



Figure and Data Page Layout

Figure Pages

Each Figure represents a specific electrical system of the vehicle. The Figures are arranged numerically by system (**01 - Power Distribution, 02 - Battery; Starter; Generator, etc.**) with variations in the system identified by a numeral following a decimal point (**01.1, 01.2, etc.**). Refer to the **Table of Contents: Figures** for a complete list of the Figures.

The Figures **01 - Power Distribution** detail the distribution of power to each of the systems. Numbered reference symbols refer the user to a specific Figure and from a specific Figure back to the Power Distribution Figures. This method eliminates the need to include detailed Power Distribution information on each of the Figures. The reference symbols are defined on page 12.

Each Figure appears on a right-hand page with a corresponding Data page to the left. The Figure and Data pages are folding pages. The user must fold out both pages in order to access all the information provided.

Data Pages

The Data page includes information to assist the user in identifying and locating components, connectors and grounds. This information is supplemented by the illustrations in this front section of the book.

When network data is required for the understanding of a particular circuit, the user is directed to the Appendix.

Most circuits that incorporate a control module include pinout information. The characteristics listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted. This information is provided to assist the user in understanding circuit operation and should be used FOR REFERENCE ONLY.



CONTROL MODULE PIN OUT INFORMATION

FIGURE NUMBER

COMPONENT, CONNECTOR AND GROUND INFORMATION

CONTROL MODULE PIN-OUT INFORMATION

Engine Control Module - 2.5 L 3.0 L

Pin	Description and Characteristic
1	DN1400 ENGINE CRANK - B
1	DN1401 PULSE RECTIFIER SWITCH (AUTOMATIC TRANSMISSIONS, NORMALLY CLOSED) - B, R & N
0	DN1401 STARTER RELAY DRIVE - TO ACTIVATE, ECM SWITCHES CIRCUIT TO GROUND
0	DN1402 GENERATOR CONTROL - NORMAL VOLTAGE
1	DN1403 GENERATOR FIELD ACTUATOR SIGNAL - NORMAL VOLTAGE BY GENERATOR OPERATING CONDITION
1	DN1404 GENERATOR CHARGE (FIELD) - B, NORMAL, AFTER START SWITCHING (GENERATOR UNDERLOAD, LATER START SWITCH ON)
0	DN1412 GND
0	DN1413 GND

General Electronic Module

Pin	Description and Characteristic
6	IP1-10 SCP
5	IP1-10 SCP
1	IP1-08 KEY-IN SWITCH SWITCH - B- WASH KEY-IN

Instrument Cluster

Pin	Description and Characteristic
0	IP1-10 INT1 - ENCODED COMMUNICATION
0	IP1-08 INT2 - ENCODED COMMUNICATION
1	IP1-08 INT3 - ENCODED COMMUNICATION
0	IP1-07 GND
0	IP1-06 INT4 - TRANSDUCER POWER - B
0	IP1-05 GND
0	IP1-04 SCP
0	IP1-03 SCP
1	IP1-08 POWER-LOCKING - LOCKED
1	IP1-10 IGNITION SWITCHED POWER SUPPLY (B) - B

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor Signal Ground	DZ	D2B Network	PWM	Pulse Width Modulated

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

Fig. 02.1

Component	Connector(s)	Connector Description	Location
BATTERY	-	-	ENGINE COMPARTMENT
CLUTCH PEDAL SAFETY SWITCH	PA1	3-WAY / WHITE	TOP OF CLUTCH PEDAL
ENGINE CONTROL MODULE - 2.5 L, 3.0 L	DN14	16-WAY / BLACK	ENGINE COMPARTMENT (FRONT BATTERY) - RH SIDE
GENERAL ELECTRONIC MODULE	DN16	22-WAY / GREEN	BEHIND INSTRUMENT PANEL - RH SIDE
	DN17	22-WAY / GREEN	BEHIND INSTRUMENT PANEL - RH SIDE
	PA1	22-WAY / GREEN	BEHIND INSTRUMENT PANEL - RH SIDE
	PA2	22-WAY / GREEN	BEHIND INSTRUMENT PANEL - RH SIDE
	PA3	22-WAY / GREEN	BEHIND INSTRUMENT PANEL - RH SIDE
GENERATOR - 2.5 L, 3.0 L, 3.0 L	DN20	4-WAY / BLACK	ENGINE BAY (FRONT)
IGNITION SWITCH	IP18	3-WAY / BLACK	STEERING COLUMN
INSTRUMENT CLUSTER	IP11	24-WAY / WHITE	INSTRUMENT PANEL
PASSIVE ANTI-THEFT SYSTEM TRANSDUCER	IP16	24-WAY / WHITE	STEERING COLUMN, IGNITION SWITCH
POWER DISTRIBUTION FUSE BOX	IP19	4-WAY / BLACK	ENGINE COMPARTMENT
STARTER MOTOR - 2.5 L, 3.0 L, 3.0 L	DN19	4-WAY / BLACK	ENGINE BAY - RH SIDE
STARTER RELAY	ST1	EYELET	POWER DISTRIBUTION FUSE BOX - R12
TRANSMISSION RANGE SENSOR	JR14	10-WAY / BLACK	TOP OF TRANSMISSION

Connector	Connector Description	Location
JR1	BLACK - ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT - LH SIDE
JR1	WHITE - GREEN - ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS (PCAL ASSEMBLY)	BELOW INSTRUMENT PANEL - (DRIVER SIDE)
JR10	GREEN - GREEN - JUNCTION BOX HARNESS TO INSTRUMENT PANEL HARNESS	BELOW INSTRUMENT PANEL - LH SIDE
JR16	BROWN - BLACK - ENGINE MANAGEMENT HARNESS TO JUNCTION BOX HARNESS	ENGINE COMPARTMENT - LH SIDE

Ground	Harness	Location
400	400	BEHIND FUSING GROUND
014	003	ENGINE COMPARTMENT - UNDER BATTERY TRAY
006	01	BEHIND INSTRUMENT PANEL - LH SIDE OR CROSS CAR BEAM
027	01	BEHIND INSTRUMENT PANEL - RH SIDE OF CROSS CAR BEAM

FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.

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DATA PAGE

FIGURE MODEL RANGE AND YEAR TITLE FIGURE NUMBER

