

YMMS: 2006 Volkswagen Passat 2.0T

Jun 20,  
2022

Engine: 2.0L Eng

VIN:

License:

Odometer:

## ECM,Engine

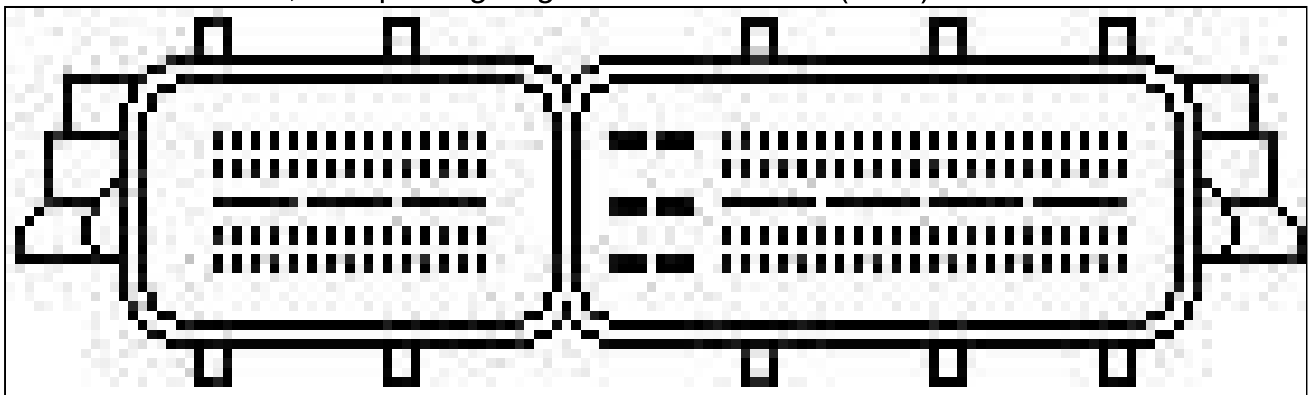
### Module Location

#### ECM Location:

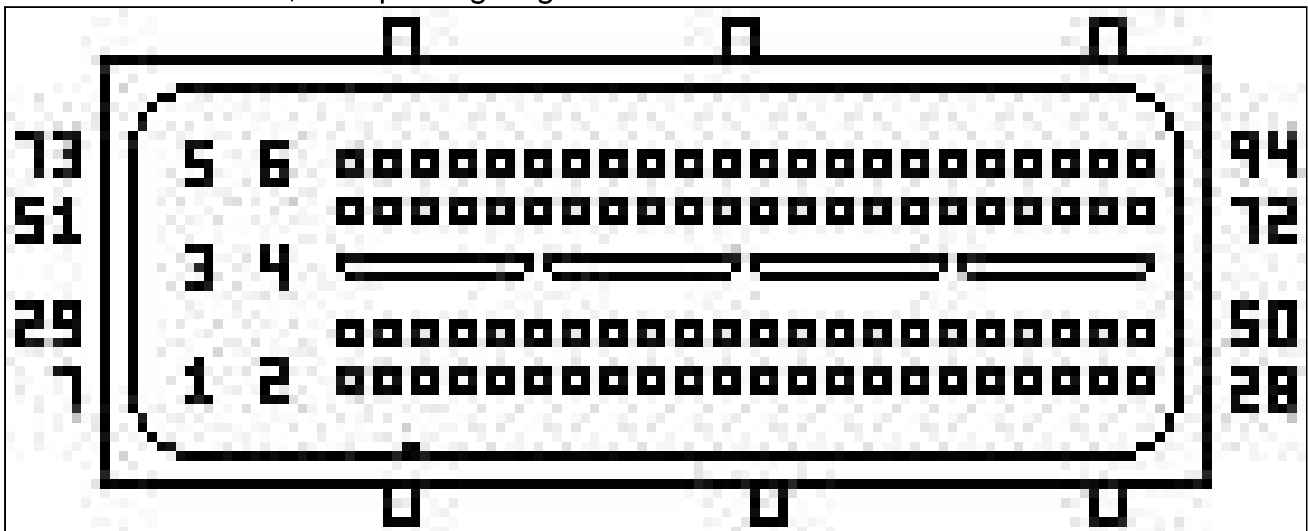
Located in center of plenum. Remove wiper arms, then remove four torx head screws retaining the plastic panel near the side cowling and remove plenum cover.

