Case IH & New Holland Fault Codes

SEARCH FOR ERROR CODES:

Type	Error Code	Error
ENG	111	Engine Controller Failure - Hardware Failure
ENG	115	Engine Speed Sensor (8.3, 9 Liter) or Cam Sensor (15 Liter) is failed
ENG	121	Engine Position Sensor (8.3, 9 Liter) or Crankshaft Sensor (15 Liter) is failed
ENG	122	Boost Pressure Sensor voltage is too high
ENG	123	Boost Pressure Sensor voltage is too low
ENG	124	Boost Pressure level has exceeded the warning limit.
ENG	131	Decelerator or Hand Throttle (STD cab) Position potentiometer voltage is too high
ENG	132	Decelerator or Hand Throttle (STD cab) Position potentiometer voltage is too low
ENG	133	Decelerator (STD cab) Position potentiometer voltage is too high
ENG	134	Decelerator (STD cab) Position potentiometer voltage is too low
ENG	135	Oil Pressure Sensor voltage is too high
ENG	141	Oil Pressure Sensor voltage is too low
ENG	143	Oil Pressure level has fallen below the warning limit.
ENG	144	Coolant Temperature Sensor voltage is too high
ENG	145	Coolant Temperature Sensor voltage is too low
ENG	146	Coolant Temperature level has exceeded the warning limit.
ENG	147	Frequency Throttle Signal shorted high
ENG	148	Frequency Throttle Signal shorted low
ENG	151	Coolant Temperature level has exceeded the warning limit.
ENG	153	Intake Manifold Temperature Sensor voltage is too high
ENG	154	Intake Manifold Temperature Sensor voltage is too low
ENG	155	Intake Manifold Temperature level has exceeded the warning limit.
ENG	187	Sensor Supply 2 Voltage is too low.

ENG 191 A/C clutch driver shorted to ground when ON.

ENG 211 Communications problem with Armrest, Instrumentation, or Transmission Controllers

ENG 212 Oil Temperature Sensor Voltage is too high

ENG 213 Oil Temperature Sensor Voltage is too low

ENG 214 Oil Temperature Sensor Voltage is above normal range

ENG 219 Oil Level - remote reservoir is too low. Add oil.

ENG 221 Ambient Air Pressure Sensor Voltage is too high

ENG 222 Ambient Air Pressure Sensor Voltage is too low

ENG 223 CORS - Burn Valve Solenoid is shorted either low or high

ENG 227 Sensor Supply 2 Voltage is too high.

ENG 234 Engine Speed has exceed the overspeed warning limit.

ENG 235 Engine Coolant Level is low. Add coolant fluid.

ENG 237 External Speed Multi Unit Sync Command Input Data Incorrect.

ENG 241 Vehicle Speed Signal lost

ENG 242 Vehicle Speed Signal intermittent / tampering

ENG 243 Error detected in exhaust brake relay

ENG 245 Fan Clutch Voltage too low

ENG 254 Fuel Shutoff Valve Voltage too low

ENG 255 Fuel Shutoff Valve Voltage too high

ENG 259 Fuel Shutoff Valve mechanically stuck open.

ENG 263 Fuel Temperature Sensor voltage is too high

ENG 265 Fuel Temperature Sensor voltage is too low

ENG 268 Fuel Pressure in pump is not changing with operating conditions.

ENG 271 Front Pumping Control Valve current is low during ‘click test’

ENG 272 Front Pumping Control Valve current is high

ENG 273 Rear Pumping Control Valve current is low during ‘click test’

ENG 274 Rear Pumping Control Valve current is high

ENG 275 Front Pumping element is failed

ENG 276 Injection Control Valve current is out of range

ENG 277 Injection Control Valve is failed

ENG 278 Fuel Lift Pump is failed

ENG 279 Injection Control Valve current is out of range

ENG 281 Front Pumping element is failed

ENG 282 Rear Pumping element is failed

ENG 283 Engine Speed/Position Sensor supply voltage is too high

ENG 284 Engine Speed/Position Sensor supply voltage is too low

ENG 285 J1939 Parameter was set to be multiplexed, but not received (timeout error)

ENG 286 J1939 Parameter was set to be multiplexed, but not available from all sources (config error)

ENG 287 Multiplexing throttle parameter and a data error was received - data invalid

ENG 288 Multiplexing remote throttle parameter and a data error was received - data invalid

ENG 293 Hydraulic Fan Hydraulic Oil Temperature Sensor Voltage is too high

ENG 294 Hydraulic Fan Hydraulic Oil Temperature Sensor Voltage is too low

ENG 295 Ambient Air Pressure data invalid

ENG 297 OEM Pressure Sensor Voltage is too high.

ENG 298 OEM Pressure Sensor Voltage is too low.

ENG 299 Engine Shutdown by other than keyswitch (i.e. via data bus command)

ENG 319 Real Time Clock in controller has lost power

ENG 328 Rear Pumping element is failed

ENG 329 CAPS Pump has an overpumping failure

ENG 338 Idle Shutdown Vehicle Accessory Relay Voltage is too high

ENG 339 Idle Shutdown Vehicle Accessory Relay Voltage is too low

ENG 341 All data written during powerdown cycle was lost (checksum error)

ENG 343 Engine Controller Failure - Hardware Failure

ENG 349 Measured Speed is too high.

ENG 352 5 Volt Sensor Supply voltage is too low

ENG 378 Front Fueling current is too low

ENG	379	Front fueling current is too high
ENG	381	Error detected in cold start relay 1
ENG	382	Error detected in cold start relay 2
ENG	385	5 Volt Sensor Supply voltage is too high
ENG	386	5 Volt Sensor Supply voltage is too high
ENG	387	Decelerator or Hand Throttle (STD cab) 5 Volt Supply voltage is too high
ENG	388	Engine Brake driver 1 circuit failure
ENG	392	Engine Brake driver 2 circuit failure
ENG	393	Engine Brake driver 3 circuit failure
ENG	394	Front Timing current is too low.
ENG	395	Front Timing current is too high.
ENG	396	Rear Fueling current is too low
ENG	397	Rear Fueling current is too high
ENG	398	Rear Timing current is too low
ENG	399	Rear Timing current is too high
ENG	412	J1708 data link cannot transmit
ENG	414	J1708 data link not fast enough
ENG	415	Oil Pressure level has fallen below the very low warning limit.
ENG	418	Water in Fuel sensor indicates the water in the fuel filter needs to be drained.
ENG	419	Boost Pressure data invalid
ENG	422	Engine Coolant Level Sensor (optional) is failed or the jumper plug is missing
ENG	426	J1939 data link cannot transmit
ENG	427	J1939 data link not fast enough
ENG	428	Water in Fuel Sensor voltage is too high.
ENG	429	Water in Fuel Sensor voltage is too low.
ENG	431	Hand Throttle (STD cab) Idle Validation Switches are both closed
ENG	432	Hand Throttle (STD cab) position potentiometer and switches disagree.
ENG	433	Boost Pressure level disagrees with engine operation conditions (speed & power)

ENG 434 Unswitched 12 volt supply voltage disconnected without normal key off sequence.

ENG 435 Oil Pressure data invalid

ENG 441 Battery Voltage is too Low (less than 6 volts)

ENG 442 Battery Voltage is too High

ENG 443 Decelerator or Hand Throttle (STD cab) 5 Volt Supply voltage is too low

ENG 444 Low voltage detected at OEM 5 volt supply

ENG 449 Fuel Pressure level has exceeded the warning limit.

ENG 451 Fuel Pressure Sensor voltage is too high

ENG 452 Fuel Pressure Sensor voltage is too low

ENG 456 Fuel Pressure in pump is not changing with operating conditions.

ENG 465 Wastegate 1 voltage is too high

ENG 466 Wastegate 1 voltage is too low

ENG 482 Fuel Pressure Sensor voltage low

ENG 483 Rear Bank Post Actuactor Pressure voltage high

ENG 484 Rear Bank Post Actuactor Pressure voltage low

ENG 485 Rear Fueling actuator overfueling

ENG 486 Rear Fueling actuator underfueling

ENG 488 Intake Manifold Temperature level has exceeded the warning limit.

