



ANTONIO ECU ERROR CODE LIST (rev 1.0 del 12/03/2012)

CODE ERROR	COMPONENT	DIAGNOSIS	POSSIBLE CAUSES	SOLUTIONS
P1000	INJECTOR 1	SHORT-CIRCUIT AT GROUND	DURING GAS FUNCTIONING THE INJECTOR POSITIVE COMES IN CONTACT WITH A GROUND	DISCONNECT CONNECTOR FROM ECU AND FROM INJECTOR AND CHECK INJECTOR POSITIVE WIRE INSULATION TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION.
P1001	INJECTOR 2	SHORT-CIRCUIT AT GROUND		
P1002	INJECTOR 3	SHORT-CIRCUIT AT GROUND		
P1003	INJECTOR 4	SHORT-CIRCUIT AT GROUND		
P1004	INJECTOR 5	SHORT-CIRCUIT AT GROUND		
P1005	INJECTOR 6	SHORT-CIRCUIT AT GROUND		
P1006	INJECTOR 7	SHORT-CIRCUIT AT GROUND		
P1007	INJECTOR 8	SHORT-CIRCUIT AT GROUND		
P1010	INJECTOR 1	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING THE INJECTOR NEGATIVE COMES IN CONTACT WITH A +12V B) INJECTOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND FROM INJECTOR AND CHECK INJECTOR NEGATIVE WIRE INSULATION TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION B) REPLACE INJECTOR
P1011	INJECTOR 2	SHORT-CIRCUIT AT Vcc		
P1012	INJECTOR 3	SHORT-CIRCUIT AT Vcc		
P1013	INJECTOR 4	SHORT-CIRCUIT AT Vcc		
P1014	INJECTOR 5	SHORT-CIRCUIT AT Vcc		
P1015	INJECTOR 6	SHORT-CIRCUIT AT Vcc		
P1016	INJECTOR 7	SHORT-CIRCUIT AT Vcc		
P1017	INJECTOR 8	SHORT-CIRCUIT AT Vcc		
P1020	INJECTOR 1	DISCONNECTED	A) INJECTOR NOT CONNECTED B) INJECTOR IS NOT WORKING C) WIRING INTERRUPTED D) INJECTOR PLUG IS BENT	A) CONNECT THE INJECTOR PROPERLY B) REPLACE INJECTOR C) RESTORE WIRING D) RESTORE PLUG POSITION
P1021	INJECTOR 2	DISCONNECTED		
P1022	INJECTOR 3	DISCONNECTED		
P1023	INJECTOR 4	DISCONNECTED		
P1024	INJECTOR 5	DISCONNECTED		
P1025	INJECTOR 6	DISCONNECTED		
P1026	INJECTOR 7	DISCONNECTED		
P1027	INJECTOR 8	DISCONNECTED		
P1030	INJECTOR 1	GENERIC ERROR	ECU IS DETECTING AN ERROR ON INJECTOR BUT CANNOT IDENTIFY THE CAUSE	
P1031	INJECTOR 2	GENERIC ERROR		
P1032	INJECTOR 3	GENERIC ERROR		
P1033	INJECTOR 4	GENERIC ERROR		
P1034	INJECTOR 5	GENERIC ERROR		
P1035	INJECTOR 6	GENERIC ERROR		
P1036	INJECTOR 7	GENERIC ERROR		
P1037	INJECTOR 8	GENERIC ERROR		



