



# Technical Service Information

## CADILLAC 4T80-E

### ON BOARD DIAGNOSTIC PROCEDURE

To enter the On Board Diagnostic system on the Cadillacs equipped with the THM 4T80-E transaxle, press the "Off" and "Warmer" buttons simultaneously on the Climate Control Center as shown in Figure 1. Refer to the flow chart in Figure 3 for 1993-1996 models and flow chart in Figure 4 for 1996-1998 models. The reason for the overlap is that we have seen OBD II and Non OBD II vehicles in the 1996 model year. Refer to Figure 2 for the explanation of the status light display when in the On Board Diagnostics.

*Refer to Figures 5, 6, and 7 for 1993-1996 Diagnostic Codes.*

*Refer to Figures 8, 9, and 10 for 1996-1998 OBD II Diagnostic Codes.*

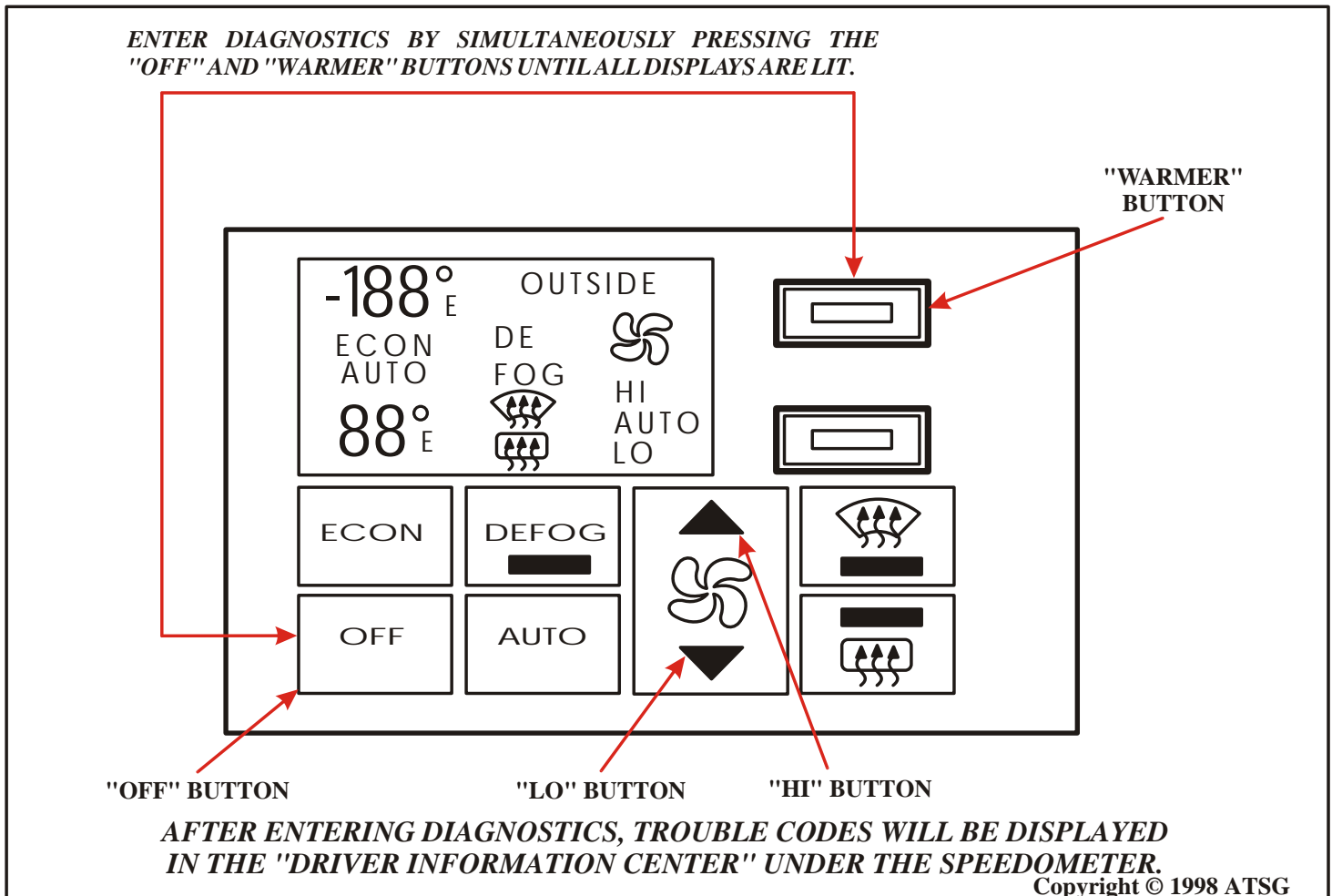
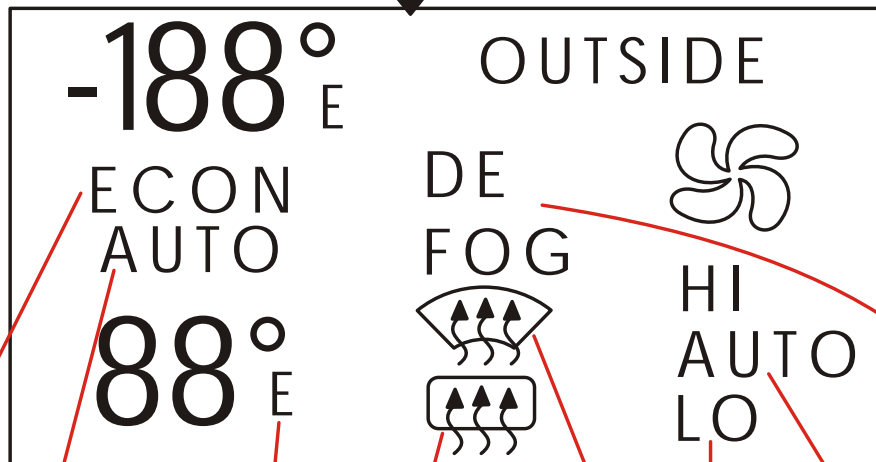
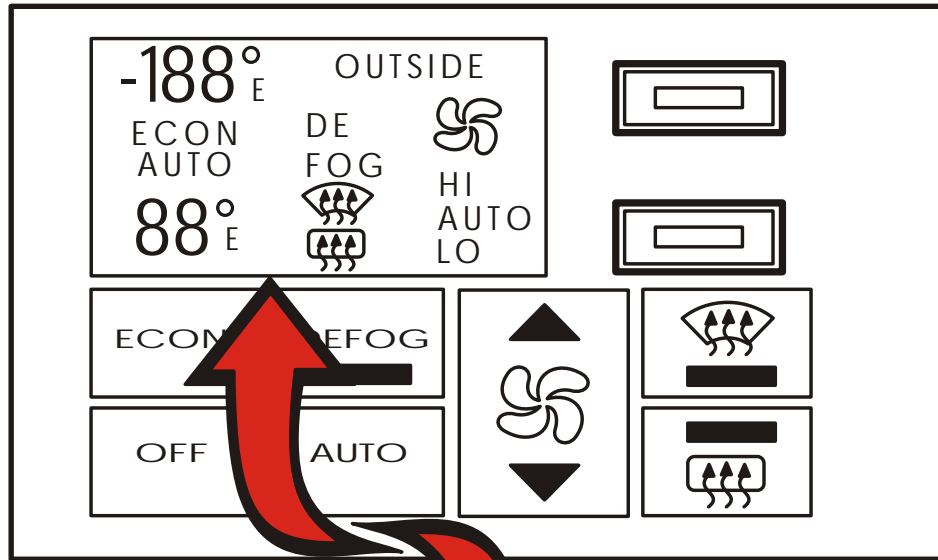


