

## Diagnostic List Paccar\_v5.53

**Remark:**

1. ✓ : means that the system has this function
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3. compared with the last version, the new added function is marked in red color.

| Vehicle menu                                 |                |          | Function                                |                  |                   |           |                |                  |
|--|----------------|----------|---|------------------|-------------------|-----------|----------------|------------------|
| Deutsch connectors                           | Models         | ECU type | Read ECU information                    | Read fault codes | Erase fault codes | Live data | Actuation test | Special function |
| 9-Pin Deutsch - TYPE I GENERAL Connector     | Engine         | PMCI     | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine         | PMCI2    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine         | PCI      | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment | EAS-2    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment | EAS-3    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
| 9-Pin Deutsch - TYPE II GREEN Connector      | Engine         | PCI UDS  | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment | EAS-4    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
| SAE J1962 OBDII Connector                    | Engine         | PMCI     | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine         | PMCI2    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine         | PCI      | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine         | PCI UDS  | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment | EAS-2    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment | EAS-3    | ✓                                       | ✓                | ✓                 | ✓         | ✓              | ✓                |
| Aftertreatment                               | EAS-4          | ✓        | ✓                                       | ✓                | ✓                 | ✓         | ✓              |                  |
| <b>Actuation test &amp; Special Function</b> |                |          |   |                  |                   |           |                |                  |
|  | Actuation test | PMCI     | Engine brake MX                         |                  |                   |           |                |                  |
|  | Actuation test | PMCI     | Exhaust brake                           |                  |                   |           |                |                  |
|  | Actuation test | PMCI     | Gas overflow valve                      |                  |                   |           |                |                  |
|  | Actuation test | PMCI     | Fan test                                |                  |                   |           |                |                  |
|  | Actuation test | PMCI     | Engine data logger                      |                  |                   |           |                |                  |
|  | Actuation test | PMCI     | Speed limiting                          |                  |                   |           |                |                  |
|  | Actuation test | PMCI2    | Activate the red engine warning         |                  |                   |           |                |                  |
|  | Actuation test | PMCI2    | Activate the yellow engine warning      |                  |                   |           |                |                  |
|  | Actuation test | PMCI2    | Activate the malfunction indicator lamp |                  |                   |           |                |                  |
|  | Actuation test | PMCI2    | Activate the ether start valve          |                  |                   |           |                |                  |
|  | Actuation test | PMCI2    | Activate the BPV actuator               |                  |                   |           |                |                  |
|  | Actuation test | PCI      | Cut-out the injectors                   |                  |                   |           |                |                  |
|  | Actuation test | PCI      | Check the cylinder compression          |                  |                   |           |                |                  |
|  | Actuation test | PCI      | Activate the MX Engine Brake            |                  |                   |           |                |                  |
|  | Actuation test | PCI      | Activate the red engine warning         |                  |                   |           |                |                  |
|  | Actuation test | PCI      | Activate the yellow engine warning      |                  |                   |           |                |                  |
|  | Actuation test | PCI      | Activate the Malfunction Indicator Lamp |                  |                   |           |                |                  |
|  | Actuation test | EAS-2    | Tank valve heater                       |                  |                   |           |                |                  |
|  | Actuation test | EAS-2    | AdBlue circuit test                     |                  |                   |           |                |                  |
|  | Actuation test | EAS-2    | Air circuit test                        |                  |                   |           |                |                  |

