

# TROUBLESHOOTING WHEN ERROR CODE IS DISPLAYED (ERROR CODE)

|                                                     |        |
|-----------------------------------------------------|--------|
| Information described in troubleshooting list ..... | 20-406 |
| Trouble code table .....                            | 20-407 |

| Error code | Failed section                    | Trouble                 | Action code | Trouble-shooting page |
|------------|-----------------------------------|-------------------------|-------------|-----------------------|
| 1500L0     | Transmission clutch               | See the list. (L0)      | CALL E03    | 20-408                |
| 15SAL1     | Forward clutch                    | See the list. (L1)      | CALL E03    | 20-409                |
| 15SALH     | Forward clutch                    | See the list. (LH)      | CALL E03    | 20-410                |
| 15SBL1     | Reverse clutch                    | See the list. (L1)      | CALL E03    | 20-411                |
| 15SBLH     | Reverse clutch                    | See the list. (LH)      | CALL E03    | 20-412                |
| 15SEL1     | 1st clutch                        | See the list. (L1)      | CALL E03    | 20-413                |
| 15SELH     | 1st clutch                        | See the list. (LH)      | CALL E03    | 20-414                |
| 15SFL1     | 2nd clutch                        | See the list. (L1)      | CALL E03    | 20-415                |
| 15SFLH     | 2nd clutch                        | See the list. (LH)      | CALL E03    | 20-416                |
| 15SGL1     | 3rd clutch                        | See the list. (L1)      | CALL E03    | 20-417                |
| 15SGLH     | 3rd clutch                        | See the list. (LH)      | CALL E03    | 20-418                |
| A000N1     | Engine                            | Overrun (N1)            | —           | 20-419                |
| AB00MA     | Alternator                        | Malfunction (MA)        | —           | 20-420                |
| AD00L2     | Common rail                       | See the list. (L2)      | CALL E03    | 20-420                |
| AD00MA     | Common rail                       | Defective function (MA) | CALL E03    | 20-421                |
| AD10L3     | Fuel supply pump                  | See the list. (L3)      | CALL E03    | 20-421                |
| AD10MA     | Fuel supply pump                  | Defective function (MA) | CALL E03    | 20-423                |
| AD10MB     | Fuel supply pump                  | Function reduction (MB) | CALL E03    | 20-423                |
| AD11KA     | Fuel supply pump solenoid 1       | Disconnection (KA)      | CALL E03    | 20-424                |
| AD11KB     | Fuel supply pump solenoid 1       | Short circuit (KB)      | CALL E03    | 20-425                |
| AD51KA     | Fuel supply pump solenoid 2       | Disconnection (KA)      | CALL E03    | 20-426                |
| AD51KB     | Fuel supply pump solenoid 2       | Short circuit (KB)      | CALL E03    | 20-427                |
| ADA1KA     | No.1 injector solenoid            | Disconnection (KA)      | E02         | 20-428                |
| ADAZKB     | No.1, 2, and 3 injector solenoids | Short circuit (KB)      | CALL E03    | 20-429                |