Figure 1

## CLIMATE CONTROL CENTER



INDICATOR	ECON	AUTO	°E	REAR DEF.	FRONT DEF.	LO	AUTO	DEFOG
<b>LIGHT ON</b>	ENERGIZED	CLOSED LOOP	DISABLED	ENABLED	ENERGIZED	CLOSED	PARK/NEUT	ENERGIZED
<b>LIGHT OFF</b>	DE-ENERGIZED	OPEN LOOP	ENABLED	DISABLED	DE-ENERGIZED	OPEN	NOT P/N	DE-ENERGIZED
<b>FUNCTION</b>	SHIFT "B" SOLENOID	PCM OPERATING MODE (LOOP)	SHIFT ADAPT STATUS	TCC OUTPUT	A/C CLUTCH COMMAND	THROTTLE SWITCH	TRANS RANGE SWITCH	SHIFT "A" SOLENOID

## PCM STATUS LIGHT DISPLAY

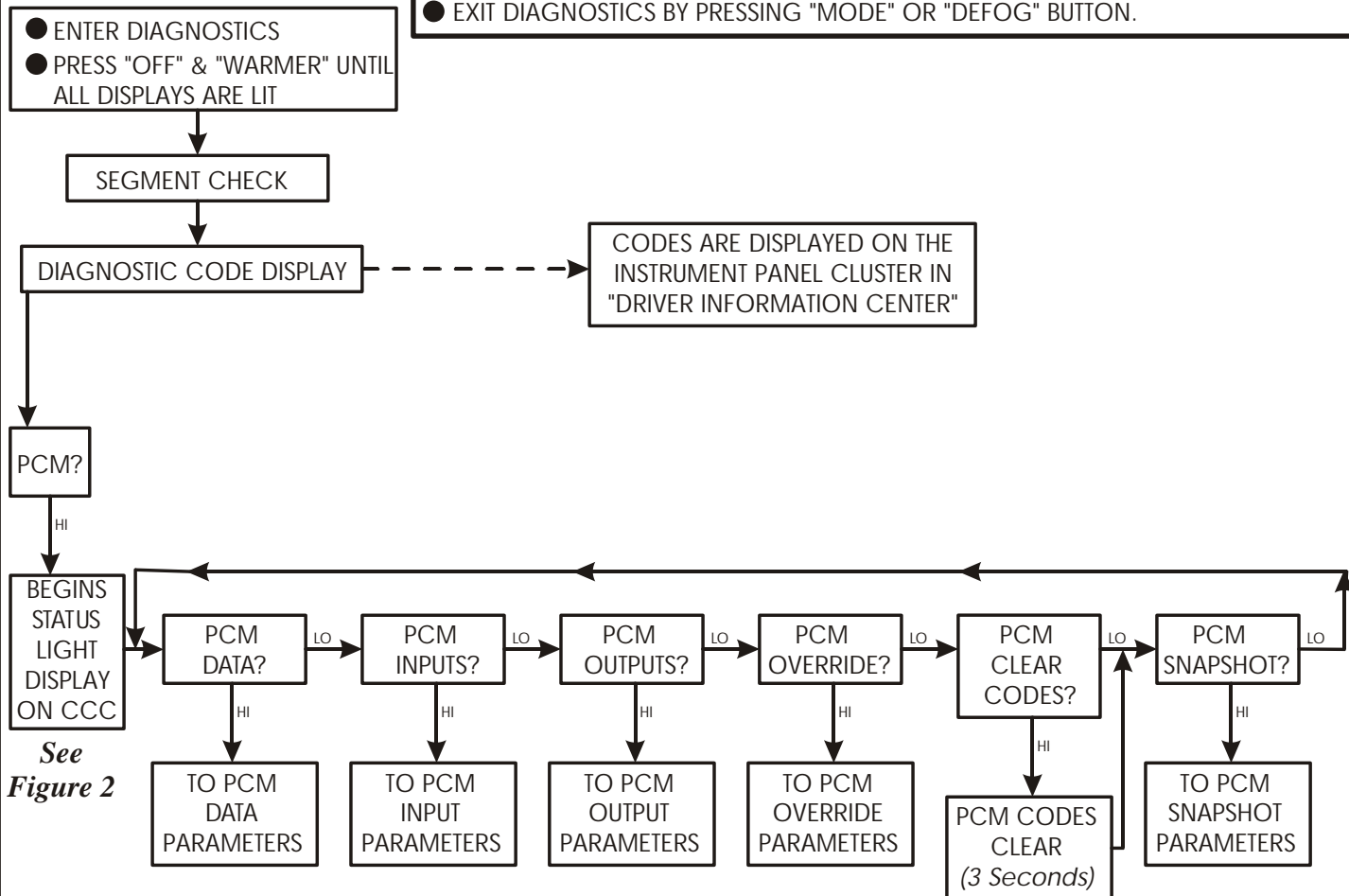
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Figure 2

## 1993-1996 ON BOARD DIAGNOSTIC MODELS

### 1993-1996 ON BOARD DIAGNOSTICS -- BASIC OPERATION

- ENTER DIAGNOSTICS BY SIMULTANEOUSLY PRESSING "OFF" AND "WARMER" BUTTONS OR "OFF" AND "PASS WARMER" UNTIL ALL DISPLAYS ARE LIT
- TO PROCEED TO THE DESIRED LEVEL, PRESS AND RELEASE THE INDICATED BUTTON.
- PRESS "OFF" TO RETURN TO THE NEXT SELECTION IN THE PREVIOUS LEVEL.
- EXIT DIAGNOSTICS BY PRESSING "MODE" OR "DEFOG" BUTTON.