ENG 489 Measured Speed Sensor data low

ENG 491 Wastegate 2 voltage is too high

ENG 492 Wastegate 2 voltage is too low

ENG 493 The Injection Control Identifier Circuit in the harness has failed.

ENG 496 Engine Speed / Position Sensor #2 supply is too low

ENG 524 Error detected on high speed governor droop selection switch

ENG 527 Cab pressurization/Ether relay coil circuit shorted high or open

ENG 529 Output B driver shorted high or open

ENG 539 The Injection Control Valve Transorb in the harness has failed. (open circuit)

ENG 546 Fuel Pressure sensor voltage is too high.

ENG 547 Fuel Pressure sensor voltage is too low.

ENG 551 Hand Throttle (STD cab) Idle Validation Switches are both open

ENG 553 Front fueling actuator overfueling

ENG 559 Front fueling actuator underfueling

ENG 581 Fuel inlet Pressure Sensor voltage is too high.

ENG 582 Fuel inlet Pressure Sensor voltage is too low.

ENG 583 Fuel Inlet Pressure Sensor voltageout of range high or low.

ENG 595 Turbo overspeed protection fault

ENG 596 Battery voltage is too high

ENG 597 Battery voltage is too low

ENG 598 Battery voltage is very low

ENG 599 Engine is being shutdown based on OEM input

ENG 611 ECM detected engine initiated protection shutdown or keyed-off while above specific load limit

ENG 697 Engine Controller internal temperature too high

ENG 698 Engine Controller internal temperature too low

ENG 731 Engine Speed / Position #2 - Mechanical misalignment.

ENG 753 Synchronization has been lost.

ENG 755 Front Bank injector is bad.

ENG 758 Rear Bank injector is bad

ENG 951 A power imbalance between the cylinders was detected by the controller hardware

ENG 983 Unused A/D input channel out of range.

ENG 1117 Battery voltage too low, or the controller was not allowed to power down correctly

ENG 1256 Control Module Identification Input State Error.

ENG 1257 Control Module Identification Input State Error.

ENG 2117 Engine Coolant Level is low. Add coolant fluid.

ENG 2186 Supply Voltage to the accelerator pedal position sensor too low.

ENG 2195 Auxiliary Equipment Sensor Input # 3 - Engine Protection Critical - Special Instructions.

ENG 2249 Injector Metering Rail 1 Fuel Pressure lower than commanded pressure.

ENG 2265 Electric Lift Pump for Engine Fuel Supply Voltage too high.

ENG 2266 Electric Lift Pump for Engine Fuel Supply Voltage too low.

ENG 2292 Fuel Inlet Meter Device higher than expected.

ENG 2293 Fuel Inlet Meter Device flow demand lower than expected.

ENG 2311 Electronic Fuel Injection Control Valve open or closed Circuit.

ENG 2321 Engine Crankshaft Speed / Position data invalid.

ENG 2322 Engine Camshaft Speed / Position Sensor data invalid.

ENG 2372 Engine Fuel Filter clogged error

ENG 2555 Intake Air Heater 1 Circuit Voltage too high.

ENG 2558 Auxiliary PWM Driver 1 Circuit Voltage too low.

ENG 2973 Intake Manifold 1 Pressure data invalid.

TRANS 11 Master Clutch Potentiometer Open Circuit or short to ground

TRANS 12 Master Clutch Potentiometer Short to +12 Volts or short to 5 Vreff

TRANS 24 None of the transmission clutches are calibrated

TRANS 37 BOC switch open circuit or Neutral relay stuck open

TRANS 38 Shuttled to reverse when no wheel speed signal was available

TRANS 47 Clutch pedal bottom of clutch switch misadjusted

TRANS 48 BOC switch or Neutral relay short circuit

TRANS 49 Auto Guidance Isolation valve driver Fault

TRANS 50 Park Brake is powered off when in park

TRANS 51 FNRP pod indicates Forward or Reverse is on, when Park is on

TRANS 52 Park Brake is stuck on when commanded off

TRANS 53 5 volt reference voltage too high

TRANS 54 5 volt reference voltage too low

TRANS 59 FNRP pod in illogical state (two positions on at same time)

TRANS 60 FNRP pod in illogical state (in no position)

TRANS 61 System pressure valve solenoid circuit is open circuit or shorted to ground

TRANS 62 System pressure solenoid is shorted to B+

TRANS 64 Transmission output Sped is too high (above 8200 RPM)

TRANS 65 Operator attempted a shuttle operation while out of the seat

TRANS 66 FNRP Pod Forward switch is shorted to ground or open circuit

TRANS 67 FNRP Pod Forward switch is shorted to power

TRANS 68 FNRP Pod Reverse switch is shorted to ground or open circuit

TRANS 69 FNRP Pod Reverse switch is shorted to power

TRANS 70 Battery voltage is too low for clutch solenoid operation

TRANS 72 Transmission Oil Temperature is above 122 deg. C

TRANS 73 Software is out of the calibration mode and the park brake request is still active.

TRANS 74 The park brake ON with gear is engaged - no park brake request from calibration.

TRANS 75 Engine speed from Inst Controller does not match the speed signal from the alternator.

TRANS 76 Engine speed from Eninge Controller does not match the speed signal from the alternator.

TRANS 77 No signal from wheel speed sensor

TRANS 78 Transmission regulated pressure accumulator is discharged

TRANS 79 Engine RPM from the alternator is measured too high

TRANS 80 Wheel speed sensor is measured too high

TRANS 81 Transmission clutches are slipping

TRANS 82 Creep Clutch is not calibrated

TRANS 83 Communications Lost with Engine Controller

TRANS 103 Odd clutch solenoid or its wiring failed open or shorted to ground

TRANS 104 Even clutch solenoid or its wiring failed open or shorted to ground

TRANS 105 C1-2 clutch solenoid or its wiring failed open or shorted to ground

TRANS 106 C3-4 clutch solenoid or its wiring failed open or shorted to ground

TRANS 107 C5-6 clutch solenoid or its wiring failed open or shorted to ground

TRANS 108	Master clutch solenoid or its wiring failed open or shorted to ground
TRANS 109	Low range clutch solenoid or its wiring failed open or shorted to ground
TRANS 110	Mid range clutch solenoid or its wiring failed open or shorted to ground
TRANS 111	High range clutch solenoid or its wiring failed open or shorted to ground
TRANS 112	Reverse clutch solenoid or its wiring failed open or shorted to ground
TRANS 113	Creeper clutch solenoid or its wiring failed open or shorted to ground
TRANS 114	Even clutch solenoid coil or its wiring shorted to power
TRANS 115	Odd clutch solenoid coil or its wiring shorted to power
TRANS 116	C1-2 clutch solenoid coil or its wiring shorted to power
TRANS 117	C3-4 clutch solenoid coil or its wiring shorted to power
TRANS 118	C5-6 clutch solenoid coil or its wiring shorted to power
TRANS 119	Master clutch solenoid coil or its wiring shorted to power
TRANS 120	Low range clutch solenoid coil or its wiring shorted to power
TRANS 121	Mid range clutch solenoid coil or its wiring shorted to power
TRANS 122	High range clutch solenoid coil or its wiring shorted to power
TRANS 123	Reverse clutch solenoid coil or its wiring shorted to power
TRANS 124	Creeper clutch solenoid coil or its wiring shorted to power
TRANS 125	Odd clutch is not calibrated
TRANS 126	Even clutch is not calibrated
TRANS 127	C1-2 clutch is not calibrated
TRANS 128	C3-4 clutch is not calibrated
TRANS 129	C5-6 clutch is not calibrated
TRANS 130	Low range clutch is not calibrated
TRANS 131	Mid range clutch is not calibrated
TRANS 132	High range clutch is not calibrated
TRANS 133	Reverse clutch is not calibrated
TRANS 134	Master clutch is not calibrated
TRANS 135	Communication lost with the armrest controller
TRANS 136	Communication lost with the instrumentation controller