### Pinouts

View: Harness Side, Backprobing Engine Control Module (J623)



View: Harness Side, Backprobing Engine Control Module Connector

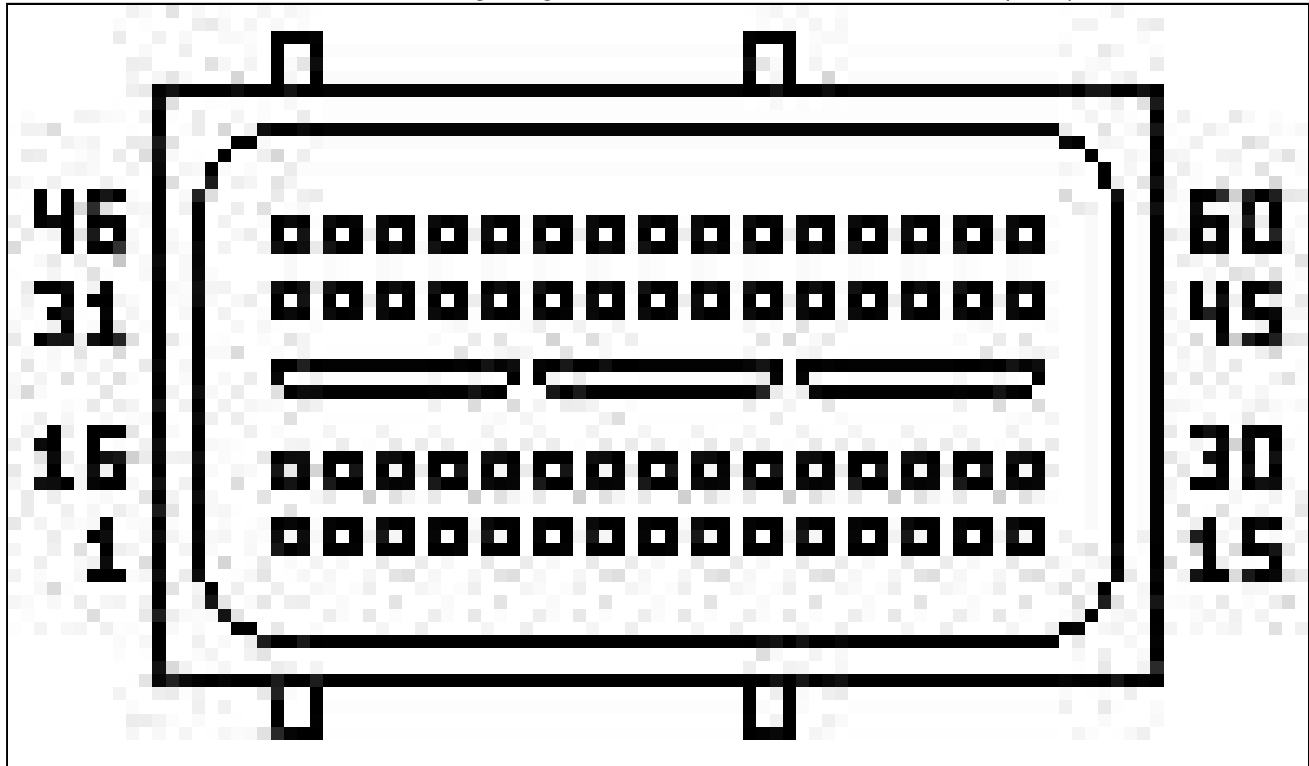


| Pin Assignment                               | Wire Color      |
|--|-----------------|
| 1=Chassis Ground                             | Brown           |
| 2=Chassis Ground                             | Brown           |
| 3=Ignition (+)                               | Red- White      |
| 4=Chassis Ground                             | Brown           |
| 5=Ignition (+)                               | Red- White      |
| 6=Ignition (+)                               | Red- White      |
| 7=Rear Oxygen Sensor (B1-S3) Heater Control  | Brown - White   |
| 8=Leak Detection Pump Control                | White - Yellow  |
| 9-11=Not Used                                | -               |
| 12=Radiator Outlet Temperature Sensor Ground | Yellow          |
| 13-17=Not Used                               | -               |
| 18=Signal to Steering Column Module          | Black - White   |
| 19=Charge Air Pressure Sensor Control        | Violet          |
| 20-21=Not Used                               | -               |
| 22=MAF Signal                                | Gray            |
| 23-24=Not Used                               | -               |
| 25=Ref Signal                                | Black -Red      |
| 26=Not Used                                  | -               |
| 27=Fuel Pump Control Module                  | Yellow - Blue   |
| 28=Coolant Fan Control Module                | Yellow - Violet |
| 29-31=Not Used                               | -               |
| 32=Power Supply Relay Control                | Green - Yellow  |
| 33=Coolant Pump Relay Control                | Red- Gray       |
| 34-37=Not Used                               | -               |
| 38=Charge Air Pressure Sensor                | Gray            |
| 39=Not Used                                  | -               |
| 40=Leak Detection Pump                       | Green - Violet  |
|  |                 |