**POWERTRAIN CONTROL MODULE (PCM) CODES = P0XX**

**INSTRUMENT PANEL CLUSTER (IPC) CODES = I0XX**

**AIR CONDITIONING PROGRAMMER (ACP) CODES = A0XX**

**SUPPLEMENTAL INFLATABLE RESTRAINT (SIR) CODES = R0XX**

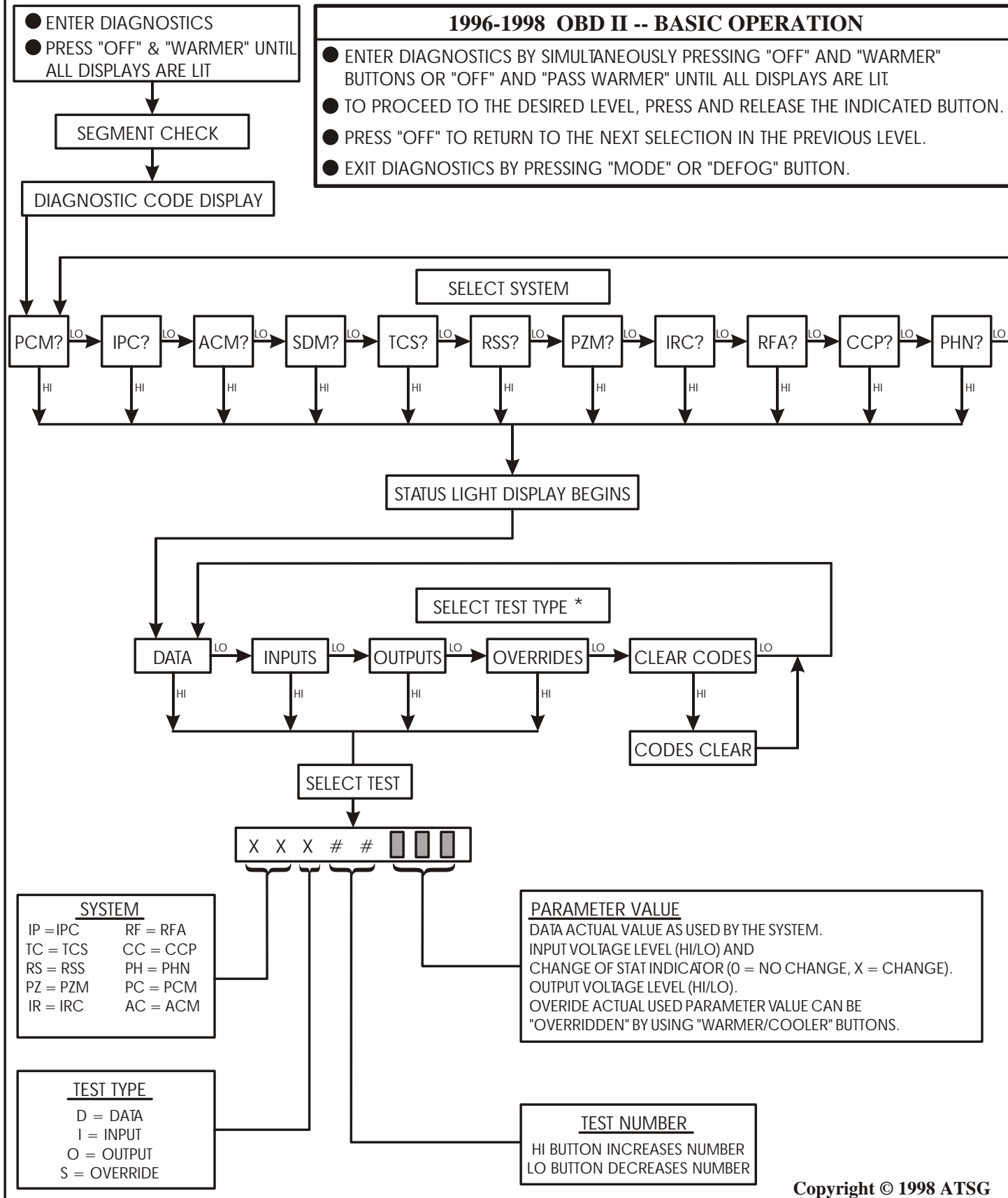
**ROAD SENSING SUSPENSION (RTD) CODES = S0XX**

**ANTI-LOCK BRAKE & TRACTION CONTROL SYSTEM (ABS/TCS) CODES = T0XX**

## 1996-1998 OBD II MODELS

### 1996-1998 OBD II -- BASIC OPERATION

- ENTER DIAGNOSTICS BY SIMULTANEOUSLY PRESSING "OFF" AND "WARMER" BUTTONS OR "OFF" AND "PASS WARMER" UNTIL ALL DISPLAYS ARE LIT.
- TO PROCEED TO THE DESIRED LEVEL, PRESS AND RELEASE THE INDICATED BUTTON.
- PRESS "OFF" TO RETURN TO THE NEXT SELECTION IN THE PREVIOUS LEVEL.
- EXIT DIAGNOSTICS BY PRESSING "MODE" OR "DEFOG" BUTTON.