Error code to display at the same time

| Error code       | Failed section                                                | Trouble                               | Action code | Trouble-shooting page |
|------------------|---------------------------------------------------------------|---------------------------------------|-------------|-----------------------|
| ADB1KA           | No.2 injector solenoid                                        | Disconnection (KA)                    | E02         | 20-431                |
| ADC1KA           | No.3 injector solenoid                                        | Disconnection (KA)                    | E02         | 20-432                |
| ADD1KA           | No.4 injector solenoid                                        | Disconnection (KA)                    | E02         | 20-433                |
| ADDZKB           | No.4, 5, and 6 injector solenoids                             | Short circuit (KB)                    | CALL E03    | 20-434                |
| ADE1KA           | No.5 fuel injector solenoid                                   | Disconnection (KA)                    | E02         | 20-436                |
| ADF1KA           | No.6 fuel injector solenoid                                   | Disconnection (KA)                    | E02         | 20-437                |
| B@BAZG           | Engine oil                                                    | Oil pressure reduction (ZG)           | —           | 20-438                |
| B@BCNS           | Radiator coolant                                              | Overheat (NS)                         | —           | 20-438                |
| B@CENS           | Power train oil                                               | Overheat (NS)                         | —           | 20-439                |
| B@HANS           | Hydraulic oil                                                 | Overheat (NS)                         | —           | 20-439                |
| D110KA           | Battery relay                                                 | Short circuit (KA)                    | —           | 20-440                |
| D110KB           | Battery relay                                                 | Disconnection (KB)                    | —           | 20-441                |
| D130KA           | Neutral safety relay                                          | Short circuit (KA)                    | E02         | 20-442                |
| D130KB           | Neutral safety relay                                          | Disconnection (KB)                    | E02         | 20-444                |
| D161KA           | Back-up alarm relay                                           | Short circuit (KA)                    | E01         | 20-446                |
| D161KB           | Back-up alarm relay                                           | Disconnection (KB)                    | E01         | 20-448                |
| D182KZ           | Preheater relay coil                                          | Disconnection or short circuit (KZ)   | E01         | 20-450                |
| D1D0KB           | Engine controller load power supply relay                     | Short circuit (KB)                    | E02         | 20-452                |
| D5ZFKA           | Transmission neutral signal                                   | Disconnection (KA)                    | E01         | 20-454                |
| D5ZFKB           | Transmission neutral signal                                   | Short circuit (KB)                    | E01         | 20-455                |
| DAFRKR           | Monitor panel CAN communication                               | Defective communication (KR)          | CALL E03    | 20-456                |
| DAQ0KK<br>DB30KK | Steering and transmission controller                          | Source voltage reduction/input (KK)   | CALL E04    | 20-458                |
| DAQ0KT           | Steering and transmission controller                          | Abnormality in controller (KT)        | E02         | 20-459                |
| DAQ5KK<br>DB35KK | Steering and transmission controller sensor 5 V power supply  | Source voltage reduction/input (KK)   | CALL E03    | 20-460                |
| DAQ6KK<br>DB36KK | Steering and transmission controller sensor 24 V power supply | Source voltage reduction/input (KK)   | CALL E03    | 20-462                |
| DAQ9KQ<br>DB39KQ | Steering and transmission controller type collation           | Type select signal inconsistency (KQ) | CALL E04    | 20-463                |
| DB3RKR           | Steering and transmission controller CAN communication        | Defective communication (KR)          | CALL E03    | 20-464                |
| DB20KQ           | Engine controller type collation                              | Type select signal inconsistency (KQ) | CALL E03    | 20-466                |
| DB20KT           | Engine controller                                             | Abnormality in controller (KT)        | CALL E03    | 20-467                |

