

Listed below is the information retrievable from the various connections.

- A1 Transmission
- B1 Climate Control
- A2 Fuel System
- B2 Cruise Control
- A3 ABS
- B5 SRS
- A5 TCU (Transmission Control)
- B6 Power Seat
- A6 Ignition System
- A7 Combined Instrument

How to Use the Jumpers

Normally “Check Engine Light” information will be found in A2. Put the jumper into A2 and push the black button for one second. Count the red LED light as it blinks back information, blink, blink, pause, blink, blink, blink, pause, blink, blink, is an example of the response you would receive. 2-3-2 would be the code retrieved, now push the button again for one second, again count the blinks, keep checking for codes until one of them repeats, this means you have read all the codes.

Clearing Codes on your 850

Now to clear the codes, push and hold the button for 6-7 seconds, release and as soon as the LED comes on push and hold the button for another 6-7 seconds. Now push the button for one second and read the codes again, you should get 1-1-1 (no faults).

You Must Read All Codes before Clearing

Turn the ignition off and then start the car, the check engine light should be out. It is always a good idea to check for codes, clear them and then drive the vehicle to see if they return before replacing parts. The transmission can ask the check engine light to be turned on, so if you try clearing A2 codes and they wont go away try reading the transmission (A1), clear them , and then go back to A2.

On Board DTC Code**Generic OBD Code Meaning**

A1 — Transmission

111 No faults found

112 Solenoid S1 short circuit to battery voltage

113 Transmission control module (TCM) fault

114 Program selector open circuit or short circuit to supply

121 Solenoid S1 short circuit to ground or control module fault

122 Solenoid S1 open circuit

123 Solenoid STH short circuit to battery voltage

124 Mode selector faulty or short circuit to ground

131 Solenoid STH open/short circuit or control module fault

132 Transmission control module(TCM) fault

134 Faulty load signal from ignition control module

141 Oil temperature sensor short circuit to ground

142 Oil temperature sensor open circuit

143	Kickdown switch faulty or short to ground
211	Transmission control module (TCM) fault
212	S2 solenoid short circuit to battery
213	Throttle position (TPS) signal too high
221	S2 solenoid short circuit to ground or control module fault
222	S2 solenoid open circuit
223	Throttle position (TPS) sensor signal too low
231	Throttle position (TPS) sensor sporadic
232	Speedometer signal missing
233	Incorrect speedometer signal
235	High Oil temperature
245	Open or short in Torque limiting circuit
311	RPM signal from transmission missing
312	RPM signal from transmission faulty
313	Faulty signal from gear position sensor (PNP)

321 Shift time too long

322 Incorrect gear ratio

323 Lock up slips or is not engaged

331 Short circuit to battery in SL circuit

332 SL solenoid open or control module fault

333 SL solenoid short or control module fault

A2 — Fuel System

111 No faults detected

112 Fault in ECM

115 Injector 1

121 MAF sensor signal

123 ECT signal

125 Injector 2

131 RPM sensor signal missing

132 Battery voltage

135	Injector 3
143	Front knock sensor signal
145	Injector 4
153	Rear HO2S signal
154	EGR system leakage
155	Injector 5
212	Front HO2S signal
214	RPM sensor signal sporadic
223	IAC valve opening signal
225	A/C pressure sensor signal
231	Long term fuel trim, part load
232	Long term fuel trim, idling
233	Long term idle air trim
241	EGR system flow malfunction
245	IAC valve closing signal

311	VSS signal
314	CMP sensor signal
315	EVAP system
325	Memory failure
335	Request for MIL lighting from TCM
411	TP sensor signal
413	EGR temp sensor signal
414	Boost pressure regulation
416	Boost pressure reduction from TCM
432	Temperature warning level 1
433	Rear knock sensor signal
435	Front HO2S slow response
436	Rear HO2S compensation
443	Three way cat. Efficiency
444	Acceleration signal

451 Misfire cylinder 1

452 Misfire cylinder 2

453 Misfire cylinder 3

454 Misfire cylinder 4

455 Misfire cylinder 5

513 Temperature warning level 2

514 Engine cooling fan low speed signal

521 Front HO2S Preheating

522 Rear HO2S Preheating

531 Power stage group A

532 Power stage group B

533 Power stage group C

534 Power stage group D

535 TC control valve signal

541 EVAP valve signal

542 Misfire more than one cylinder

543 Misfire at least one cylinder

544 Misfire more than one cylinder, three way cat damage

545 Misfire at least one cylinder, three way cat damage

551 Misfire cylinder 1, three way cat damage

552 Misfire cylinder 2, three way cat damage

553 Misfire cylinder 3, three way cat damage

554 Misfire cylinder 4, three way cat damage

555 Misfire cylinder 5, three way cat damage

A3 — ABS

111 No DTC set

121 Left front wheel sensor, faulty signal 122 Right front wheel sensor, faulty signal 123 Left rear wheel sensor, faulty signal 124 Right rear wheel sensor, faulty signal 40 km/h