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Figure 4



# Technical Service Information

## 1993-1996 POWERTRAIN CONTROL MODULE (PCM) DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
P012	No 4X Reference Signal From Ignition Control Module	P058	PASS Key ® Fuel Enable Problem
P013	Rear Heated Oxygen Sensor Not Ready	P059	Open Transaxle Temperature Sensor Circuit
P014	Shorted Engine Coolant Temperature Sensor	P060	Cruise Control, Transaxle Not In Drive
P015	Open Engine Coolant Temperature Sensor	P061	Cruise Control, Vent Solenoid Problem
P016	Generator Voltage Out Of Range (EVAP, EGR, CRUISE, TCC Transaxle Pressure Control, Long Term Fuel Trim)	P062	Cruise Control, Vacuum Solenoid Problem
P017	Front Heated Oxygen Sensor Not Ready	P063	Set vs Vehicle Speed Difference
P019	Shorted Fuel Pump Circuit	P064	Vehicle Acceleration Too High (Cruise)
P020	Open Fuel Pump Circuit	P065	Cruise Control Servo Position Sensor Failure
P021	Shorted Throttle Position Sensor	P066	Cruise Control, Engine RPM Too High
P022	Open Throttle Position Sensor	P067	Set/Coast Or Resume/Accel Input Shorted
P023	Ignition Control Circuit Problem	P068	Cruise Control Servo Position Out Of Range
P024	Vehicle Speed Sensor Circuit Problem	P069	Traction Control Active While In Cruise
P025	24X Reference Signal Low	P070	Intermittent Throttle Position Sensor
P026	Shorted Throttle Position Switch Circuit	P071	Intermittent Manifold Absolute Pressure Sensor
P027	Open Throttle Position Switch Circuit	P073	Intermittent Engine Coolant Temp Sensor
P028	Transaxle Pressure Switch Circuit Problem	P074	Intermittent Intake Air Temperature Sensor
P029	Transaxle Shift "B" Solenoid Problem (1st, 3rd, 4th Gear)	P075	Vehicle Speed Sensor Signal Interrupt
P030	Idle Speed Control RPM Out Of Range	P076	Transaxle EPC Solenoid Circuit Malfunction
P031	Shorted Manifold Absolute Pressure Sensor	P080	TP Sensor/Idle Learn Not Complete
P032	Open Manifold Absolute Pressure Sensor	P081	CAM To 4X Reference Correlation Problem
P033	Cruise Brake Switch Input Circuit Problem	P083	24X Reference Signal High
P034	Manifold Absolute Pressure Sensor Signal High	P085	Idle Throttle Angle Too High
P035	Ignition Ground Voltage Out Of Range	P086	Undefined Gear Ratio
P036	EGR Valve Pintle Position Out Of Range	P088	Torque Converter Clutch Not Disengaging
P037	Shorted Intake Air Temperature Sensor	P089	Long Shift And Maximum Adapt
P038	Open Intake Air Temperature Sensor	P090	TCC Brake Switch Input Circuit Problem
P039	Torque Converter Clutch Engagement Problem	P091	Transaxle Range Switch Problem (Cruise)
P040	Power Steering Pressure Switch Open	P092	Heated Winshield Request Problem
P041	No Cam Reference Signal From Ignition Module	P093	Traction Control System PWM Link Failure
P042	Front Heated Oxygen Sensor Lean Exh. Signal	P094	Transaxle Shift "A" Solenoid Problem
P043	Front Heated Oxygen Sensor Rich Exh. Signal	P095	Engine Stall Detected
P044	Rear Heated Oxygen Sensor Lean Exh. Signal	P096	Torque Converter Overstress
P045	Rear Heated Oxygen Sensor Rich Exh. Signal	P097	P/N To D/R At High Throttle Angle
P046	Left To Right Bank Fueling Difference	P099	Cruise Control Servo Applied, Not In Cruise
P047	PCM/BCM Data Link Problem	P102	Shorted Brake Booster Vacuum Sensor
P048	EGR System Malfunction	P103	Open Brake Booster Vacuum Sensor
P051	PROM Checksum Mismatch	P105	Brake Booster Vacuum Too Low
P052	PCM Keep Alive Memory Reset	P106	Stop Lamp Switch Input Circuit Problem
P053	4X Reference Signal Interrupt From Ign. Module	P107	PCM/BCM Data Link Problem
P055	Closed Throttle Angle Out Of Range (TPS Learn)	P108	PROM Checksum Mismatch
P056	Transaxle Input Speed Sensor Circuit Problem	P109	PCM Keep Alive Memory Reset
P057	Shorted Transaxle Temperature Sensor Circuit	P110	Generator L - Terminal Circuit Problem
		P112	Total EEPROM Failure
		P117	Shift "A"/Shift "B" Circuit, Open/Shorted
		P131	Active Knock Sensor Failure
		P132	Knock Sensor Circuitry Failure
		P137	Loss Of ABS/TCS Data

Figure 5



## Technical Service Information

### CADILLAC 4T80-E 1993-1996 MODELS INSTRUMENT PANEL CLUSTER (IPC) DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
I022	Dimming Potentiometer Problem	I039	CCR Or RTD System Problem
I032	Loss Of ABS/TCS Data Communication	I041	Battery Voltage Low
I033	Loss Of SIR Data Communication	I042	Battery Voltage High
I034	Loss Of PCM Data Communication	I052	IPC Loss Of Memory
I037	Loss Of ACP Data Communication	I056	IPC EEPROM Error

### AIR CONDITIONING PROGRAMMER (ACP) DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
A010	Outside Air Temperature Sensor Circuit	A046	Low Refrigerant Charge
A011	High Side Temperature Sensor Circuit	A047	Low Refrigerant Charge
A012	Low Side Temperature Sensor Circuit	A048	Low Refrigerant Pressure
A013	Inside Air Temperature Sensor Circuit	A049	High Side Temperature Too High
A015	Sunload Sensor Circuit	A050	AC Coolant Temperature Too High
A037	Loss Of IPC Data	A052	Keep Alive Memory Error
A040	Air Mix Door Circuit Problem		