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P1080	EXTERNAL RELAY	SHORT-CIRCUIT AT GROUND	A) DURING GAS FUNCTIONING RELAY POSITIVE COMES IN CONTACT WITH A GROUND B) RELAY IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK RELAY POSITIVE WIRE INSULATION TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION. B) REPLACE RELAY
P1081	EXTERNAL RELAY	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING RELAY NEGATIVE COMES IN CONTACT WITH +12V B) RELAY IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK RELAY NEGATIVE WIRE INSULATION TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION. B) REPLACE RELAY
P1082	EXTERNAL RELAY	DISCONNECTED	A) RELAY DISCONNECTED B) RELAY IS NOT WORKING C) WIRING INTERRUPTED	A) CONNECT RELAY PROPERLY B) REPLACE RELAY C) RESTORE WIRING
P1083	EXTERNAL RELAY	GENERIC ERROR	ECU IS DETECTING AN ERROR ON RELAY BUT CANNOT IDENTIFY THE CAUSE	
P1090	REDUCER ELECTROVALVE	SHORT-CIRCUIT AT GROUND	DURING GAS FUNCTIONING THE REDUCER ELECTROVALVE POSITIVE COMES IN CONTACT WITH A GROUND	DISCONNECT CONNECTOR FROM ECU AND CHECK REDUCER ELECTROVALVE POSITIVE WIRE INSULATION TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION.
P1091	REDUCER ELECTROVALVE	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING REDUCER ELECTROVALE NEGATIVE COMES IN CONTACT WITH +12V B) ELECTROVALVE IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK REDUCER ELECTROVALVE NEGATIVE WIRE INSULATION TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION. B) REPLACE ELECTROVALVE
P1092	REDUCER ELECTROVALVE	DISCONNECTED	A) ELECTROVALVE DISCONNECTED B) ELECTROVALVE IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT ELECTROVALVE PROPERLY B) REPLACE ELECTROVALVE C) RESTORE WIRING



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P1093	REDUCER ELECTROVALVE	GENERIC ERROR	ECU IS DETECTING AN ERROR ON REDUCER ELECTROVALVE BUT CANNOT IDENTIFY THE CAUSE	
P10A0	TANK ELECTROVALVE	SHORT-CIRCUIT AT GROUND	DURING GAS FUNCTIONING THE TANK ELECTROVALVE POSITIVE COMES IN CONTACT WITH A GROUND	DISCONNECT CONNECTOR FROM ECU AND CHECK TANK ELECTROVALVE POSITIVE WIRE INSULATION TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION.
P10A1	TANK ELECTROVALVE	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING THE TANK ELECTROVALVE NEGATIVE COMES IN CONTACT WITH A +12V B) ELECTROVALVE IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK TANK ELECTROVALVE NEGATIVE WIRE INSULATION TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION B) REPLACE ELECTROVALVE
P10A2	TANK ELECTROVALVE	DISCONNECTED	A) ELECTROVALVE DISCONNECTED B) ELECTROVALVE IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT ELECTROVALVE PROPERLY B) REPLACE ELECTROVALVE C) RESTORE WIRING
P10A3	TANK ELECTROVALVE	GENERIC ERROR	ECU IS DETECTING AN ERROR ON TANK ELECTROVALVE BUT CANNOT IDENTIFY THE CAUSE	
P10B0	YELLOW-RED WIRE SUPPLY +12V OPTIONAL	SHORT-CIRCUIT AT GROUND	DURING GAS FUNCTIONING THE SHEATH G12 POSITIVE COMES IN CONTACT WITH A GROUND	DISCONNECT CONNECTOR FROM ECU AND CHECK POSITIVE WIRE INSULATION TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION.
P10B1	YELLOW-RED WIRE SUPPLY +12V OPTIONAL	SHORT-CIRCUIT AT Vcc	DURING GAS FUNCTIONING THE SHEATH G12 NEGATIVE COMES IN CONTACT WITH A +12V BATTERY	DISCONNECT CONNECTOR FROM ECU AND CHECK NEGATIVE WIRE INSULATION TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION



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P10B2	YELLOW-RED WIRE SUPPLY +12V OPTIONAL	DISCONNECTED	A) COMPONENT DISCONNECTED B) COMPONENT IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT COMPONENT PROPERLY B) REPLACE COMPONENT C) RESTORE WIRING
P10B3	YELLOW-RED WIRE SUPPLY +12V OPTIONAL	GENERIC ERROR	ECU IS DETECTING AN ERROR ON THIS CONNECTION BUT CANNOT IDENTIFY THE CAUSE	
P10C0	CHANGEOVER SWITCH AND MAP SENSOR WIRE SUPPLY+5V	SHORT-CIRCUIT AT GROUND	DURING GAS FUNCTIONING EITHER THE SHEATH G4 POSITIVE OF MAP SENSOR OR THE SHEATH G6 POSITIVE OF SWITCH COMES IN CONTACT WITH A GROUND	DISCONNECT CONNECTOR FROM ECU AND CHECK POSITIVE WIRE INSULATION OF BOTH SHEATHS TOWARDS THE GROUND. ONCE VERIFIED THAT WIRES DON'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION.
P10C1	CHANGEOVER SWITCH AND MAP SENSOR WIRE SUPPLY+5V	SHORT-CIRCUIT AT Vcc	DURING GAS FUNCTIONING EITHER THE SHEATH G4 NEGATIVE OF MAP SENSOR OR THE SHEATH G6 NEGATIVE OF SWITCH COMES IN CONTACT WITH A +12V	DISCONNECT CONNECTOR FROM ECU AND CHECK NEGATIVE WIRES INSULATION OF BOTH SHEATHS TOWARDS THE +12V. ONCE VERIFIED THAT WIRES DON'T COME IN CONTACT WITH +12V, RESTORE CONNECTION
P10C2	CHANGEOVER SWITCH AND MAP SENSOR WIRE SUPPLY+5V	DISCONNECTED	SWITCH CONNECTOR OR MAP SENSOR CONNECTOR ARE DISCONNECTED SWITCH OR MAP ARE NOT WORKING WIRES INTERRUPTED	CONNECT SWITCH OR MAP SENSOR PROPERLY REPLACE SWTCH OR MAP SENSOR RESTORE WIRING
P10C3	CHANGEOVER SWITCH AND MAP SENSOR WIRE SUPPLY+5V	GENERIC ERROR	ECU IS DETECTING AN ERROR ON SWITCH OR MAP SENSOR CONNECTION BUT CANNOT IDENTIFY THE CAUSE	
P1100	GAS PRESSURE GAUGE	SHORT-CIRCUIT AT GROUND	A) DURING GAS FUNCTIONING THE POSITIVE OF MAP GAS PRESSURE GAUGE COMES IN CONTACT WITH A GROUND B) MAP GAS PRESSURE GAUGE IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK POSITIVE WIRE INSULATION OF SHEATH G4 TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION B) REPLACE MAP SENSOR



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P1101	GAS PRESSURE GAUGE	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING THE NEGATIVE OF MAP GAS PRESSURE GAUGE COMES IN CONTACT WITH A +12V B) MAP GAS PRESSURE GAUGE IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK NEGATIVE WIRE INSULATION OF SHEATH G4 TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION. B) REPLACE MAP SENSOR
P1102	GAS PRESSURE GAUGE	DISCONNECTED	A) MAP SENSOR DISCONNECTED B) MAP GAS PRESSURE GAUGE IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT MAP SENSOR PROPERLY B) REPLACE MAP SENSOR C) RESTORE WIRING
P1103	GAS PRESSURE GAUGE	GENERIC ERROR	ECU IS DETECTING AN ERROR ON MAP SENSOR OF GAS PRESSURE GAUGE BUT CANNOT IDENTIFY THE CAUSE	
P1110	VACUUM PRESSURE SENSOR	SHORT-CIRCUIT AT GROUND	A) DURING GAS FUNCTIONING THE POSITIVE OF MAP VACUUM PRESSURE SENSOR COMES IN CONTACT WITH A GROUND B) MAP VACUUM PRESSURE SENSOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK POSITIVE WIRE INSULATION OF SHEATH G4 TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION B) REPLACE MAP SENSOR
P1111	VACUUM PRESSURE SENSOR	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING THE NEGATIVE OF MAP VACUUM PRESSURE SENSOR COMES IN CONTACT WITH A +12V B) MAP VACUUM PRESSURE SENSOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK NEGATIVE WIRE INSULATION OF SHEATH G4 TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION B) REPLACE MAP SENSOR
P1112	VACUUM PRESSURE SENSOR	DISCONNECTED	A) MAP SENSOR CONNECTOR DISCONNECTED B) MAP VACUUM PRESSURE SENSOR IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT MAP SENSOR PROPERLY B) REPLACE MAP SENSOR C) RESTORE WIRING
P1113	VACUUM PRESSURE SENSOR	GENERIC ERROR	ECU IS DETECTING AN ERROR ON VACUUM PRESSURE SENSOR OF MAP SENSOR BUT CANNOT IDENTIFY THE CAUSE	