Error code to display at the same time

| Error code       | Failed section                                                | Trouble                                  | Action code | Trouble-shooting page |
|------------------|---------------------------------------------------------------|------------------------------------------|-------------|-----------------------|
| DB22KK           | Engine controller load power supply                           | Source voltage reduction/input (KK)      | CALL E04    | 20-468                |
| DB29KQ           | Engine controller type select                                 | Type select signal inconsistency (KQ)    | CALL E03    | 20-470                |
| DB2AMA           | Fuel injection amount adjustment switch signal                | Malfunction (MA)                         | E02         | 20-471                |
| DB2RKR           | Steering and transmission controller CAN communication        | Defective communication (KR)             | CALL E04    | 20-472                |
| DB2RMC           | Engine controller CAN communication                           | Defective communication (MC)             | CALL E03    | 20-474                |
| DB30KK<br>DAQ0KK | Steering and transmission controller                          | Source voltage reduction/input (KK)      | CALL E04    | 20-476                |
| DB35KK<br>DAQ5KK | Steering and transmission controller sensor 5 V power supply  | Source voltage reduction/input (KK)      | CALL E03    | 20-476                |
| DB36KK<br>DAQ6KK | Steering and transmission controller sensor 24 V power supply | Source voltage reduction/input (KK)      | CALL E03    | 20-476                |
| DB39KQ<br>DAQ9KQ | Steering and transmission controller type collation           | Type select signal inconsistency (KQ)    | CALL E04    | 20-476                |
| DD11KB           | Starting switch                                               | Short circuit (KB)                       | CALL E04    | 20-477                |
| DD12KA           | Shift up switch                                               | Disconnection (KA)                       | E02         | 20-478                |
| DD12KB           | Shift up switch                                               | Short circuit (KB)                       | E02         | 20-480                |
| DD13KA           | Shift down switch                                             | Disconnection (KA)                       | E02         | 20-482                |
| DD13KB           | Shift down switch                                             | Short circuit (KB)                       | E02         | 20-484                |
| DD14KA<br>DDQ2KA | Parking lever switch                                          | Disconnection (KA)                       | CALL E03    | 20-486                |
| DD14KB<br>DDQ2KB | Parking lever switch                                          | Short circuit (KB)                       | CALL E03    | 20-488                |
| DDE2L6           | Engine oil pressure switch                                    | Refer to table (L6)                      | E01         | 20-490                |
| DDN7KA           | Pitch control switch                                          | Disconnection (KA)                       | E02         | 20-492                |
| DDN7KB           | Pitch control switch                                          | Short circuit (KB)                       | E02         | 20-494                |
| DDQ2KA<br>DD14KA | Parking lever switch                                          | Disconnection (KA)                       | CALL E03    | 20-496                |
| DDQ2KB<br>DD14KB | Parking lever switch                                          | Short circuit (KB)                       | CALL E03    | 20-496                |
| DGE2KX           | Engine water temperature sensor (for high temperature)        | Input signal is out of normal range (KX) | E01         | 20-497                |
| DGE3L6           | Engine water temperature sensor (for low temperature)         | See table (L6)                           | E02         | 20-498                |
| DGE4KX           | Fuel temperature sensor                                       | Input signal is out of normal range (KX) | E01         | 20-499                |
| DGS1KX           | Hydraulic oil temperature sensor                              | Input signal is out of normal range (KX) | —           | 20-500                |
| DH30KX           | Boost pressure sensor                                         | Input is out of normal range (KX)        | E02         | 20-502                |
| DH40KX           | Common rail pressure sensor                                   | Input is out of normal range (KX)        | CALL E03    | 20-504                |
| DK10KX           | Fuel control dial                                             | Input is out of normal range (KX)        | CALL E03    | 20-506                |
| DK12KX           | Deceleration potentiometer                                    | Input is out of normal range (KX)        | CALL E03    | 20-508                |