TRANS	137	Front Suspension raise lock solenoid circuit shorted or open circuit
TRANS	138	Front Suspension raise solenoid circuit shorted or open circuit
TRANS	139	Front Suspension lower lock solenoid circuit shorted or open circuit
TRANS	140	Front suspension position is above the expected absolute limit
TRANS	141	Front suspension position is below the expected absolute limit
TRANS	142	Front suspension travel range has not been calibrated
TRANS	143	Front suspension position is above the upper suspension range
TRANS	144	Front suspension position is below the lower suspension range
TRANS	145	Front Suspension lower lock solenoid circuit shorted or open circuit
TRANS	146	Regulated system pressure low (below 100PSI / 689 KPA)
TRANS	147	Regulated system pressure below 290 PSI
TRANS	148	Backup alarm circuit shorted or open
TRANS	150	Front suspension pressure sensor rod side (DA-R) out of range high
TRANS	151	Front suspension pressure sensor rod side open circuit
TRANS	152	Front Suspension pressure control not able to increase pressure on the rod side
TRANS	153	Front Suspension pressure control not able to decrease pressure on the rod side
TRANS	154	Front Suspension Lock Valve Stuck on fault (suspension will not lock)
TRANS	155	Front Suspension Lock Valve is stuck of (suspension will not unlock)
TRANS	156	Lock valve was installed but removed
ARM	19	Hand THROTTLE potentiometer is failed
ARM	29	Aux 1st remote valve LEVER potentiometer is failed
ARM	39	Aux 2nd remote valve LEVER potentiometer is failed
ARM	49	Aux 3rd remote valve LEVER potentiometer is failed
ARM	59	Aux 4th remote valve LEVER potentiometer is failed
ARM	69	HITCH POSITION command potentiometer is failed
ARM	79	HITCH LOAD command potentiometer is failed
ARM	89	Aux 1st remote valve FLOW potentiometer is failed
ARM	99	Aux 2nd remote valve FLOW potentiometer is failed

ARM	109	Aux 3rd remote valve FLOW potentiometer is failed
ARM	119	Aux 4th remote valve FLOW potentiometer is failed
ARM	129	Aux 5th remote valve FLOW potentiometer is failed
ARM	139	Aux remote valve TIMER potentiometer is failed
ARM	149	Hitch UPPER LIMIT potentiometer is failed
ARM	159	Hitch DROP RATE potentiometer is failed
ARM	169	Hitch TRAVEL potentiometer is failed
ARM	1029	Aux 5th remote valve control switch is failed
ARM	1039	PTO switch is failed
ARM	1049	Hitch UP/DOWN switch is failed
ARM	1059	Hitch SLIP switch is failed
ARM	1069	MFD switch is failed
ARM	1079	DIFF LOCK switch is failed
ARM	1089	Programmable UP/DOWN switch is failed.
ARM	1099	Aux remote valve LIMIT SET switch is failed
ARM	1109	Hand Throttle IDLE VALIDATION switch is failed
ARM	1119	RECORD/PLAY switch is failed
ARM	1129	Invalid Configuration - Implement Depth Control switch is failed
ARM	1139	Engine Brake switch is failed
ARM	1149	Auto Field / Transport Switch is in an illogical state
ARM	8011	Battery Voltage is too Low
ARM	9011	Controller Memory Error - Loss of Hitch Position Command Calibration
ARM	9012	Controller Memory Error - Loss of Aux Remote Lever Calibrations
ARM	9013	Controller Memory Error - Loss of Throttle Calibrations
ARM	9014	Controller Memory Error - Loss of MFD switch Configuration
ARM	9015	Controller Memory Error - Loss of Trans switches Configuration
ARM	9021	Hitch position command potentiometer calibration results not acceptable
ARM	9031	Hand throttle potentiometer calibration results not acceptable
ARM	9041	Hitch DROP RATE potentiometer calibration value(s) are out of range

ARM 10091 Armrest Controller failure - 5 V regulator failure

ARM 12013 Communications Lost with Data Bus and ALL other controllers

ARM 12081 Loss of/unavailable Performance Monitor Display - RECORD/PLAY functionality disabled

TMF 3 Hitch Raise Solenoid High Side Driver shorted to 12 volts.

TMF 4 Hitch Raise Solenoid Failed Open or Shorted to Ground.

TMF 5 Hitch Lower Solenoid Shorted to 12 volts.

TMF 6 Hitch Lower Solenoid High Side Driver circuit short to 12 volts.

TMF 7 Hitch Raise/Lower Solenoids Open or short to ground.

TMF 11 Communications Lost with Data Bus and ALL other controllers

TMF 12 Communication lost with the armrest controller

TMF 14 5 Volt Sensor Supply voltage is too high

TMF 15 5 Volt Sensor Supply voltage is too low

TMF 17 Hitch Position Command potentiometer failed in the Armrest controller

TMF 18 Hitch Rockshaft Position potentiometer is outside normal operating range.

TMF 19 Hitch Upper Limit potentiometer is failed in the Armrest Controller

TMF 21 Hitch Load Command potentiometer is failed in the Armrest Controller

TMF 22 Single draft pin sensor failed when configured for one draft pin sensor.

TMF 23 Two draft pin sensors failed when configured for two draft pins.

TMF 24 Communications Lost with Instrumentation Controller

TMF 25 Hitch Up/Down Switch failed in the Armrest controller

TMF 26 Fender UP and DOWN switch failure or both switches simultaneously pressed

TMF 28 Hitch Travel potentiometer is failed in the Armrest Controller

TMF 29 Hitch Drop Rate potentiometer is failed in the Armrest Controller

TMF 30 Right Draft Pin voltage is outside the normal operating range.

TMF 31 Left Draft Pin voltage is outside the normal operating range.

TMF 32 Ground Speed Signal is failed in the Instrumentation Controller

TMF 33 Hitch Slip Set Switch failed in the Armrest controller

TMF 34 Hitch Slip Select Switch failed in the Armrest controller

TMF 35 Slip Sensor (radar or wheel speed) is failed in the Instrumentation Controller

TMF 37 The ARU reports EDC Transport Lock is faulty or not available.

TMF 41 Draft pin(s) detected but the Armrest controller specified tractor without draft control.

TMF 42 Engine speed must be set above 1600 rpm during calibration of lower valve.

TMF 43 No Draft pin(s) detected but the Armrest controller specified tractor with draft control.

TMF 44 Hitch calibration aborted due to tractor movement.

TMF 45 Hitch calibration attempted when the engine is not running or engine speed signal is failed.

TMF 47 Raise Valve calibration value is too high. (valve problem)

TMF 48 Raise Valve calibration value is too low. (valve problem)

TMF 50 Hitch position at top of travel is not within specification during calibration

TMF 51 Lower Valve calibration value is too high. (valve problem)

TMF 52 Lower Valve calibration value is too low. (valve problem)

TMF 53 The time allowed for hitch calibration has expired

TMF 54 Hitch position at bottom of travel is not within specification during calibration

TMF 55 Hitch position range from top to bottom is not within spec during calibration

TMF 56 Hitch position range to position command range ratio is not within spec during calibration.

TMF 57 Right Draft Pin voltage is not within spec for ‘no load’ condition during calibration

TMF 58 Left Draft Pin voltage is not within spec for ‘no load’ condition during calibration

TMF 59 Both Draft Pin voltages are not within spec for ‘no load’ condition during calibration

TMF 60 Draft pin connected to left vs right for single pin setup during calibration

TMF 61 The Hitch Calibration procedure must be performed.

TMF 62 Communications Lost with Performance Monitor Function

TMF 63 Controller 8 volt reference is too high (above 8.8 volts).

TMF 64 Controller 8 volt reference is too low (below 7.2 volts).