322 Right front wheel sensor, irregular >40 km/h

323 Left rear wheel sensor, irregular >40 km/h

324 Right rear wheel sensor, irregular >40 km/h

411 Left front wheel inlet valve, open/short

412 Left front wheel return valve, open/short

413 Right front wheel inlet valve, open/short

414 Right front wheel return valve, open/short

415 Rear valve open/short

421 Rear wheel inlet valve circuit, open/short

422 Rear wheel return valve circuit, open/short

423 Traction control system valve, open/short

424 Pressure switch for TRACS, faulty or short circuit

441 Control module faulty

442 Pump pressure low

443 Pump motor, electrical or mechanical fault

444 No power supply to valves in hydraulic unit

A6 — Ignition

111 No DTC set

112	Control Module fault
123	Engine Coolant Temperature Sensor (ECT) from Control module missing or faulty
131	Engine speed (RPM) sensor signal missing
142	Control Module Fault
143	Knock sensor (KS) missing or faulty
144	Ignition control module load signal missing
154	EGR system flow too high in system
214	Engine speed (RPM) sensor signal missing sporadically
224	Engine Coolant Temperature sensor (ECT) signal missing or faulty
234	Throttle Position (TPS) signal missing at idle
241	EGR system flow too low in system
243	Throttle Position sensor (TPS) signal missing at idle
311	Vehicle speed signal missing or faulty
314	Camshaft Position sensor (CMP) signal missing or faulty
324	Camshaft Position sensor (CMP) signal missing sporadically

411 Throttle position sensor (TPS) signal from fuel injection system missing or faulty

413 EGR temperature sensor signal faulty

432 Control module box temperature too high level 1

433 Knock sensor (KS) signal missing or faulty

513 Control module box temperature too high, level 2

A7 — Combined Instrument
(Trip Computer)

112 Fuel gauge short circuit

113 Fuel gauge open circuit

121 Temp. sensor interval too short

122 Temp. sensor interval too long

123 Digital output 48 pulse short circuit to supply

131 Digital output 12 pulse short circuit to supply

132 No RPM sensor signal

133 Tank signal to trip computer short to supply

B1 — Electronic climate
control

111	No fault
121	Outside temperature sensor shorted to ground
122	Outside temperature sensor open circuit or shorted to 12 volts
123	Driver's side interior temperature sensor shorted to ground
124	Driver's side interior temperature sensor open circuit or shorted to 12 volts
125	Passenger's side interior temperature sensor shorted to ground(earth)
126	Passenger's side interior temperature sensor open circuit or shorted to 12 volts
131	Driver's side air duct temperature sensor shorted to ground(earth)
132	Driver's side air duct temperature sensor open circuit or shorted to 12 volts
133	Passenger's side air duct temperature sensor shorted to ground(earth)
134	Passenger's side air duct temperature sensor open circuit or shorted to 12 volts
135	No signal from engine coolant temperature sensor
141	Faulty signal from driver's side temperature selector switch
143	Faulty signal from passenger's side temperature selector switch
145	Faulty signal from function selector switch

151	Signal from fan speed sensor missing or too high
152	Signal from fan speed sensor shorted to earth
211	Driver's side damper motor position sensor open circuit or shorted to 12 volts
212	Driver's side damper motor position sensor shorted to earth
221	Passenger's side damper motor position sensor open circuit or shorted to 12 volts
222	Passenger's side damper motor position sensor shorted to earth
231	Ventilation damper motor position sensor open circuit or shorted to 12 volts
232	Ventilation damper motor position sensor shorted to earth
233	Floor/defrost damper motor position sensor open circuit or shorted to 12 volts
234	Floor/defrost damper motor position sensor shorted to earth
235	Recirculation damper motor position sensor open circuit or shorted to 12 volts
236	Recirculation damper motor position sensor shorted to earth
311	Driver's side damper motor shorted to earth or shorted to 12 volts
312	Passenger's side damper motor shorted to earth or shorted to 12 volts
313	Ventilation damper motor shorted to earth or shorted to 12 volts

314	Floor/defrost damper motor shorted to earth or shorted to 12 volts
315	Recirculation damper motor shorted to earth or shorted to 12 volts
321	Driver's side damper motor active too long
322	Passenger's side damper motor active too long
323	Ventilation damper motor active too long
324	Floor/defrost damper motor active too long
325	Recirculation damper motor active too long
411	Blower fan seized or drawing excessive current
412	Driver's side interior temperature sensor inlet fan shorted to earth
413	No control voltage at driver's side interior temperature sensor inlet fan
414	Driver's side interior temperature sensor inlet fan seized
415	Passenger's side interior temperature sensor inlet fan shorted to earth
416	No control voltage at passenger's side interior temperature sensor inlet fan
417	Passenger's side interior temperature inlet fan seized
418	No control signal to blower fan power stage

419 Faulty diagnostic signal from blower fan power stage

420 ECU fault in program memory

511 Damper motor limit position self-adjustment not carried out

B2 — Cruise Control

111 No faults detected

112 Abnormal speed signal

122 Speed has not exceeded 22mph or no speed signal

211 Control module malfunction

212 Malfunction in the circuit to the vacuum pump or regulator

B5 — SRS

111 No fault detected

112 Sensor module fault

127 SRS lamp open/short circuit

211 Drivers airbag short circuit

212 Drivers airbag open circuit

213	Drivers airbag short circuit to ground
214	Drivers airbag short circuit to supply
221	Passenger airbag short circuit
222	Passenger airbag open circuit
223	Passenger airbag short circuit to ground
224	Passenger airbag short circuit to supply
231	Left belt tensioner short circuit
232	Left belt tensioner open circuit
233	Left belt tensioner short circuit to ground
234	Left belt tensioner short circuit to supply
241	Right belt tensioner short circuit
242	Right belt tensioner open circuit
243	Right belt tensioner short circuit to ground
244	Right belt tensioner short circuit to supply