

Vehicle information

GM 2012 Cadillac

VIN: 1GYS4EEJXCR196681

Diagnostics time: 2023/01/11 11:25

Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Autostart entry reasons >

| NO. | Name | Value | Unit |
|-----|---------------------------------------|-------|------|
| 1 | Hood position | Yes | |
| 2 | ECM request | No | |
| 3 | IMS range | No | |
| 4 | Hybrid battery SOC | Yes | |
| 5 | Minimum hybrid battery module voltage | Yes | |
| 6 | Hybrid battery pack power | Yes | |
| 7 | Hybrid battery pack voltage | Yes | |
| 8 | Engine coolant temperature | Yes | |
| 9 | Motor temperature | No | |
| 10 | Inverter temperature | No | |
| 11 | Auxiliary transmission pump | Yes | |
| 12 | Ignition crank | No | |
| 13 | Autostart/stop override | No | |
| 14 | ICE run time | No | |
| 15 | Driver axle torque request | Yes | |
| 16 | Battery pack temperature | Yes | |
| 17 | System voltage | No | |
| 18 | Operating conditions | Yes | |
| 19 | Vehicle speed | No | |
| 20 | Invalid signal | Yes | |
| 21 | Reverse inhibit command | Yes | |
| 22 | Remote start request | No | |
| 23 | 4WD low | Yes | |
| 24 | Reduced engine power | No | |

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Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Autostop inhibit reasons >

| NO. | Name | Value | Unit |
|-----|---------------------------------------|-------|------|
| 1 | Run/crank mode | No | |
| 2 | ECM request | No | |
| 3 | Hood position | Yes | |
| 4 | IMS range | No | |
| 5 | Hybrid battery SOC | No | |
| 6 | Minimum hybrid battery module voltage | Yes | |
| 7 | Hybrid battery pack power | Yes | |
| 8 | Hybrid battery pack voltage | Yes | |
| 9 | Engine coolant temperature | Yes | |
| 10 | Motor temperature | No | |
| 11 | Inverter temperature | No | |
| 12 | Auxiliary transmission pump | Yes | |
| 13 | Ignition crank | No | |
| 14 | Autostart/stop override | No | |
| 15 | ICE run time | Yes | |
| 16 | Driver axle torque request | Yes | |
| 17 | Battery pack temperature | Yes | |
| 18 | System voltage | No | |
| 19 | Operating conditions | Yes | |
| 20 | Vehicle speed | No | |
| 21 | Invalid signal | No | |
| 22 | Reverse inhibit command | No | |
| 23 | Remote start request | No | |
| 24 | 4WD low | No | |
| 25 | Reduced engine power | No | |

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Diagnostics time: 2023/01/11 11:25

Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Hybrid powertrain control module >

| NO. | Name | Value | MIN | MAX | Unit |
|-----|--|---------------|--------|--------|------|
| 1 | Engine coolant temperature | 23.00 | -40 | 248 | °F |
| 2 | Engine speed | 0 | 0 | 7000 | rpm |
| 3 | Vehicle speed | 0.00 | 0 | 158.45 | mph |
| 4 | IAT | 33.80 | -40 | 248 | °F |
| 5 | Control module voltage signal | 11.80 | 0 | 66 | V |
| 6 | Brake Pedal Position (BPP) signal | Released | | | |
| 7 | Engine run time | 00:00:00 | | | |
| 8 | Transmission OSS | 0 | 0 | 6000 | rpm |
| 9 | IMS range | Park | | | |
| 10 | APM heat plate temperature | 24.80 | -40 | 419 | °F |
| 11 | HPCM 300V circuit | 11.00 | 0 | 656 | V |
| 12 | APM 300V circuit current | 0.00 | -32767 | 32767 | Amps |
| 13 | 300V AC isolation status | Indeterminate | | | |
| 14 | HPCM HVIC status | Pass | | | |
| 15 | 300V DC isolation status | Pass | | | |
| 16 | BECM HVIC status | Pass | | | |
| 17 | BECM maximum voltage | 15.60 | 0 | 26 | V |
| 18 | BECM minimum voltage | 15.60 | 0 | 26 | V |
| 19 | contactor system request circuit command | 69 | 0 | 100 | % |
| 20 | 12V circuit current | 0 | 0 | 255 | Amps |
| 21 | 12V circuit voltage | 11.60 | 0 | 255 | V |
| 22 | APM set point | 21.2 | 0 | 100 | % |
| 23 | 12V enable command | Off | | | |
| 24 | 300V charge command | Off | | | |
| 25 | Hybrid battery SOC | 59 | 0 | 100 | % |
| 26 | Hybrid battery current | 0.00 | -1638 | 1638 | Amps |
| 27 | Hybrid battery maximum cell temperature | 26.60 | -40 | 419 | °F |
| 28 | Hybrid battery minimum cell temperature | 24.80 | -40 | 419 | °F |
| 29 | ICE status | Off | | | |
| 30 | ICE cranking speed command | 0.00 | 0 | 2040 | rpm |

