)

For Res 555 Main Street Clarksville Va 22901

Fig. 1: Identifying Wiring Diagram Symbols

WIRING DIAGRAM COMPONENT LOCATIONS
When trying to locate a component in a wiring diagram and you don't know the specific system where it is located, use this handy component locator to find the system wiring diagram in which the component is located. Then, go to that system and locate the component within the wiring diagram.

For example, if you don't know the specific system in which the ignition switch is located, look up ignition switch in the wiring diagram component location tables and go to the appropriate wiring diagram(s) which contain either full or partial views of the ignition switch. The full view of the ignition switch is located in Power Distribution.

The first listing for the component will be the full or most complete view of the component. Additional listings will be partial views of the component. Not all components are used on all models.

All components will have a partial view in Ground Distribution and Power Distribution. Data Link Connectors show connecting circuits between modules. Alternate names for components may be listed in wiring diagram component locations tables.

WIRING DIAGRAM COMPONENT LOCATIONS TABLE

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<thead>
<tr>
<th>Component</th>
<th>Wiring Diagram</th>
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<td>Anti-Lock Brakes</td>
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<td>ABS Hydraulic Unit</td>
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<td>Air Bag Restraint System</td>
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<td>Air Temperature Sensor</td>
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<td>Generators &amp; Regulators</td>
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<td>Autostick Switch</td>
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<td>Exterior Lights</td>
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Electronic Level Control (ELC) Module ......... Electronic Suspension
Engine Coolant Temperature (ECT)
  Sending Unit .................................. Analog Instrument Panels
Engine Coolant Temperature (ECT) Sensor ......... Engine Performance
Engine Control Module ............................ Engine Performance
Generators & Regulators
  Starters
ETACS ECU ........................................ Warning Systems
  Power Windows
  Remote Keyless Entry
Evaporative (EVAP) Emissions Canister ........... Engine Performance
EVAP Canister Purge Solenoid .................... Engine Performance
EVAP Canister Vent Solenoid ........................ Engine Performance
Exhaust Gas Recirculation (EGR) Valve ............ Engine Performance
Fuel Tank Vacuum Sensor ............................ Engine Performance
Fog Lights .......................................... Headlight Systems
  Daytime Running Lights
Fog Light Relay .................................... Headlight Systems
  Daytime Running Lights
Fuel Door Release Solenoid ....................... Power Fuel Door Release
Fuel Gauge Sending Unit ......................... Analog Instrument Panels
Fuel Injectors ..................................... Engine Performance
Fuel Pump .......................................... Engine Performance
Fuel Pump Relay ................................... Engine Performance
Power Distribution
Fuse/Relay Block .................................. Power Distribution
Fusible Links ...................................... Power Distribution
Generator .......................................... Generators & Regulators
  Starters
  Generators & Regulators
  Engine Performance
  Power Distribution
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  Electronic Suspension
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Glow Plugs ......................................... Engine Performance
Grounds ........................................... Ground Distribution
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Headlight Relay ..................................... Headlight Systems
  Daytime Running Lights
Headlights .......................................... Headlight Systems
  Daytime Running Lights
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Heated Windshield Control Module .............. Heated Windshields
Height Sensor ..................................... Electronic Suspension
Horns ................................................ Steering Column Switches
Horn Relay ......................................... Steering Column Switches
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Ignition Key Lock Cylinder ............................... Anti-Theft System
Ignition Module ........................................... Engine Performance
Ignition Switch ........................................... Power Distribution
                              Engine Performance
Generators & Regulators
                              Starters
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Illumination Lights .................. Illumination/Interior Lights
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Inertia Fuel Shutoff Switch .................. Engine Performance
Inhibit Relay ........................................ Starters
Instrument Cluster .................................... Analog Instrument Panels
Intake Air Temperature (IAT) Sensor ........ Engine Performance
Interior Lights ........................................ Illumination/Interior Lights
Interlock Switch ........................................ Starters
Junction Block ........................................ Power Distribution
Keyless Entry Receiver ...................... Remote Keyless Entry
Key Reminder Switch ................................... Starters
Knock Sensor ........................................... Engine Performance
Lamp Control Module ........................... Exterior Lights
License Plate Lamp ................................. Exterior Lights
Lighting Control Module ...................... Lighting Control Modules
                              Anti-Theft System
                              Daytime Running Lights
                              Headlight Systems
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Malfunction Indicator Light (MIL) ........... Engine Performance
                              Instrument Panels
Manifold Absolute Pressure (MAP) Sensor ... Engine Performance
Mass Airflow (MAF) Sensor ..................... Engine Performance
Mega Fuse ........................................ Generators & Regulators
Memory Seat/Mirror Module ................ Memory Systems
Mirror Defogger ....................................... Rear Window Defogger
Moon Roof Motor ................................. Power Moon Roof
Moon Roof Relay ................................. Power Moon Roof
Multi-Function Control Module ............... Warning Systems
Neutral Safety Switch ................................... Starters
Oil Level Switch ...................................... Engine Performance
Oil Pressure Switch/Sending Unit .............. Analog Instrument Panels
                              Engine Performance
Overhead Console ................................. Overhead Console
Oxygen Sensor(s) (O2S) ......................... Engine Performance
Parking Brake Switch ............................... Analog Instrument Panels
Park Lights ........................................... Exterior Lights
Park/Neutral Position Switch .................... Starters
                              Engine Performance
                              Anti-Theft System
## HOW TO USE SYSTEM WIRING DIAGRAMS