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| Vehicle menu   |  |   | Function  |                  |                   |           |                |                  |  |
|--|--|---|---|------------------|-------------------|-----------|----------------|------------------|--|
| Deutsch connectors   | Models                                       | ECU type                                      | Read ECU information                                | Read fault codes | Erase fault codes | Live data | Actuation test | Special function |  |
| 9-Pin Deutsch - TYPE I GENERAL Connector                               | Engine                                       | PMCI  | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Engine                                       | PMCI2   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Engine                                       | PCI   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Aftertreatment                               | EAS-2   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Aftertreatment                               | EAS-3   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
| 9-Pin Deutsch - TYPE II GREEN Connector                                | Engine                                       | PCI UDS                                       | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Aftertreatment                               | EAS-4   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
| SAE J1962 OBDII Connector  | Engine                                       | PMCI  | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Engine                                       | PMCI2   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Engine                                       | PCI   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Engine                                       | PCI UDS                                       | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Aftertreatment                               | EAS-2   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | Aftertreatment                               | EAS-3   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
| 9-Pin Deutsch - TYPE I GENERAL Connector<br>/SAE J1962 OBDII Connector | Aftertreatment                               | EAS-4   | ✓   | ✓                | ✓                 | ✓         | ✓              | ✓                |  |
|  | <b>Actuation test &amp; Special Function</b> |   |   |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-2   | Autonomous system check test                        |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-2   | Dosing module test                                  |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Regenerate the DPF                                  |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Activate the air shutoff valve                      |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Activate the fuel dosing valve                      |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Activate the DEF pipe heaters                       |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Activate the DEF pump heater                        |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Activate the DEF tank heater valve                  |                  |                   |           |                |                  |  |
|  | Actuation test                               | EAS-3   | Activate the DEF reverting valve                    |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI  | Automated cylinder performance test                 |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI  | Compression test                                    |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI  | Pump unit codes                                     |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI  | Injector codes                                      |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI2   | Initialize the Exhaust Gas Recirculation (EGR)      |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI2   | Initialize the BPV                                  |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI2   | Install and calibrate the VTG turbocharger actuator |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI2   | Change the pump unit codes                          |                  |                   |           |                |                  |  |
|  | Special Function                             | PMCI2   | Change the injector codes                           |                  |                   |           |                |                  |  |
| Special Function   | PMCI2  | Clear the snapshot recorder                   |   |                  |                   |           |                |                  |  |
| Special Function   | PMCI2  | Disable Exhaust Gas Recirculation(EGR) derate |   |                  |                   |           |                |                  |  |

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| Vehicle menu                                 |                  |          | Function   |                  |                   |           |                |                  |
|--|------------------|----------|--|------------------|-------------------|-----------|----------------|------------------|
| Deutsch connectors                           | Models           | ECU type | Read ECU information                                 | Read fault codes | Erase fault codes | Live data | Actuation test | Special function |
| 9-Pin Deutsch - TYPE I GENERAL Connector     | Engine           | PMCI     | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PMCI2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PCI      | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-3    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
| 9-Pin Deutsch - TYPE II GREEN Connector      | Engine           | PCI UDS  | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-4    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
| SAE J1962 OBDII Connector                    | Engine           | PMCI     | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PMCI2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PCI      | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PCI UDS  | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-3    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-4    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
| <b>Actuation test &amp; Special Function</b> |                  |          |  |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Clear the fast stop recorder                         |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Disable Diesel Exhaust Fluid (DEF) derate            |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Boost pressure control valve                         |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Disable Diesel Exhaust Fluid (DEF) torque limitation |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Assess the MX engine brake                           |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Diagnose the turbo actuator                          |                  |                   |           |                |                  |
|  | Special Function | PMCI2    | Evaluate the turbo actuator functionality            |                  |                   |           |                |                  |
|  | Special Function | PCI      | Enable or disable the engine idle shutdown timer     |                  |                   |           |                |                  |
|  | Special Function | PCI      | Install and calibrate the VTG turbocharger actuator  |                  |                   |           |                |                  |
|  | Special Function | PCI      | Disable the DEF derate                               |                  |                   |           |                |                  |
|  | Special Function | PCI      | Change the injector codes                            |                  |                   |           |                |                  |
|  | Special Function | PCI      | Reset the common rail pressure release valve         |                  |                   |           |                |                  |
|  | Special Function | PCI      | Read CAL-ID and CVN                                  |                  |                   |           |                |                  |
|  | Special Function | EAS-2    | AdBlue filter leakage test                           |                  |                   |           |                |                  |
|  | Special Function | EAS-3    | Reset the soot level                                 |                  |                   |           |                |                  |
|  | Special Function | EAS-3    | Install a new DPF                                    |                  |                   |           |                |                  |
|  | Special Function | EAS-3    | Install a cleaned DPF                                |                  |                   |           |                |                  |
|  | Actuation test   | PCI      | Cut-out the injectors                                |                  |                   |           |                |                  |
|  | Actuation test   | PCI      | Check the cylinder compression                       |                  |                   |           |                |                  |
|  | Actuation test   | PCI      | Diagnose the turbo actuator                          |                  |                   |           |                |                  |