### SUPPLEMENTAL INFLATABLE RESTRAINT (SIR) DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
R014	Dual Pole Arming Sensor Disconnected	R036	Passengers Loop Energy Reserve Feed Open
R015	Passengers Initiator Circuit Resistance High	R042	Loop Energy Reserve Voltage Low
R016	Passengers Initiator Circuit Resistance Low	R043	Drivers Source Feed Low
R017	Passengers Initiator Circuit Open	R044	Passengers Source Feed Low
R018	Discriminating Sensor Interconnect Open	R051	Frontal Crash Detected
R019	Passengers Initiator Circuit Voltage High	R052	Data Area Full
R021	Drivers Initiator Circuit Resistance High	R053	Drivers Sense Resistance Low/High
R022	Drivers Initiator Circuit Resistance Low	R054	Passengers Sense Resistance Low/High
R023	Drivers Initiator Circuit Voltage High	R061	SIR Indicator Redundant Or Circuit Failure
R024	Initiator Circuit Voltage Low	R062	SIR Indicator Redundant Or Circuit Failure
R025	Initiator Circuit Voltage Short To Ignition	R071	Internal DERM Fault
R026	Drivers Initiator Circuit Open	R081	Drivers Ignition Diode Open
R028	Current Sink Or Source Failure	R082	Passengers Ignition Diode Open
R031	Drivers Loop Energy Reserve Feed Open	R083	(History) Drivers Reserve Diode Shorted
R034	Dual Pole Arming Sensor Feed Open	R084	(History) Passengers Reserve Diode Shorted
R035	Discriminating Sensor Open Or Missing		

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Figure 6



## Technical Service Information

### CADILLAC 4T80-E 1993-1996 MODELS ROAD SENSING SUSPENSION (RTD) DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
S010	LF Damper Solenoid Short To Battery Voltage	S060	LF Position Sensor Fault
S011	LF Damper Solenoid Short To Ground/Open	S061	RF Position Sensor Fault
S015	RF Damper Solenoid Short To Battery Voltage	S062	LR Position Sensor Fault
S016	RF Damper Solenoid Short To Ground/Open	S063	RR Position Sensor Fault
S020	LR Damper Solenoid Short To Battery Voltage	S064	LF Position Sensor Overcurrent
S021	LR Damper Solenoid Short To Ground/Open	S065	RF Position Sensor Overcurrent
S025	RR Damper Solenoid Short To Battery Voltage	S066	LR Position Sensor Overcurrent
S026	RR Damper Solenoid Short To Ground/Open	S067	RR Position Sensor Overcurrent
S030	Speed Sensitive Steering Solenoid Fault	S070	LF Accelerometer Fault
S035	ELC Compressor Short To Battery Voltage	S071	RF Accelerometer Fault
S036	ELC Compressor Short To Ground/Open	S072	LR Accelerometer Fault
S037	ELC Exhaust Valve Short To Battery Voltage	S073	RR Accelerometer Fault
S038	ELC Exhaust Valve Short To Ground/Open	S074	LF Accelerometer Overcurrent
S043	Speed Signal Fault	S075	RF Accelerometer Overcurrent
S044	Lift/Dive Signal Fault	S076	LR Accelerometer Overcurrent
S050	RSS Module Fault	S077	RR Accelerometer Overcurrent
S055	RSS Resistor Module Short To Ground/Open		

### ANTI-LOCK BRAKE & TRACTION CONTROL SYSTEM (ABS/TCS) DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
T021	RF Wheel Speed Sensor Fault	T041	RF ABS Valve Solenoid Fault
T022	RF Wheel Speed Sensor Frequency Error	T044	RF TCS Pilot Valve Fault
T023	RF Wheel Speed Sensor Continuity Fault	T045	LF ABS Valve Solenoid Fault
T025	LF Wheel Speed Sensor Fault	T048	LF TCS Pilot Valve Fault
T026	LF Wheel Speed Sensor Frequency Error	T051	RR ABS Valve Solenoid Fault
T027	LF Wheel Speed Sensor Continuity Fault	T055	LR TCS Pilot Valve Fault
T028	Wheel Speed Sensor Frequency Error	T061	Pump Motor Or Relay Fault
T031	RR Wheel Speed Sensor Fault	T063	Valve Relay Fault
T032	RR Wheel Speed Sensor Frequency Error	T067	Brake Light Switch Fault (TCS Equipped Only)
T033	RR Wheel Speed Sensor Continuity Fault	T071	Electronic Brake & Traction Control (EBTCM/EBCM) Internal Fault
T035	LR Wheel Speed Sensor Fault	T072	Serial Data Link Fault
T036	LR Wheel Speed Sensor Frequency Error	T073	PCM - EBTCM/EBCM, PWM Signal Fault
T037	LR Wheel Speed Sensor Continuity Fault	T083	Low Brake Fluid Level