TMF	65	Battery Voltage is too Low
TMF	66	Battery Voltage is too Low
TMF	80	MFD fault condition in software.
TMF	81	MFD Solenoid is failed Open or Short Circuit
TMF	82	Differential Lock Solenoid is failed Open or Short Circuit
TMF	83	Brake Lamp Relay Solenoid is failed Open or Short Circuit
TMF	86	Wheel Slip Signal is failed in the Instrumentation Controller
TMF	87	Ground Speed Signal is failed in the Instrumentation Controller
TMF	88	Differential Lock Switch is failed in the Armrest Controller
TMF	89	Differential Lock Switch is failed in the Armrest Controller
TMF	90	Differential Lock Switch is failed in the Armrest Controller
TMF	92	MFD Switch is failed in the Armrest Controller
TMF	93	MFD Switch is failed in the Armrest Controller
TMF	94	Differential Lockout fault condition in software.
TMF	95	The steering angle sensor is above the expected operating range
TMF	96	The steering angle sensor is below the expected operating range
TMF	98	Battery Voltage is too Low
TMF	99	Battery Voltage is too Low
TMF	106	Aux 5th remote valve control switch (Extend) is failed in the Armrest Controller
TMF	107	Aux 5th remote valve control switch (Retract) is failed in the Armrest Controller
TMF	108	Aux 1st remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	109	Aux 2nd remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	110	Aux 3rd remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	111	Aux 4th remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	112	Aux 1st remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	113	Aux 2nd remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	114	Aux 3rd remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	115	Aux 4th remote valve FLOW potentiometer is failed in the Armrest Controller

TMF	116	Aux 5th remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	120	Electro Hydraulic Remote top link switch is stuck on.
TMF	123	Aux 1st Lower Coil solenoid shorted to 12 volts.
TMF	124	Aux 1st Lower solenoid failed open or short circuit.
TMF	125	Aux 1st Raise Coil solenoid shorted to 12 volts.
TMF	126	Aux 1st Raise solenoid failed open or short circuit.
TMF	127	Aux 2nd Lower Coil solenoid shorted to 12 volts.
TMF	128	Aux 2nd Lower solenoid failed open or short circuit.
TMF	129	Aux 2nd Raise Coil solenoid shorted to 12 volts.
TMF	130	Aux 2nd Raise solenoid failed open or short circuit.
TMF	131	Aux 3rd Lower Coil solenoid shorted to 12 volts.
TMF	132	Aux 3rd Lower solenoid failed open or short circuit.
TMF	133	Aux 3rd Raise Coil solenoid shorted to 12 volts.
TMF	134	Aux 3rd Raise solenoid failed open or short circuit.
TMF	135	Aux 4th Lower Coil solenoid shorted to 12 volts.
TMF	136	Aux 4th Lower solenoid failed open or short circuit.
TMF	137	Aux 4th Raise Coil solenoid shorted to 12 volts.
TMF	138	Aux 4th Raise solenoid failed open or short circuit.
TMF	139	Aux 5th Lower Coil solenoid shorted to 12 volts.
TMF	141	Aux 5th Raise Coil solenoid shorted to 12 volts.
TMF	142	Aux 5th Raise solenoid failed open or short circuit.
TMF	147	Implement feedback #1 out of range High
TMF	148	Implement feedback #1 out of range Low
TMF	149	Implement feedback #2 out of range High
TMF	150	Implement feedback #2 out of range Low
TMF	151	Communications Lost with Transmission Controller
TMF	152	Electro Hydraulic Remote top link switch voltage is short circuit.
TMF	153	Electro Hydraulic Remote top link switch data invalid
TMF	154	PTO switch interlock - Cab Switch and Fender switch on at the same time.

TMF 155 Auto PTO switch data failed in the Armrest controller.

TMF 156 Auto PTO switch stuck ON in Armrest Controller.

TMF 157 PTO remote fender switch short circuit.

TMF 158 PTO remote fender switch open circuit

TMF 159 PTO remote fender switch stuck ON.

TMF 160 PTO Clutch is Slipping Too Much

TMF 162 Engine Stalled when the PTO was running.

TMF 163 PTO Shaft rotation is detected when the PTO clutch is OFF.

TMF 164 PTO shaft speed has not been detected within 3.6 seconds of being turned ON.

TMF 165 PTO Shaft rotation is detected when the Engine is OFF.

TMF 166 PTO Driver is on and no current is sensed.

TMF 167 Current sensed when the PTO driver is off.

TMF 168 PTO ON/OFF switch is failed in the Armrest Controller

TMF 169 PTO ON/OFF switch is failed in the Armrest Controller

TMF 170 PTO ON/OFF switch is failed in the Armrest Controller

TMF 171 PTO software fault condition detected.

TMF 172 PTO Solenoid Circuit is failed shorted to 12 Volts when PTO is in the off state.

TMF 173 PTO Solenoid Circuit is failed shorted to ground when PTO is in the off state.

TMF 174 Current flowing in the PTO sense resistor when the high side is off.

TMF 175 PTO Clutch has not reached lock up speed within 6 seconds of being turned ON

TMF 178 PTO speed sensor has been changed.

TMF 179 The PTO is receiving no frequency from the Shaft Size Sensor on a two speed PTO

TMF 180 The PTO is receiving signals from the Shaft Size Sensor on a single speed PTO configuration.

INST 1015 Seat Switch may be stuck closed.

INST 1024 Trans oil filter switch shorted to ground on power up.

INST 1034 Hydraulic oil filter switch shorted to ground on power up.

INST	3010	PTO Shaft Speed sensor is failed in PTO Controller
INST	3020	Engine Speed sensor is failed in the Engine Controller
INST	3022	Engine Overspeed Error
INST	5010	Engine Oil Pressure sensor is failed in the Engine Controller
INST	5011	Engine Oil Pressure sensor voltage is too low (open circuit, short to ground)
INST	7024	Reversible Fan Control open circuit or shorted to ground.
INST	10031	Controller Memory Error - Loss of Engine Hours information
INST	10032	Controller Memory Error - Loss of Vehicle Configuration information
INST	10033	Controller Memory Error - Loss of Customer Configuration information
INST	10034	Controller Memory Error: Loss of valid fuel table information.
INST	10035	Controller Memory Error - Loss of Valid Radar Configuration information.
INST	10036	Controller Memory Error - Loss of Displayed Performance information
INST	10037	Controller Memory Error - Loss of Implement Width information
INST	10038	Controller Memory Error - Loss of Valid Remote Timer information.
INST	11011	Fuel Level Sensor voltage is too low (open circuit, short to ground)
INST	12011	Communications Lost with Armrest Controller
INST	12021	Communications Lost with Auxiliary Controller
INST	12031	Communications Lost with Hitch Controller
INST	12043	Communications Lost with Data Bus 1 and ALL other controllers
INST	12051	Communications Lost with PTO Controller
INST	12053	Communications Lost with Vehicle Data Bus 2.
INST	12071	Communications Lost with Transmission Controller
INST	12091	Communications Lost with Engine Controller
INST	12101	Communications Lost with Tractor ECU (Gateway) Controller
INST	12111	Communications Lost with Automatic Temperature Controller
INST	12121	Communications Lost with Color Perfomance Monitor
INST	13010	Engine Coolant Temperature sensor is failed in the Engine Controller
INST	13011	Engine Coolant Temperature sensor voltage is too low (short to ground)

INST 13012 Engine Coolant Temperature sensor voltage is too high (open circuit, short to +V)

INST 13021 Transmission Oil Temperature sensor voltage is too low (short to ground)

INST 13022 Transmission Oil Temperature sensor voltage is too high (open circuit, short to +V)

INST 13031 Hydraulic Oil Temperature sensor voltage is too low (short to ground)

INST 13032 Hydraulic Oil Temperature sensor voltage is too high (open circuit, short to +V)

INST 13040 Air to Air Intake Temperature sensor is failed in the Engine Controller

INST 13044 When fuel shut off relay is latched, short is detected (mechanical engine tractors only)

INST 13051 Air to Air Intake Temperature sensor voltage is too low (short to ground)

INST 13052 Air to Air Intake Temperature sensor voltage is too high (open circuit, short to +V)

INST 53001 Instrumentation Controller Configuration is Incorrect

INST 53002 Air to Air Intake sensor does not match Tractor Model Configuration

INST 53005 Engine Shutdown activated by Instrument Controller

INST 65535 NO ERROR. Errors have not been cleared from factory.