|   |                |
|---|----------------|
| 41=Clutch Position Sensor                 | Red- Yellow    |
| 42-50=Not Used                            | -              |
| 51=O2 Heater Control                      | Violet - White |
| 52=Not Used                               | -              |
| 53=Reference Signal                       | Black          |
| 54-55=Not Used                            | -              |
| 56=APP Sensor Ref                         | Blue - Gray    |
| 57=APP Sensor Signal                      | White - Blue   |
| 58=APP Sensor Ground                      | Green - Gray   |
| 59=Not Used                               | -              |
| 60=Front Oxygen Sensor Signal             | Blue           |
| 61=Front Oxygen Sensor Trim Current (RT)  | Red or Yellow  |
| 62-64=Not Used                            | -              |
| 65=Starting/Charging System               | Black - Brown  |
| 66=Not Used                               | -              |
| 67=CAN-Low Signal                         | Orange - Brown |
| 68=CAN-High Signal                        | Orange - Black |
| 69=Motronic Engine Control Module Control | Brown - Violet |
| 70-75=Not Used                            | -              |
| 76=Rear O2 Ground                         | Green -Red     |
| 77=Rear O2 Signal                         | Green - White  |
| 78=APP Sensor Ref                         | Violet - Black |
| 79=APP Sensor Signal                      | Black - Blue   |
| 80=APP Sensor Ground                      | Black - Blue   |
| 81=Front Oxygen Sensor Signal (RE+)       | Gray - White   |
| 82=Front Oxygen Sensor Signal             | Gray -Red      |
| 83-85=Not Used                            | -              |
| 86=DLC Signal                             | Gray - White   |
|   |                |

|                |                |
|----------------|----------------|
| 87=Battery (+) | Black - White  |
| 88-91=Not Used | -              |
| 92=Battery (+) | Black - Yellow |
| 93-94=Not Used | -              |

View: Harness Side, Backprobing Engine Control Module Connector (T60)



| Pin Assignment              | Wire Color     |
|-----------------------------|----------------|
| 1=Fuel Injector #2 Control  | Red- White     |
| 2=Fuel Injector #1 Control  | Red- Black     |
| 3=Not Used                  | -              |
| 4=Waste Gate Bypass Valve   | Violet - White |
| 5=EVAP Purge Valve          | Blue - Violet  |
| 6=Not Used                  | -              |
| 7=Low Fuel Pressure Sensor  | Violet - Green |
| 8=Not Used                  | -              |
| 9=Knock Sensor 1 Signal (+) | Red            |
| 10=ECT Signal               | Green          |

|   |                |
|---|----------------|
| 11=Not Used                               | -              |
| 12=Throttle Valve Position Sensor Signal  | Green - Yellow |
| 13=IAT Sensor Signal                      | White          |
| 14=Ground                                 | Brown - Blue   |
| 15=Throttle Actuator Control (+/-)        | Violet         |
| 16=Fuel Injector #4 Control               | Red- Gray      |
| 17=Fuel Injector #3 Control               | Red- Violet    |
| 18=Not Used                               | -              |
| 19=Fuel Pressure Regulator Valve          | Violet - Brown |
| 20=Camshaft Adjustment Valve Control      | Violet - White |
| 21=Turbo Recirculating Valve Control      | Red- White     |
| 22=Intake Manifold Runner Position Sensor | Green          |
| 23=Not Used                               | -              |
| 24=Knock Sensor 1 Signal (-)              | Violet         |
| 25=Fuel Pressure Sensor Signal            | Gray - Blue    |
| 26=Ground                                 | Black - Gray   |
| 27=TPS Signal                             | Blue - Green   |
| 28=TPS Ref Signal                         | Black - Blue   |
| 29=Throttle Angle Sensor Return           | Violet - Brown |
| 30=Throttle Actuator Control (+/-)        | Brown - Violet |
| 31=Not Used                               | -              |
| 32=Fuel Injector #3 Power                 | Brown - Violet |
| 33=Fuel Injector #1 Power                 | Brown - Black  |
| 34=Intake Manifold Runner Motor (+/-)     | Gray - Violet  |
| 35=Not Used                               | -              |
| 36=CKP Signal                             | White          |
| 37=Ref Signal                             | Black - Green  |
| 38=Not Used                               | -              |
|   |                |

|                                       |                |
|---------------------------------------|----------------|
| 39=Knock Sensor 2 Signal (-)          | Brown -RED     |
| 40=Not Used                           | -              |
| 41=Ignition Coil #2 Control           | Blue - Gray    |
| 42=Not Used                           | -              |
| 43=Ignition Coil #3 Control           | Red- Gray      |
| 44=CMP Sensor Signal                  | Green - Violet |
| 45-46=Not Used                        | -              |
| 47=Fuel Injector #2 Power             | Brown - White  |
| 48=Fuel Injector #4 Power             | Brown - Gray   |
| 49=Intake Manifold Runner Motor (+/-) | Brown - Green  |
| 50=Not Used                           | -              |
| 51=CKP Signal                         | Brown          |
| 52=Ground                             | Black          |
| 53=Not Used                           | -              |
| 54=Knock Sensor 2 Signal (+)          | White - Brown  |
| 55=Not Used                           | -              |
| 56=Ignition Coil #4 Control           | Gray - Brown   |
| 57=Not Used                           | -              |
| 58=Ignition Coil #1 Control           | Violet - Gray  |
| 59-60=Not Used                        | -              |