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Figure 7





## Technical Service Information

### 1996-1998 POWERTRAIN CONTROL MODULE (PCM) OBDII DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
P0101	Mass Air Flow System Performance	P0153	Heated Oxygen Sensor Slow Response Bank 2, Sensor 1 (Front)
P0102	Mass Air Flow Sensor Circuit Low Frequency	P0154	Heated Oxygen Sensor Insufficient Activity Bank 2, Sensor 1 (Front)
P0103	Mass Air Flow Sensor Circuit High Frequency	P0155	Heated Oxygen Sensor Heater Circuit Bank 2, Sensor 1 (Front)
P0105	MAP Sensor Circuit Insufficient Activity	P0171	Fuel Trim System Lean Bank 1
P0106	MAP Sensor Circuit System Performance	P0172	Fuel Trim System Rich Bank 1
P0107	MAP Sensor Circuit Low Voltage	P0174	Fuel Trim System Lean Bank 2
P0108	MAP Sensor Circuit High Voltage	P0175	Fuel Trim System Rich Bank 2
P0111	Intake Air Temp Sensor Circuit Performance	P0201	Injector No. 1 Control Circuit
P0112	Intake Air Temp Sensor Circuit Low Voltage	P0202	Injector No. 2 Control Circuit
P0113	Intake Air Temp Sensor Circuit High Voltage	P0203	Injector No. 3 Control Circuit
P0116	Engine Coolant Temp Sensor Circuit Perf.	P0204	Injector No. 4 Control Circuit
P0117	Engine Coolant Temp Sensor Low Voltage	P0205	Injector No. 5 Control Circuit
P0118	Engine Coolant Temp Sensor High Voltage	P0206	Injector No. 6 Control Circuit
P0120	Throttle Position Sensor System Performance	P0207	Injector No. 7 Control Circuit
P0121	TPS Circuit Insufficient Activity	P0208	Injector No. 8 Control Circuit
P0122	Throttle Position Sensor Circuit Low Voltage	P0218	Transaxle Fluid Overtemperature
P0123	Throttle Position Sensor Circuit High Voltage	P0231	Fuel Pump Feedback Circuit Low Voltage
P0125	Engine Coolant Temp Excessive Time To Closed Loop Fuel Control	P0232	Fuel Pump Feedback Circuit High Voltage
P0131	Heated Oxygen Sensor Low Voltage Bank 1, Sensor 1 (Rear)	P0300	Engine Misfire Detected
P0132	Heated Oxygen Sensor High Voltage Bank 1, Sensor 1 (Rear)	P0322	Ignition Control Module 4X Reference Circuit No Frequency
P0133	Heated Oxygen Sensor Slow Response Bank 1, Sensor 1 (Rear)	P0325	Knock Sensor Module Circuit
P0134	Heated Oxygen Sensor Insufficient Activity Bank 1, Sensor 1 (Rear)	P0326	Knock Sensor Circuit Excessive Spark Retard
P0135	Heated Oxygen Sensor Heater Circuit Bank 1, Sensor 1 (Rear)	P0327	Knock Sensor Circuit Low Voltage
P0137	Heated Oxygen Sensor Low Voltage Bank 1, Sensor 2 (Pre-Converter)	P0340	Ignition Control Module Cam Reference Circuit No Frequency
P0138	Heated Oxygen Sensor High Voltage Bank 1, Sensor 2 (Pre-Converter)	P0371	Ignition Control Module 24X Reference Circuit Too Many Pulses
P0139	Heated Oxygen Sensor Slow Response Bank 1, Sensor 2 (Pre-Converter)	P0372	Ignition Control Module 24X Reference Circuit Missing Pulses
P0140	Heated Oxygen Sensor Insufficient Activity Bank 1, Sensor 2 (Pre-Converter)	P0401	Exhaust Gas Recirculation (EGR) System
P0141	Heated Oxygen Sensor Heater Circuit Bank 1, Sensor 2 (Pre-Converter)	P0404	EGR System Performance
P0143	Heated Oxygen Sensor Low Voltage Bank 1, Sensor 3 (Post-Converter)	P0405	EGR Sensor Circuit Voltage Out Of Range
P0144	Heated Oxygen Sensor High Voltage Bank 1, Sensor 3 (Post-Converter)	P0420	Three Way Catalyst Low Efficiency
P0146	Heated Oxygen Sensor Insufficient Activity Bank 1, Sensor 3 (Post-Converter)	P0441	Evaporative System No Flow During Purge
P0147	Heated Oxygen Sensor Heater Circuit Bank 1, Sensor 3 (Post-Converter)	P0502	Vehicle Speed Sensor Circuit Low Input
P0151	Heated Oxygen Sensor Low Voltage Bank 2, Sensor 1 (Front)	P0503	Vehicle Speed Sensor Circuit Intermittent
P0152	Heated Oxygen Sensor High Voltage Bank 2, Sensor 1 (Front)	P0506	Idle Speed Low
		P0507	Idle Speed High
		P0550	Power Steering Pressure Swit. Circuit Low Volt.
		P0560	System Voltage Low
		P0563	System Voltage High
		P0601	PCM Memory
		P0602	PCM Not Programmed
		P0603	PCM Memory Reset
		P0606	PCM Internal Communication Interrupted