ATC 111 Cab sensor open or shorted to power

ATC 112 Cab sensor shorted to ground

ATC 115 Evaporator sensor open or shorted to power

ATC 116 Evaporator sensor shorted to ground

ATC 120 Blower speed select pot open/shorted to power

ATC 121 Temperature select pot open/shorted to power

ATC 122 Mode Select Pot Open Or Shorted To Power

ATC 125 High pressure switch (+) input shorted to power

ATC 126 High pressure switch (+) input shorted to ground

ATC 127 High pressure switch (-) input shorted to power

ATC 128 High pressure switch (-) input shorted to ground

ATC 129 High pressure cycling error (2 in 1 minute)

ATC 130 Low pressure switch (+) input shorted to power

ATC 131 Low pressure switch (+) input shorted to ground

ATC 132 Low pressure switch (-) input shorted to power

ATC 133 Low pressure switch (-) input shorted to ground

ATC 134 Low pressure switch open for > 1 minute

ATC 113 Outlet sensor open or shorted to power

ATC 114 Outlet sensor shorted to ground

ATC 117 Outside air sensor open or shorted to power

ATC 118 Outside air sensor shorted to ground

Hitch 1002 Raise hitch valve coil short to 12 volts or raise hitch valve coil circuit failure.

Hitch 1003 Open or Short to Ground raise hitch valve coil circuit failure.

Hitch 1004 Lower hitch valve coil short to 12 volts or lower hitch valve coil circuit failure.

Hitch 1005 Open or short to ground lower hitch valve coils.

Hitch 1006 EDC Low Side Driver stuck on failure.

Hitch 1007 Low side driver watchdog test failed.

Hitch 1008 Low side of raise solenoid connected permanently to GND

Hitch 1009 Low side of lower solenoid connected permanently to GND

Hitch 1011 TCU (Tractor Controller Unit) is disconnected from the CAN bus.

Hitch 1012 No communication with the ACM (Armrest Controller Module).

Hitch 1013 No communication with the ICP (Instrument Cluster Panel).

Hitch 1014 Five-volt reference is above the upper voltage limit.

Hitch 1015 Five-volt reference is below the lower voltage limit.

Hitch 1016 Not implemented

Hitch 1017 Position Command value received over the CAN data bus from the Armrest indicates Position Command potentiometer failed.

Hitch 1018 Hitch rockshaft position potentiometer open/short/misadjust or circuit failure.

Hitch 1019 Upper Limit value received from CAN data bus indicates failure condition.

Hitch 1021 Load Command value received from CAN data bus indicates failure condition.

Hitch 1022 Single draft pin sensor failed when configured for one draft pin sensor.(CCH Only)

Hitch 1023 Two draft pin sensors failed when configured for two draft pins.(CCH Only)

Hitch 1024 ICU CAN data bus signal lost.

Hitch 1025 Up/Down/Down Momentary switch value received from CAN data bus indicates switch failure.

Hitch 1026 Up/Down remote fender switch failure.

Hitch 1027 Not implemented

Hitch 1028 Travel Range potentiometer value received from CAN data bus indicates failure condition.

Hitch 1029 Drop Rate value received from CAN data bus indicates potentiometer failure condition.

Hitch 1030 Right draft pin voltage is outside the normal operating range.(CCH Only)

Hitch 1031 Left draft pin voltage is outside the normal operating range.(CCH Only)

Hitch 1032 Ground speed failure-value received from CAN data bus indicates failure condition.

Hitch 1033 Slip Limit Set Point received from CAN data bus indicates failure condition.

Hitch 1034 Slip Enable switch received from CAN data bus indicates failure condition.

Hitch 1035 The Percent slip received from ETC indicates failure condition.

Hitch 1036 The ARU reports EDC Inching Up switch faulty or not available.

Hitch 1037 The ARU reports EDC Inching Down switch faulty or not available.

Hitch 1065 The ARU specified tractor without draft control (position only hitch) but detected presence of draft pin(s).

Trans 2009 Seat switch open circuit

Trans 2010 Seat switch is shorted to the supply voltage B+ or 5 volt reference

Trans 2011 Clutch Pot Open Circuit or short to ground

Trans 2012 Clutch Potentiometer Short to +12 Volts or short to 5 Volt reference.

Trans 2024 none of the Transmission clutches are calibrated. This will be the condition when a new controller is installed on the tractor.

Trans 2037 Bottom of Clutch pedal switch open circuit or bottom of clutch relay is stuck open

Trans 2047 Clutch pedal bottom of clutch switch misadjusted.

Trans 2048 Bottom of Clutch pedal switch or the bottom of clutch relay are short circuit

Trans 2049 Trans

Trans 2054 5 volt reference voltage too low.

Trans 2055 No signal from wheel speed sensor.

Trans 2056 5 volt internal reference voltage too high.

Trans 2057 5 volt internal reference voltage too low.

Trans 2059 1) Switch inputs indicate shuttle lever is in both forward and neutral 2) Switch inputs indicate shuttle lever is in both reverse and neutral3) Switch inputs indicate shuttle lever is in both forward and reverse. Cycle the shuttle lever which may free up stuck switches, or try driving the opposite direction.

Trans 2071 Forward switch input from the FNRP Pod is shorted to ground or is open circuit.

Trans 2072 Reverse switch input from the FNRP Pod is shorted to +12 Volts or the FNRP pod 5 Volt Reference.

Trans 2073 Reverse switch input from the FNRP Pod is shorted to ground or open circuit.

Trans 2074 FNR Not Park Switch low voltage fault

Trans 2075 FNR Not Park Switch high Voltage fault

Trans 2110 FNR Neutral Switch Low Voltage fault

Trans 2111 FNR Neutral Switch high Voltage fault

Trans 2326 The Engine RPM sourced from the alternator measured by the controller is excessively high.

Trans 2327 No engine RPM

Trans 2330 The Transmission output RPM speed, sourced from the sensor, measured by the controller is too high for the desired gear

Trans 2331 The transmission clutches are slipping

Trans 2342 Clutch Odd solenoid open circuit or short to ground.

Trans 2343 Clutch Even solenoid open circuit or short to ground.C33

Trans 2344 Clutch C1-2 solenoid open circuit or short to ground.

Trans 2345 Clutch C3-4 solenoid open circuit or short to ground.

Trans 2346 Clutch 5-6 solenoid open circuit or short to ground.

Trans 2374 Master Clutch solenoid open circuit or short to ground.

Trans 2347 Clutch Low Range solenoid open circuit or short to ground.

Trans 2348 110 Clutch Mid Range solenoid open circuit or short to ground.

Trans 2349 Clutch High Range solenoid open circuit or short to ground.

Trans 2350 Clutch reverse solenoid open circuit or short to ground.

Trans 2351 The creeper clutch solenoid is open circuit or short to ground

Trans 2353 Even Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2352 Odd Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2354 C1-2 Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off..

Trans 2355 C3-4 Clutch Solenoid is shorted to +12 Volts, Current sensed while driver is off.

Trans 2356 C5-6 clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2357 Low clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2358 Mid Clutch Solenoid is shorted to +12 Volts, Current sensed while driver is off.

Trans 2359 High Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2360 Reverse Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2361 The creeper clutch solenoid is shorted to +12 Volts, current sensed while the driver is off

Trans 2362 Master Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.

Trans 2363 The Odd Clutch is not calibrated

Trans 2364 Even Clutch not calibrated

Trans 2365 C1-2 Clutch not calibrated

Trans 2366 C3-4 Clutch not calibrated

Trans 2367 C5-6 Clutch not calibrated

Trans 2368 Low Range Clutch not calibrated

Trans 2369 Mid Range Clutch not calibrated

Trans 2370 High Clutch not calibrated

Trans 2371 Reverse Clutch not calibrated

Trans 2372 Creep Clutch is not calibrated

Trans 2373 Master Clutch not calibrated

Trans 2800 Auto Guidance Isolation valve driver Fault

Trans 2805 System pressure valve solenoid circuit is open circuit or shorted to ground

Trans 2806 System pressure solenoid is shorted to B+

Trans 2807 Transmission output rpm over speed

Trans 2809 The battery voltage is too low to permit operation of the clutch solenoids.

Trans 2811 Transmission Oil Temperature Hot

Trans 2812 Transmission Oil Temperature sensor short to B+ or open circuit

Trans 2813 Transmission oil temperature Sensor Short to Ground

Trans 2814 Integrated Control Panel off line

Trans 2815 Governor Engine RPM alternator engine RPM mismatch

Trans 2816 Transmission regulated pressure accumulator is flat

Trans 2817 Governor is offline CAN bus

Trans 2818 Communication lost with the Armrest Control Module(ACM)

Trans 2819 Communication lost with the instrumentation controller.