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|---|------------------|----------|----------------------|------------------|-------------------|-----------|----------------|---|
| Deutsch connectors  | Models           | ECU type | Read ECU information | Read fault codes | Erase fault codes | Live data | Actuation test | Special function  |
| 9-Pin Deutsch - TYPE I GENERAL Connector                              | Engine           | PMCI     | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Engine           | PMCI2    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Engine           | PCI      | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Aftertreatment   | EAS-2    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Aftertreatment   | EAS-3    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
| 9-Pin Deutsch - TYPE II GREEN Connector                               | Engine           | PCI UDS  | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Aftertreatment   | EAS-4    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
| SAE J1962 OBDII Connector   | Engine           | PMCI     | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Engine           | PMCI2    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Engine           | PCI      | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Engine           | PCI UDS  | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Aftertreatment   | EAS-2    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
|   | Aftertreatment   | EAS-3    | ✓                    | ✓                | ✓                 | ✓         | ✓              | ✓   |
| 9-Pin Deutsch - TYPE II GREEN Connector<br>/SAE J1962 OBDII Connector | Actuation test   | PCI      |                      |                  |                   |           |                | Check if the common rail pressure release valve is stuck in closed position |
|   | Actuation test   | PCI      |                      |                  |                   |           |                | Activate the MX Engine Brake  |
|   | Actuation test   | PCI      |                      |                  |                   |           |                | Activate the red engine warning   |
|   | Actuation test   | PCI      |                      |                  |                   |           |                | Activate the yellow engine warning  |
|   | Actuation test   | PCI      |                      |                  |                   |           |                | Activate the Malfunction Indicator Lamp                                     |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Regenerate the DPF  |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Activate the mobile regeneration trigger(engineer level)                    |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Activate the air shutoff valve  |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Activate the fuel dosing valve  |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Check delivery fuel dosing valve  |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Check leakage fuel dosing valve   |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Check the fuel shutoff valve  |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Check the particulate matter sensor   |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Check the DEF pump module pressure and DEF output                           |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Prime the system with the DEF pump  |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Activate the DEF pipe heaters   |
|   | Actuation test   | EAS-4    |                      |                  |                   |           |                | Activate the DEF tank heater valve  |
|   | Special Function | PCI      |                      |                  |                   |           |                | Enable or disable the engine idle shutdown timer                            |
|   | Special Function | PCI      |                      |                  |                   |           |                | Disable the EGR derate  |
|   | Special Function | PCI      |                      |                  |                   |           |                | Install and calibrate the VTG turbocharger actuator                         |

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|--|------------------|----------|--|------------------|-------------------|-----------|----------------|------------------|
| Deutsch connectors                           | Models           | ECU type | Read ECU information                                   | Read fault codes | Erase fault codes | Live data | Actuation test | Special function |
| 9-Pin Deutsch - TYPE I GENERAL Connector     | Engine           | PMCI     | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PMCI2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PCI      | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-3    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
| 9-Pin Deutsch - TYPE II GREEN Connector      | Engine           | PCI UDS  | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-4    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
| SAE J1962 OBDII Connector                    | Engine           | PMCI     | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PMCI2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PCI      | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Engine           | PCI UDS  | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-2    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-3    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
|  | Aftertreatment   | EAS-4    | ✓  | ✓                | ✓                 | ✓         | ✓              | ✓                |
| <b>Actuation test &amp; Special Function</b> |                  |          |  |                  |                   |           |                |                  |
|  | Special Function | PCI      | Enable regeneration after aftertreatment system repair |                  |                   |           |                |                  |
|  | Special Function | PCI      | Disable the DEF derate                                 |                  |                   |           |                |                  |
|  | Special Function | PCI      | Change the injector codes                              |                  |                   |           |                |                  |
|  | Special Function | PCI      | Reset the common rail pressure release valve           |                  |                   |           |                |                  |
|  | Special Function | PCI      | Read CAL-ID and CVN                                    |                  |                   |           |                |                  |
|  | Special Function | EAS-4    | Reset the soot level                                   |                  |                   |           |                |                  |
|  | Special Function | EAS-4    | Install a new DPF                                      |                  |                   |           |                |                  |
|  | Special Function | EAS-4    | Install a cleaned DPF                                  |                  |                   |           |                |                  |