Figure 8





# Technical Service Information

## 1996-1998 POWERTRAIN CONTROL MODULE (PCM) OBDII DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
P0711	Transaxle Fluid Temperature Sensor Circuit Range/Performance	P1370	Ignition Control Module 4X Reference Circuit, Too Many Pulses
P0712	TFT Sensor Circuit Low Input	P1371	Ignition Control Module 4X Reference Circuit, Too Few Pulses
P0713	TFT Sensor Circuit High Input	P1375	Ignition Control Module 24X Reference Circuit, High Voltage
P0716	Input Speed Sensor Circuit Intermittent	P1376	Ignition Ground Circuit
P0717	Input Speed Sensor Circuit Low Input	P1377	Ignition Control Module Cam Pulse To 4X Reference Circuit, Pulse Comparison
P0719	Brake Switch Circuit Low Input	P1380	EBTCM DTC Detected Rough Road Data Unusable
P0724	Brake Switch Circuit High Input	P1381	Misfire Detected No EBTCM/PCM Serial Data
P0730	Incorrect Gear Ratio	P1404	EGR Valve Pintle Stuck Open
P0741	TCC System - Stuck OFF	P1406	EGR Valve Pintle Position Circuit
P0742	TCC System - Stuck ON	P1441	Evaporator System Flow During Non-Purge
P0748	Pressure Control Solenoid Circuit Electrical	P1508	Idle Air Control System, Low RPM
P0751	1-2 Shift Solenoid Valve - Performance	P1509	Idle Air Control System, High RPM
P0753	1-2 Shift Solenoid Circuit - Electrical	P1520	Gear Indicator System
P0756	2-3 Shift Solenoid Valve - Performance	P1524	Throttle Position Sensor Learned Closed Throttle Angle Degrees Out Of Range
P0758	2-3 Shift Solenoid Circuit - Electrical	P1526	Throttle Position Sensor Learn Not Complete
P1106	MAP Sensor Circuit Intermittent High Voltage	P1527	Transaxle Range/Pressure Switch Comparison
P1107	MAP Sensor Circuit Intermittent Low Voltage	P1554	Cruise Engaged Circuit High Voltage
P1108	BARO To MAP Signal Circuit Comparison Too High	P1560	Cruise Control System, Transaxle Not In Drive
P1111	Intake Air Temperature Sensor Circuit Intermittent High Voltage	P1564	Cruise Control System, Acceleration Too High
P1112	Intake Air Temperature Sensor Circuit Intermittent Low Voltage	P1566	Cruise Control System, Engine RPM Too High
P1114	Engine Coolant Temperature Sensor Circuit Intermittent Low Voltage	P1570	Cruise Control System, Traction Control Active
P1115	Engine Coolant Temperature Sensor Circuit Intermittent High Voltage	P1571	Traction Control System, PWM Circuit No Frequency
P1121	TPS Circuit Intermittent High Voltage	P1574	EBTCM System, Stop Lamp Switch Circuit Voltage High
P1122	TPS Circuit Intermittent Low Voltage	P1575	Extended Travel Brake Switch High Voltage
P1133	Heated Oxygen Sensor Insufficient Switching Bank 1, Sensor 1 (Rear)	P1576	Brake Booster Vacuum Sensor, High Voltage
P1134	Heated Oxygen Sensor Transition Time Ratio Bank 1, Sensor 1 (Rear)	P1577	Brake Booster Vacuum Sensor, Low Voltage
P1139	Heated Oxygen Sensor Insufficient Switching Bank 1, Sensor 2 (Pre-Converter)	P1578	Brake Booster Vacuum Sensor, Low Vacuum
P1140	Heated Oxygen Sensor Transition Time Ratio Bank 1, Sensor 2 (Pre-Converter)	P1579	P/N To D/R At High Throttle Angle
P1153	Heated Oxygen Sensor Insufficient Switching Bank 2, Sensor 1 (Front)	P1599	Engine Stall Or Near Stall Detected
P1154	Heated Oxygen Sensor Transition Time Ratio Bank 2, Sensor 1 (Front)	P1602	Loss Of EBTCM Serial Data
P1258	Engine Metal Overtemperature Protection	P1604	Loss Of IPC Serial Data
P1320	Ignition Control Module 4X Reference Circuit No Pulses	P1605	Loss Of HVAC Serial Data
P1323	Ignition Control Module 4X Reference Circuit Low Frequency	P1610	Loss Of PZM Serial Data
P1350	Ignition Control System	P1611	Loss Of CVRTD Serial Data
		P1621	PCM Memory Performance
		P1626	Theft Deterent System, Fuel Enable Circuit
		P1630	Theft Deterent System, PCM In Learn Mode
		P1631	Theft Deterent System, Password Incorrect
		P1632	Theft Deterent System, Fuel Disabled

Figure 9



## Technical Service Information

### 1996-1998 POWERTRAIN CONTROL MODULE (PCM) OBDII DIAGNOSTIC CODES

CODE	DESCRIPTION	CODE	DESCRIPTION
P1633	Ignition Supplement Power Circuit Low Voltage		
P1634	Ignition 1 Power Circuit Low Voltage		
P1640	Driver 1 Input High Voltage		
P1641	Malfunction Indicator Lamp Control Circuit		
P1642	Vehicle Speed Output Circuit		
P1644	Delivered Torque Output Circuit		
P1645	EVAP Solenoid Output Circuit		
P1650	Driver 2 Input High Voltage		
P1652	Lift/Dive Output Circuit		
P1654	Cruise Disable Output Circuit		
P1660	Cooling Fan Control Circuits		
P1810	Transaxle Fluid Pressure Manual Valve Position Switch Circuit Malfunction		
P1811	Maximum Adapt and Long Shift		
P1814	Torque Converter Overstress		
P1860	TCC/PWM Solenoid Circuit, Electrical		

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Figure 10