Trans 2820 System pressure low possible System pressure hydraulic pump failure or leak

Trans 2821 System Pressure Low fault

Trans 2850 The Park Brake is stuck on by no electrical power supplied when commanded on

Trans 2851 The Park Brake Driver has detected an over current or an open circuit condition

Trans 2852 The Park Brake is stuck on by no electrical power supplied to the solenoid when driver is commanded on. Possible service brake bottom brake switches open.

Trans 2055 No signal from wheel speed sensor.

Trans 2873 Software is out of the calibration mode and the park brake request is still active. If this fault is detected there is a bug in the software

Trans 2874 The park brakes commanded on and gear is engaged and there is no park brake request from calibration. If this fault is detected there is a bug in the software

Trans 2900 Torque sensor Gap is on the larger end of the tolerance (CCH Only)

Trans 2901 Signal received from the torque sensor is not in any fault range or normal range tolerance (CCH Only)

Trans 2902 Torque sensor has declared an internal fault tolerance (CCH Only)

Trans 2903 Torque sensor supply voltage below 4.8 volts tolerance (CCH Only)

Trans 2910 12VF1voltage supply is low. (possible blown fuse*)

Trans 2911 12VT1voltage supply is low. (possible blown fuse*)

Trans 2912 12VF2voltage supply is low. (possible blown fuse*)

Trans 2913 12VHvoltage supply is low. (possible blown fuse*)

Trans 2914 12VF3voltage supply is low. (possible blown fuse*)

Trans 2915 12VS1voltage supply is low. (possible blown fuse*)

Engine 3000 Unknown ECM Error Code Received

Engine 3999 Unknown ECM Error Code Received

Engine 3001 Foot Throttle Sensor -Signal Not Plausible

Engine 3002 Foot Throttle Sensor -Signal Above Range Max.

Engine 3003 Foot Throttle Sensor -Signal Below Range Min.

Engine 3004 Foot Throttle Sensor -No Signal -Error

Engine 3006 Coolant Temperature Sensor -Signal Not Plausible(Compared with Engine Oil Temperature)

Engine 3007 Coolant Temperature Sensor -Signal Above Range Max.

Engine 3008 Coolant Temperature Sensor -Signal Below Range Min.

Engine 3009 Coolant Temperature Sensor -(via CAN) No Signal

Engine 3010 Air Intake Temperature Sensor -Signal Above Range Max.

Engine 3011 Air Intake Temperature Sensor -Signal Above Range Min.

Engine 3012 Air Intake Temperature Sensor -(via CAN) No Signal

Engine 3015 Fuel Temperature Signal -Signal Above Range Max.

Engine 3016 Fuel Temperature Signal -Signal Below Range Min.

Engine 3019 Boost Pressure Sensor -Signal Above Range Max.

Engine 3021 Boost Pressure Sensor -(via CAN) No Signal

Engine 3022 Boost Pressure Sensor -Signal Not Plausible

Engine 3023 Atmospheric Pressure Sensor -Signal Not Plausible Compared with Boost Pressure

Engine 3024 Atmospheric Pressure Sensor -Signal Above Range Max.

Engine 3025 Atmospheric Pressure Sensor -Signal Below Range Min.

Engine 3028 Oil Pressure Too Low

Engine 3029 Oil Pressure Sensor _Short circuit to Battery

Engine 3030 Oil Pressure Sensor _Short circuit to Ground

Engine 3031 Oil Pressure Sensor -Hardware Error

Engine 3032 Oil Pressure Sensor -Value Too High

Engine 3033 Oil Temperature Sensor -Signal Not Plausible (Compared with Coolant Temperature)

Engine 3034 Oil Temperature Sensor -Signal Above Range Max.

Engine 3035 Oil Temperature Sensor -Signal Below Range Min.

Engine 3036 Oil Temperature Sensor -(via CAN) No Signal

Engine 3037 Boost Pressure Sensor -Signal Low

Engine 3038 Constant Engine RPM Activate / Select Switch _Short circuit to Ground

Engine 3039 Cruise Control Actuating Device -Evaluation Error

Engine 3043 Vehicle Speed Sensing -Hardware Conversion Error

Engine 3044 Vehicle Speed Sensing -Signal Above Range Max.

Engine 3045 Vehicle Speed Sensing -Signal Below Range Min.

Engine 3046 Vehicle Speed Sensing -Signal Not Plausible

Engine 3047 Main Relay 2 Failure _Short circuit to Battery

Engine 3048 Main Relay 2 Failure _Short circuit to Ground

Engine 3051 Battery Voltage to ECM too High

Engine 3052 Battery Voltage to ECM too Low

Engine 3053 Vehicle Speed Sensing (Tacho) -PWM Frequency Too High

Engine 3054 Vehicle Speed Sensing (Tacho) -PWM Average Frequency Above Limit

Engine 3055 Vehicle Speed Sensing (Tacho) -PWM Average Frequency Below Limit

Engine	3056	Vehicle Speed Sensing (Tacho) -Not Plausible
Engine	3057	Timeout of CAN Message High Resolution Wheel Speed
Engine	3058	Timeout of CAN Message Vehicle Dynamics Control Unit
Engine	3059	ECM After run was Interrupted
Engine	3060	Cylinder1 -Unclassifiable Error in Injector
Engine	3061	Cylinder1 -Injector Cable Short circuit (Low Side to Battery)
Engine	3062	Cylinder1 -Application Dependent
Engine	3063	Cylinder1 -Injector Cable Short circuit (High Side to Ground)
Engine	3064	Cylinder5 -Unclassifiable Error in Injector
Engine	3065	Cylinder5 -Injector Cable Short circuit (Low Side to Battery)
Engine	3066	Cylinder5 -Application Dependent
Engine	3067	Cylinder5 -Injector Cable Short circuit (High Side to Ground)
Engine	3068	Cylinder3 -Unclassifiable Error in Injector
Engine	3069	Cylinder3 -Injector Cable Short circuit (Low Side to Battery)
Engine	3070	Cylinder3 -Application Dependent
Engine	3071	Cylinder3 -Injector Cable Short circuit (High Side to Ground)
Engine	3072	Cylinder6 -Unclassifiable Error in Injector
Engine	3073	Cylinder6 -Injector Cable Short circuit (Low Side to Battery)
Engine	3074	Cylinder6 -Application Dependent
Engine	3075	Cylinder6 -Injector Cable Short circuit (High Side to Ground)
Engine	3076	Cylinder2 -Unclassifiable Error in Injector
Engine	3077	Cylinder2 -Injector Cable Short circuit (Low Side to Battery)
Engine	3078	Cylinder2 -Application Dependent
Engine	3079	Cylinder2 -Injector Cable Short circuit (High Side to Ground)
Engine	3080	Cylinder4 -Unclassifiable Error in Injector
Engine	3081	Cylinder4 -Injector Cable Short circuit (Low Side to Battery)
Engine	3082	Cylinder4 -Application Dependent
Engine	3083	Cylinder4 -Injector Cable Short circuit (High Side to Ground)
Engine	3088	Crankshaft Sensor -No Signal

Engine 3089 Crankshaft Sensor -Invalid Signal

Engine 3090 Camshaft Sensor -No Signal

Engine 3091 Camshaft Sensor -Invalid Signal

Engine 3092 Offset Between Camshaft and Crankshaft -Not Plausible

Engine 3093 Offset Between Camshaft and Crankshaft -Outside Boundaries

Engine 3095 Operating with Camshaft Sensor Only -Backup Mode

Engine 3096 Tier 3: ECM Bus Off on CAN A Tier 4a: ECM Bus Off on Vehicle CAN

Engine 3097 ECM Bus Off on Engine private CAN

Engine 3098 Timeout of CAN Message TSC1-TE (When Active)

Engine 3099 Timeout of CAN Message TSC1-TE (When Inactive)

Engine 3100 Timeout of CAN Message TSC1-AE (When Active)

Engine 3101 Timeout of CAN Message TSC1-AE (When Inactive)

Engine 3102 Rail Pressure Sensor CP3 -Signal Below Range Min.