| Error code | Failed section                   | Trouble                                              | Action code | Trouble-shooting page |
|------------|----------------------------------|------------------------------------------------------|-------------|-----------------------|
| DK30KA     | Steering potentiometer 1         | Disconnection (KA)                                   | CALL E03    | 20-510                |
| DK30KB     | Steering potentiometer 1         | Short circuit (KB)                                   | CALL E03    | 20-511                |
| DK30KX     | Steering potentiometer           | Input signal is out of normal range (KX)             | CALL E04    | 20-512                |
| DK30KZ     | Steering potentiometer           | Disconnection or short circuit (Double trouble) (KZ) | CALL E04    | 20-512                |
| DK30L8     | Steering potentiometer 1         | See table (L8)                                       | CALL E03    | 20-513                |
| DK31KA     | Steering potentiometer 2         | Short circuit (KA)                                   | CALL E03    | 20-514                |
| DK31KB     | Steering potentiometer 2         | Disconnection (KB)                                   | CALL E03    | 20-515                |
| DK40KA     | Brake potentiometer              | Disconnection (KA)                                   | CALL E03    | 20-516                |
| DK40KB     | Brake potentiometer              | Short circuit (KB)                                   | CALL E03    | 20-517                |
| DK55KX     | Forward-reverse potentiometer    | Input signal is out of normal range (KX)             | CALL E04    | 20-518                |
| DK55KZ     | Forward-reverse potentiometer    | Disconnection or short circuit (Double trouble) (KZ) | CALL E04    | 20-518                |
| DK55L8     | Forward-reverse potentiometer    | See table (L8)                                       | CALL E03    | 20-519                |
| DK56KA     | Forward-reverse potentiometer 1  | Short circuit (KA)                                   | CALL E03    | 20-520                |
| DK56KB     | Forward-reverse potentiometer 1  | Disconnection (KB)                                   | CALL E03    | 20-522                |
| DK57KA     | Forward-reverse potentiometer 2  | Short circuit (KA)                                   | CALL E03    | 20-524                |
| DK57KB     | Forward-reverse potentiometer 2  | Disconnection (KB)                                   | CALL E03    | 20-526                |
| DKH1KA     | Pitch angle sensor               | Short circuit (KA)                                   | CALL E03    | 20-528                |
| DKH1KB     | Pitch angle sensor               | Disconnection (KB)                                   | CALL E03    | 20-529                |
| DLE3LC     | Engine Ne speed sensor           | See table (LC)                                       | CALL E03    | 20-530                |
| DLF1KA     | Transmission output speed sensor | Disconnection (KA)                                   | E01         | 20-531                |
| DLH1LC     | Engine G speed sensor            | See table (LC)                                       | CALL E03    | 20-532                |
| DV00KB     | Caution buzzer                   | Short circuit (KB)                                   | —           | 20-533                |
| DW5AKA     | Pitch control solenoid           | Disconnection (KA)                                   | E02         | 20-534                |
| DW5AKB     | Pitch control solenoid           | Short circuit (KB)                                   | E02         | 20-535                |
| DW7BKA     | Fan reverse solenoid             | Disconnection (KA)                                   | E01         | 20-536                |
| DW7BKB     | Fan reverse solenoid             | Short circuit (KB)                                   | E01         | 20-537                |
| DWN1KA     | HSS EPC solenoid right           | Disconnection (KA)                                   | CALL E03    | 20-538                |
| DWN1KB     | HSS EPC solenoid right           | Short circuit (KB)                                   | CALL E03    | 20-539                |
| DWN2KA     | HSS EPC solenoid left            | Disconnection (KA)                                   | CALL E03    | 20-540                |

| Error code | Failed section        | Trouble            | Action code | Trouble-shooting page |
|------------|-----------------------|--------------------|-------------|-----------------------|
| DWN2KB     | HSS EPC solenoid left | Short circuit (KB) | CALL E03    | 20-541                |
| DWN5KA     | Fan pump TVC solenoid | Disconnection (KA) | E01         | 20-542                |
| DWN5KB     | Fan pump TVC solenoid | Short circuit (KB) | E01         | 20-543                |
| DXH4KA     | 1st clutch ECMV       | Disconnection (KA) | CALL E03    | 20-544                |
| DXH4KB     | 1st clutch ECMV       | Short circuit (KB) | CALL E03    | 20-545                |
| DXH5KA     | 2nd clutch ECMV       | Disconnection (KA) | CALL E03    | 20-546                |
| DXH5KB     | 2nd clutch ECMV       | Short circuit (KB) | CALL E03    | 20-547                |
| DXH6KA     | 3rd clutch ECMV       | Disconnection (KA) | CALL E03    | 20-548                |
| DXH6KB     | 3rd clutch ECMV       | Short circuit (KB) | CALL E03    | 20-549                |
| DXH7KA     | Reverse clutch ECMV   | Disconnection (KA) | CALL E03    | 20-550                |
| DXH7KB     | Reverse clutch ECMV   | Short circuit (KB) | CALL E03    | 20-551                |
| DXH8KA     | Forward clutch ECMV   | Disconnection (KA) | CALL E03    | 20-552                |
| DXH8KB     | Forward clutch ECMV   | Short circuit (KB) | CALL E03    | 20-553                |