| | | | | | |
|----|--|--------------|---------|--------|--------|
| 31 | ICE cranking status | Inactive | | | |
| 32 | Calculated throttle position | 0 | 0 | 100 | % |
| 33 | Motor 1 temperature | 23.00 | -40 | 419 | °F |
| 34 | Motor 2 temperature | 23.00 | -40 | 419 | °F |
| 35 | Motor 1 torque commanded | 0.000 | -1512 | 1512 | lbf ft |
| 36 | Motor 2 torque commanded | 0.000 | -1512 | 1512 | lbf ft |
| 37 | Motor 1 torque actual | 0.000 | -1512 | 1512 | lbf ft |
| 38 | Motor 2 torque actual | 0.000 | -1512 | 1512 | lbf ft |
| 39 | Direction IMS | No | | | |
| 40 | Direction IMS D1 | High | | | |
| 41 | Direction IMS D2 | Low | | | |
| 42 | Direction IMS R1 | High | | | |
| 43 | Direction IMS R2 | Low | | | |
| 44 | Direction IMS S | Low | | | |
| 45 | Hybrid transmission mode actual | Park/Neutral | | | |
| 46 | Motor 1 speed actual | 0.0 | -327678 | 327678 | rpm |
| 47 | Motor 2 speed actual | 0.0 | -32768 | 32768 | rpm |
| 48 | Auxiliary transmission fluid pump commanded | 0.0 | 0 | 100 | % |
| 49 | Auxiliary transmission fluid pump actual | 0.0 | 0 | 100 | % |
| 50 | Auxiliary transmission fluid pump fault status 1 | Low voltage | | | |
| 51 | Auxiliary transmission fluid pump fault status 2 | No fault | | | |

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Diagnostics time: 2023/01/11 11:25

Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Hybrid transmission >

| NO. | Name | Value | MIN | MAX | Unit |
|-----|--|--------------|-----------|---------|--------|
| 1 | Engine speed | 0 | 0 | 7000 | rpm |
| 2 | Vehicle speed | 0.00 | 0 | 158.45 | mph |
| 3 | IMS range | Park | | | |
| 4 | Regenerative brake torque request | 0.000 | 0 | 6018.51 | lbf ft |
| 5 | Engine torque actual | -41.303 | -625.45 | 879.17 | lbf ft |
| 6 | Engine torque command | 0.000 | -625.45 | 879.17 | lbf ft |
| 7 | Driver axle torque request | -4.425 | -16620.22 | 31715.9 | lbf ft |
| 8 | Axle torque command | 0.000 | -16620.22 | 31715.9 | lbf ft |
| 9 | Axle torque actual | 0.000 | -16620.22 | 31715.9 | lbf ft |
| 10 | Regenerative brake torque predicted | | | | lbf ft |
| 11 | Total brake torque | | | | lbf ft |
| 12 | Axle torque immediate | | | | lbf ft |
| 13 | ICE status | | | | |
| 14 | ICE cranking speed command | 0.00 | 0 | 2040 | rpm |
| 15 | ICE cranking status | Inactive | | | |
| 16 | Calculated throttle position | 0 | 0 | 100 | % |
| 17 | Motor 1 temperature | 23.00 | -40 | 419 | °F |
| 18 | Motor 2 temperature | 23.00 | -40 | 419 | °F |
| 19 | Motor 1 torque commanded | 0.000 | -1512 | 1512 | lbf ft |
| 20 | Motor 2 torque commanded | 0.000 | -1512 | 1512 | lbf ft |
| 21 | Motor 1 torque actual | 0.000 | -1512 | 1512 | lbf ft |
| 22 | Motor 2 torque actual | 0.000 | -1512 | 1512 | lbf ft |
| 23 | Hybrid transmission mode actual | Park/Neutral | | | |
| 24 | Motor 1 speed actual | 0.0 | -327678 | 327678 | rpm |
| 25 | Motor 2 speed actual | 0.0 | -32768 | 32768 | rpm |
| 26 | Auxiliary transmission fluid pump actual | 0.0 | 0 | 100 | % |

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Diagnostics time: 2023/01/11 11:25

Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Hybrid >

| NO. | Name | Value | MIN | MAX | Unit |
|-----|--|----------|-----------|---------|--------|
| 1 | Hood position | Open | | | |
| 2 | DMCM coolant temperature | 26.60 | -40 | 419 | °F |
| 3 | DMCM clnt. pump 1 command | On | | | |
| 4 | DMCM clnt. pump 1 short to gnd test status | Not run | | | |
| 5 | DMCM clnt. pump 1 open test status | Not run | | | |
| 6 | DMCM clnt. pump 1 short to volt test status | OK | | | |
| 7 | Driver axle torque request | 21.389 | -16620.22 | 31715.9 | lbf ft |
| 8 | Axle torque command | 0.000 | -16620.22 | 31715.9 | lbf ft |
| 9 | Axle torque actual | 0.000 | -16620.22 | 31715.9 | lbf ft |
| 10 | Engine torque command | 59.005 | -625.45 | 879.17 | lbf ft |
| 11 | Engine torque actual | -41.303 | -625.45 | 879.17 | lbf ft |
| 12 | Engine speed | 0 | 0 | 7000 | rpm |
| 13 | Engine Coolant Temperature (ECT) sensor | 23.00 | -40 | 248 | °F |
| 14 | IAT sensor | 35.60 | -40 | 248 | °F |
| 15 | Ambient air temperature | 32.00 | -49 | 419 | °F |
| 16 | Cold startup | No | | | |
| 17 | Mass air flow sensor | 0.00 | 0 | 0.66 | lb/s |
| 18 | Engine load | 0 | 0 | 100 | % |
| 19 | Accelerator Pedal Position (APP) indicated angle | 0 | 0 | 100 | % |
| 20 | Throttle position indicated angle | 25 | 0 | 100 | % |
| 21 | MAP sensor | 11.17 | 0 | 15.95 | psi |
| 22 | Barometric pressure | 11.17 | 8.7 | 15.95 | psi |
| 23 | Command air-fuel equivalence ratio | 0.1 | 10 | 20 | :1 |
| 24 | Loop status | Open | | | |
| 25 | HO2S bank 1 sensor 1 | 450 | 0 | 1200 | mV |
| 26 | HO2S bank 2 sensor 1 | 445 | 0 | 1200 | mV |
| 27 | Power enrichment | Inactive | | | |
| 28 | Deceleration fuel cutoff | Inactive | | | |
| 29 | Spark | 0 | -20 | 60 | ° |
| 30 | Ignition 1 signal | 11.63 | 9 | 18 | V |

| | | | | | |
|----|-----------------------------------|----------|---|-------|-----|
| 31 | Ignition accessory signal | On | | | |
| 32 | EC ignition relay feedback signal | 11.60 | 0 | 20 | V |
| 33 | MIL command | On | | | |
| 34 | MIL requested by DTC | No | | | |
| 35 | Brake Pedal Position (BPP) signal | Released | | | |
| 36 | Vehicle speed sensor | 0.00 | 0 | 93.83 | mph |
| 37 | Engine run time | 00:00:00 | | | |

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VIN: 1GYS4EEJXCR196681

Diagnostics time: 2023/01/11 11:39

Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Charging information >

| NO. | Name | Value | MIN | MAX | Unit |
|-----|---------------------------------|----------|-------|------|------|
| 1 | Battery current | -22.6 | -3277 | 3277 | Amps |
| 2 | Battery sulfation mode | Inactive | | | |
| 3 | Battery voltage | 11.60 | 9 | 18 | V |
| 4 | Battery low at start | No | | | |
| 5 | Battery open circuit tested | No | | | |
| 6 | Battery open circuit voltage | 12.470 | 0 | 25 | V |
| 7 | Battery voltage high resistance | 11.819 | 0 | 25 | V |
| 8 | Idle boost level 2 counter | 0 | 0 | 255 | |
| 9 | Idle boost level 3 counter | 0 | 0 | 255 | |
| 10 | Desired battery voltage | 13.800 | 0 | 25 | V |
| 11 | Estimated battery temperature | 32.00 | -40 | 419 | °F |
| 12 | Fuel economy mode | Inactive | | | |
| 13 | Parasitic current | 0.0 | -3276 | 3276 | Amps |
| 14 | Previous state of charge | 70 | 0 | 100 | % |
| 15 | Regulator setpoint | 100 | 0 | 100 | % |
| 16 | Start up state of charge | 70 | 0 | 100 | % |
| 17 | State of charge | 70 | 0 | 100 | % |
| 18 | State of charge low | No | | | |

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Path: Automatic selection > Without trailer brake > Without (RPO Z95) > Auto scan > Live data > Power mode >

| NO. | Name | Value | MIN | MAX | Unit |
|-----|-----------------------------|--------|-----|-----|------|
| 1 | Accessory/RAP relay command | On | | | |
| 2 | Accessory relay command | On | | | |
| 3 | Current power mode | Run | | | |
| 4 | Ignition off/run/crank | Run | | | |
| 5 | Ignition accessory/run | Active | | | |
| 6 | Ignition run/crank | Active | | | |
| 7 | Key in ignition status | Key in | | | |
| 8 | Off/run/crank signal | 4.39 | 0 | 25 | V |
| 9 | Off/run/crank reference | 5.36 | 0 | 25 | V |
| 10 | Run/crank relay command | On | | | |
| 11 | Run relay command | On | | | |