Engine 3104 Rail Pressure Relief Valve -Open

Engine 3105 Rail Pressure Relief Valve -Pressure Shock Requested

Engine 3106 Rail Pressure Relief Valve -Did Not Open After Pressure Shock

Engine 3107 Metering Unit _Short circuit to Battery

Engine 3108 Metering Unit _Short circuit to Ground

Engine 3110 Rail Pressure Sensor Offset Monitoring -Value above Limit

Engine 3111 Rail Pressure Sensor Offset Monitoring -Value below Limit

Engine 3112 Rail Pressure Sensor CP3 -Signal Above Range Max.

Engine 3113 Main Relay 1 (High Pressure Pump -power supply to the fuel metering unit) -Short to Battery

Engine 3114 Main Relay 1 (High Pressure Pump -power supply to the fuel metering unit) Short to Ground

Engine 3117 PTO Twist Sensor -Out of Range

Engine 3118 ECM 12V Sensor Supply Voltage High

Engine 3119 ECM 12V Sensor Supply Voltage Low

Engine 3120 PTO Twist Sensor -Not Plausible

Engine 3121 PTO Twist Sensor -Open Circuit

Engine 3122 PTO Twist Sensor _Short circuit to Ground

Engine 3123 PTO Twist Sensor -Not Calibrated

Engine 3124 Hand Throttle -Channel 2 Above Range Max.

Engine 3125 Hand Throttle -Channel 2 Below Range Min.

Engine 3126 Hand Throttle -Channel 1 Signal Above Range Max.

Engine 3127 Hand Throttle -Channel 1 Signal Below Range Min.

Engine 3128 Hand Throttle -Channel Difference Error

Engine 3129 Hand Throttle -Idle Switch Closed Circuit

Engine 3130 Hand Throttle -Idle Switch Open Circuit

Engine 3131 Grid Heater Always Switched On

Engine 3133 Cold Start Lamp -No Load

Engine 3134 Cold Start Lamp _Short circuit to Battery

Engine 3135 Cold Start Lamp _Short circuit to Ground

Engine 3136 Cold Start Lamp -Excessive Temperature

Engine 3137 Metering Unit -Open Load

Engine 3138 Metering Unit -Temperature Too High

Engine 3139 Metering Unit Signal Range Check -Signal Too High

Engine 3140 Metering Unit Signal Range Check -Signal Too Low

Engine 3141 Fuel Flow Set point Too Low

Engine 3142 High Pressure Test -Test Active

Engine 3143 Grid Heater Switch Off Test (Voltage Drop Too High)

Engine 3144 Grid Heater Switch Off Test (Voltage Drop Too Low)

Engine 3145 Terminal 15 -No Signal

Engine 3146 Water Detected In Fuel

Engine 3147 Oil Temperature Too High

Engine 3148 Coolant Temperature Sensor Dynamic Test -Failure (Minimum Temperature Raise Not Reached)

Engine 3149 Coolant Temperature Sensor Test -Failure (Minimum Temperature Not Reached)

Engine 3150 System/Amber Warning Lamp _Short circuit to Battery

Engine	3151	System/Amber Warning Lamp _Short circuit to Ground
Engine	3152	System/Amber Warning Lamp -No Load
Engine	3153	System/Amber Warning Lamp -Excessive Temperature
Engine	3154	Grid Heater Relay _Short circuit to Battery
Engine	3155	Grid Heater Relay _Short circuit to Ground
Engine	3156	Grid Heater Relay -No Load
Engine	3157	ECM Not Detected on CAN bus
Engine	3158	Invalid ECM Checksum
Engine	3159	Invalid Engine Reference Torque
Engine	3160	Fan Actuator _Short circuit to Battery
Engine	3161	Fan Actuator _Short circuit to Ground
Engine	3162	Fan Actuator -Open Load
Engine	3163	Fan Actuator -Temperature Too High
Engine	3164	Fan Speed Sensor _Signal High
Engine	3165	Fan Speed Sensor -Signal Low
Engine	3166	Fuel Filter Heater Relay _Short circuit to Battery
Engine	3167	Fuel Filter Heater Relay _Short circuit to Ground
Engine	3168	Fuel Filter Heater Relay -Open Load
Engine	3169	Fuel Filter Heater Relay -Signal Not Plausible
Engine	3176	Set point of Metering Unit Not Plausible in Overrun
Engine	3177	Engine Over speed Detected
Engine	3178	Timeout of CAN Message BC2EDC1
Engine	3179	Timeout of CAN Message BC2EDC2
Engine	3180	Timeout of CAN Message VCM2EDC
Engine	3181	Rail Pressure Positive Deviation Too High Concerning Set point
Engine	3182	Timeout of CAN Message RxCCVS
Engine	3183	Timeout of CAN Message TSC1-VR (When Active)
Engine	3184	Timeout of CAN Message TSC1-VR (When Inactive)
Engine	3185	Timeout of CAN message TF

Engine	3186	Cylinder1 Warning -Fast Decay Error
Engine	3187	Cylinder1 Warning -Application Dependent
Engine	3188	Cylinder1 Warning -Injector Circuit Low
Engine	3189	Cylinder1 Warning -Current Level Error
Engine	3190	Cylinder2 Warning -Fast Decay Error
Engine	3191	Cylinder2Warning -Application Dependent
Engine	3192	Cylinder2 Warning -Open Load
Engine	3193	Cylinder2 Warning -Current Level Error
Engine	3194	Cylinder3 Warning -Fast Decay Error
Engine	3195	Cylinder3 Warning -Application Dependent
Engine	3196	Cylinder3 Warning -Open Load
Engine	3197	Cylinder3 Warning -Current Level Error
Engine	3198	Cylinder4 Warning -Fast Decay Error
Engine	3199	Cylinder4 Warning -Application Dependent
Engine	3200	Cylinder4 Warning -Open Load
Engine	3201	Cylinder4 Warning -Current Level Error
Engine	3202	Cylinder5 Warning -Fast Decay Error
Engine	3203	Cylinder5 Warning -Application Dependent
Engine	3204	Cylinder5 Warning -Open Load
Engine	3205	Cylinder5 Warning -Current Level Error
Engine	3206	Cylinder6 Warning -Fast Decay Error
Engine	3207	Cylinder6 Warning -Application Dependent
Engine	3208	Cylinder6 Warning -Open Load
Engine	3209	Cylinder6 Warning -Current Level Error
Engine	3210	Bank1 -General Short circuit on Injection Cable
Engine	3211	Bank1 -Injection Cable Short circuit Low Side to Ground
Engine	3212	Bank1 -Application Dependent
Engine	3213	Bank1 -Unclassifiable Error
Engine	3214	Bank1 Warning -Application Dependent

Engine	3215	Bank1 Warning -Application Dependent
Engine	3216	Bank1 Warning -Open Load
Engine	3217	Bank1 Warning -Unclassifiable Error
Engine	3218	Bank2-General Short circuit on Injection Cable
Engine	3219	Bank2 -Injection Cable Short circuit Low Side to Ground
Engine	3220	Bank2 -Application Dependent
Engine	3221	Bank2 -Unclassifiable Error
Engine	3222	Bank2 Warning -Application Dependent
Engine	3223	Bank2 Warning -Application Dependent
Engine	3224	Bank2 Warning -Open Load
Engine	3225	Bank2 Warning -Unclassifiable Error
Engine	3226	Messages SRA2EDC
Engine	3227	Injection Processor (CY33X) Error -Internal Reset / Clock Loss / Voltage Too Low
Engine	3228	Injection Processor (CY33X) Error -Unlocked / Initialization Failure
Engine	3229	Injection Processor (CY33X) Error -Injections Limited By Software
Engine	3230	Injection Processor (CY33X) Error -SPI Communication Failure
Engine	3231	Injection Processor Error -Internal Reset / Clock Loss / Voltage Too Low
Engine	3232	Injection Processor Error -Unlocked / Initialization Failure
Engine	3233	Injection Processor Error -Test Mode
Engine	3234	Injection Processor Error -SPI Communication Failure
Engine	3235	Number of Injections Limited -by Charge Balance
Engine	3236	Number of Injections Limited -by Quantity Balance
Engine	3237	Number of Injections Limited -by Software
Engine	3238	ECM Internal SPI Communication Error -CJ940
Engine	3239	ECM EEPROM -Read Operation Failure
Engine	3240	ECM EEPROM -Write Operation Failure
Engine	3241	ECM EEPROM -Default Value Used
Engine	3242	ECM (Locked) Recovery Occurred