### Body Control Module
- Body Control Module
- Perimeter Lighting Control Relay
- Power Amplifier
- Power Antenna Module
- Power Antenna Motor
- Power Distribution Center
- Power Distribution Generators & Regulators Starters

### Power Door Locks
- Power Door Lock Motors
- Power Door Locks Starters

### Power Mirrors
- Power Mirror Motors
- Power Mirrors Memory Systems

### Memory Systems
- Power Sliding Door Controller
- Power Seat Motors
- Power Sliding Side Door Power Seats Memory Systems

### Engine Performance
- Power Steering Pressure Switch
- Power Top Motor
- Power Top Relay(s)
- Power Convertible Top

### Electric Cooling Fans
- Powertrain Control Module
- Power Window Motors
- Power Window Relay(s)
- Power Convertible Top

### Wiper/Washer Systems
- Rainsense Module
- Raise Relay
- Power Convertible Top

### Anti-Theft System
- Remote Anti-Theft Personality (RAP) Module
- Power Anti-Theft System Starters

### Air Bag Restraint System
- Seat Belt Pretensioners
- Seat Belt Retractor Solenoid
- Seat Belt Switch
- Air Bag Restraint System Passive Restraints

### Shift Interlock Systems
- Shift Interlock Solenoid
- Shift Lock Actuator
- Shift Interlock Systems

### Exterior Lights
- Side Marker Lights
- SIR Coil Assembly (Clockspring)
- Slip Ring (Clockspring)
- Air Bag Restraint System Steering Column Switches

### Air Bag Restraint System
- SRS Control Module
- Starter Motor
- Starter Interrupt Relay
- Starter Solenoid
- Starter Relay
- Starters Starters
Steering Wheel Position Sensor  .................................. Anti-Lock Brakes
Stoplights ................................................................. Exterior Lights
Stoplight Switch ........................................................... Engine Performance
Cruise Control Systems
Anti-Lock Brakes
Sun Roof ECU .............................................................. Power Sun Roof
Sun Roof Motor ............................................................. Power Sun Roof
Sun Roof Position Sensor ............................................... Power Sun Roof
Taillights ................................................................. Exterior Lights
Throttle Position (TP) Sensor ........................................... Engine Performance
Torque Converter Clutch Solenoid/Switch ........................... Engine Performance
Traction Control Switch .................................................. Anti-Lock Brakes
Trailer Tow Connector .................................................... Exterior Lights
Trailer Tow Relay ........................................................... Exterior Lights
Transmission/Transaxle ...................................................... Engine Performance
Transmission Control Module (TCM) ...................................... Engine Performance
Starters
Transmission Range Sensor ........................................... Starters
Transmission Range Switch .............................................. Back-Up Lights
Back-Up Lights
Engine Performance
Anti-Theft System
Turn Signal Flasher ......................................................... Exterior Lights
Turn Signal Lights ............................................................ Exterior Lights
Twilight Sentinel Switch .................................................. Headlight Systems
Daytime Running Lights
Vapor Canister Leak Detection Pump ................................... Engine Performance
Vehicle Control Module (VCM) ........................................... Engine Performance
Vehicle Dynamic Module .................................................. Electronic Suspension
Vehicle Speed Control Servo ............................................. Cruise Control Systems
Vehicle Speed Sensor .................................................. Data Link Connectors
Analog Instrument Panels
Cruise Control Systems
Electronic Suspension
Voltage Regulator ............................................................. Generators & Regulators
Water-In-Fuel Sensor ................................................... Engine Performance
Analog Instrument Panels
Wheel Speed Sensors ...................................................... Anti-Lock Brakes
Window Timer Module ...................................................... Power Convertible Top
Windshield Intermittent Wiper Relay ..................................... Wiper/Washer Systems
Windshield Washer Motor ................................................ Wiper/Washer Systems
Wiper Motor ................................................................. Wiper/Washer Systems

END OF ARTICLE