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P1120	REDUCER TEMPERATURE SENSOR	SHORT-CIRCUIT AT GROUND	A) DURING GAS FUNCTIONING THE POSITIVE OF REDUCER TEMPERATURE SENSOR COMES IN CONTACT WITH A GROUND B) REDUCER TEMPERATURE SENSOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK POSITIVE WIRE INSULATION OF SHEATH G3 TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION B) REPLACE REDUCER TEMPERATURE SENSOR
P1121	REDUCER TEMPERATURE SENSOR	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING THE NEGATIVE OF REDUCER TEMPERATURE SENSOR COMES IN CONTACT WITH A +12V B) REDUCER TEMPERATURE SENSOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK NEGATIVE WIRE INSULATION OF REDUCER TEMPERATURE SENSOR CONNECTOR OF SHEATH G3 TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION B) REPLACE REDUCER TEMPERATURE SENSOR
P1122	REDUCER TEMPERATURE SENSOR	DISCONNECTED	A) REDUCER TEMPERATURE SENSOR DISCONNECTED B) REDUCER TEMPERATURE SENSOR IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT REDUCER TEMPERATURE SENSOR PROPERLY B) REPLACE REDUCER TEMPERATURE SENSOR C) RESTORE WIRING
P1123	REDUCER TEMPERATURE SENSOR	GENERIC ERROR	ECU IS DETECTING AN ERROR ON REDUCER TEMPERATURE SENSOR BUT CANNOT IDENTIFY THE CAUSE	
P1130	GAS TEMPERATURE SENSOR	SHORT-CIRCUIT AT GROUND	A) DURING GAS FUNCTIONING THE POSITIVE OF GAS TEMPERATURE SENSOR COMES IN CONTACT WITH A GROUND B) GAS TEMPERATURE SENSOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK POSITIVE WIRE INSULATION OF GAS TEMPERATURE SENSOR CONNECTOR OF SHEATH G1 TOWARDS THE GROUND. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH A GROUND, RESTORE CONNECTION B) REPLACE GAS TEMPERATURE SENSOR



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P1131	GAS TEMPERATURE SENSOR	SHORT-CIRCUIT AT Vcc	A) DURING GAS FUNCTIONING THE NEGATIVE OF GAS TEMPERATURE SENSOR COMES IN CONTACT WITH A +12V B) GAS TEMPERATURE SENSOR IS NOT WORKING	A) DISCONNECT CONNECTOR FROM ECU AND CHECK NEGATIVE WIRE INSULATION OF GAS TEMPERATURE SENSOR CONNECTOR OF SHEATH G1 TOWARDS THE +12V. ONCE VERIFIED THAT WIRE DOESN'T COME IN CONTACT WITH +12V, RESTORE CONNECTION B) REPLACE GAS TEMPERATURE SENSOR
P1132	GAS TEMPERATURE SENSOR	DISCONNECTED	A) GAS TEMPERATURE SENSOR DISCONNECTED B) GAS TEMPERATURE SENSOR IS NOT WORKING C) WIRES INTERRUPTED	A) CONNECT GAS TEMPERATURE SENSOR PROPERLY B) REPLACE GAS TEMPERATURE SENSOR C) RESTORE WIRING
P1133	GAS TEMPERATURE SENSOR	GENERIC ERROR	ECU IS DETECTING AN ERROR ON GAS TEMPERATURE SENSOR BUT CANNOT IDENTIFY THE CAUSE	
P11F0	SWITCH	NOT DETECTED	A) ECU CANNOT DETECT ANY CONNECTION TO THE SWITCH B) SWITCH IS NOT WORKING C) WIRES INTERRUPTED	A) MAKE SURE THAT SWITCH IS CONNECTED PROPERLY TO THE CONNECTOR OF SHEATH G6 B) REPLACE SWITCH C) RESTORE WIRING