Engine	3243	ECM (Suppressed) -Recovery Occurred
Engine	3244	ECU Recovery (Visible) -Recovery Occurred
Engine	3245	ECM Processor -Watchdog Not Plausible
Engine	3246	Shutoff Paths During Initialization -Watchdog
Engine	3247	Shutoff Paths During Initialization -Supply Voltage Too High
Engine	3248	Shutoff Paths During Initialization -Supply Voltage Too Low
Engine	3249	TPU Monitoring -Time Deviation between TPU and System Not Plausible
Engine	3250	Dataset -Variant Defect
Engine	3251	Dataset -Requested Variant Could Not Be Set
Engine	3252	Controller Watchdog -SPI Communication Failure
Engine	3253	ADC Monitoring -Reference Voltage Too High
Engine	3254	ADC Monitoring -Reference Voltage Too Low
Engine	3255	ADC Monitoring -Test Impulse Error
Engine	3256	ADC Monitoring -Queue Error
Engine	3257	Turbine Speed and Air Pressure Too High
Engine	3258	High Side Power -Short circuit to Battery
Engine	3259	High Side Power _Short circuit to Ground
Engine	3260	Low Side Power -Open Load
Engine	3261	Low Side Power -Short circuit to Battery of Excess Temperature
Engine	3262	Low Side Power _Short circuit to Ground
Engine	3263	ECM Bus Off on CAN C
Engine	3264	Immobilizer -Injection Disabled
Engine	3265	Overrun Monitoring -Injection Time Too Long
Engine	3266	Redundant Engine Speed in Overrun Monitoring -Speed Signal Not Plausible
Engine	3267	Main relay 3 _Short circuit to Battery
Engine	3268	Main relay 3 _Short circuit to Ground
Engine	3269	Grid Heater Switch On Test -Voltage Drop Too High
Engine	3270	Grid Heater Switch On Test -Voltage Drop Too Low
Engine	3271	Fuel Low Pressure Sensor -(via CAN) No Signal

Engine	3272	Fuel Low Pressure Sensor -Signal Above Range Max.
Engine	3273	Fuel Low Pressure Sensor -Signal Below Range Min.
Engine	3274	Fuel Low Pressure Sensor Dynamic Plausibility Test -Above Map
Engine	3275	Fuel Low Pressure Sensor Dynamic Plausibility Test -Below Map
Engine	3276	MIL Visualization Not Available for BC2EDC1
Engine	3277	Timeout of CAN Message Dashboard Display
Engine	3278	ECM Internal Supply Voltage Too High -CJ940 Above Limit
Engine	3279	ECM Internal Supply Voltage Too Low -CJ940 Below Limit
Engine	3280	Sensor Supply Voltage 1 -High
Engine	3281	Sensor Supply Voltage 1 - Low
Engine	3282	Timeout of CAN Message WSI (Wheel Speed Info)
Engine	3283	Sensor Supply Voltage 2 -High
Engine	3284	Sensor Supply Voltage 2 - Low
Engine	3285	Sensor Supply Voltage 3 -High
Engine	3286	Sensor Supply Voltage 3 - Low
Engine	3287	Turbo Compound Monitoring -No Signal
Engine	3288	Turbo Compound Monitoring -Signal High
Engine	3289	Turbo Compound Monitoring -Signal Low
Engine	3290	Turbo Compound Monitoring -Signal Not Plausible
Engine	3291	Cylinder 1 Specific Errors -No Signal
Engine	3292	Cylinder 1 Specific Errors -Signal Low
Engine	3293	Cylinder 1 BIP Search Failure -Too Many Unsuccessful Searched
Engine	3294	Cylinder 1 Specific Errors -Signal Not Plausible
Engine	3295	Cylinder 2 Specific Errors -No Signal
Engine	3296	Cylinder 2 Specific Errors -Signal Low
Engine	3298	Cylinder 2 Specific Errors -Signal Not Plausible
Engine	3299	Cylinder 3 Specific Errors -No Signal
Engine	3300	Cylinder 3 Specific Errors -Signal Low

Engine 3301 Cylinder 3 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure Negative Deviation too High on Minimum Metering

Engine 3302 Cylinder 3 Specific Errors -Signal Not Plausible

Engine 3303 Cylinder 4 Specific Errors -No Signal

Engine 3304 Cylinder 4 Specific Errors -Signal Low

Engine 3305 Cylinder 4 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure below Minimum Limit in Controlled Mode

Engine 3306 Cylinder 4 Specific Errors -Signal Not Plausible

Engine 3307 Cylinder 5 Specific Errors -No Signal

Engine 3308 Cylinder 5 Specific Errors -Signal Low

Engine 3309 Cylinder 5 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure above Maximum Limit in Controlled Mode

Engine 3310 Cylinder 5 Specific Errors -Signal Not Plausible

Engine 3311 Cylinder 6 Specific Errors -No Signal

Engine 3312 Cylinder 6 Specific Errors -Signal Low

Engine 3313 Cylinder 6 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure Drop Rate too High

Engine 3314 Cylinder 6 Specific Errors -Signal Not Plausible

Engine 3315 Minimum Number of Injections Not Reached -Stop Engine

Engine 3316 Minimum Number of Injections Not Reached -Stop Engine

Engine 3317 Minimum Number of Injections Not Reached -Stop Engine

Engine 3318 Minimum Number of Injections Not Reached -Stop Engine

Engine 3319 DM1DCU SPN2 message -Error in DCU active

Engine 3320 DM1DCU SPN3 message -Error in DCU active

Engine 3321 Timeout of CAN Message DM1DCU SPN4

Engine 3322 Timeout of CAN Message ERC1DR

Engine 3323 Timeout of CAN Message RxAMCONIv (Ambient Conditions)

Engine 3324 Timeout of CAN Message EBC1 (Electronic Brake Switch)

Engine 3325 Timeout of CAN Message ETC1 (Transmission)

Engine 3326 Timeout of CAN Message ETC2 (Transmission)

Engine	3327	Timeout of CAN Message TCO1 (Tachograph)
Engine	3328	Timeout of CAN Message TSC1-AR (When Inactive)
Engine	3329	Timeout of CAN Message TSC1-AR (When Active)
Engine	3330	Timeout of CAN Message TSC1-DE (When Inactive)
Engine	3331	Timeout of CAN Message TSC1-DE (When Active)
Engine	3332	Timeout of CAN Message TSC1-DR (When Inactive)
Engine	3333	Timeout of CAN Message TSC1-DR (When Active)
Engine	3334	Timeout of CAN message TSC1-PE Torque (When Active)
Engine	3335	Timeout of CAN message TSC1-PE Torque (When Inactive)
Engine	3336	Timeout of CAN Message TSC1-TR (When Inactive)
Engine	3337	Timeout of CAN Message TSC1-TR (When Active)
Engine	3338	Timeout of CAN message TSC1-VE Speed (When Inactive)
Engine	3339	Timeout of CAN message TSC1-VE Speed (When Active)
Engine	3340	Timeout of CAN Message Time Date
Engine	3341	Timeout of CAN Message HRVD (High Resolution Vehicle Distance)
Engine	3342	Power Stage Air Heater 2 Actuator -No Signal
Engine	3343	Power Stage Air Heater 2 Actuator -Signal High
Engine	3344	Power Stage Air Heater 2 Actuator -Signal Low
Engine	3345	Total Throttle Failure (Only applies to Dual Throttle Vehicles)
Engine	3346	Multiple State Switch
Engine	3347	Multiple State Switch
Engine	3348	Multiple State Switch
Engine	3349	Multiple State Switch
Engine	3350	Terminal 50 -Always On
Engine	3351	Engine Brake Decompression Valve -Open Load
Engine	3352	Engine Brake Decompression Valve _Short circuit to Battery
Engine	3353	Engine Brake Decompression Valve _Short circuit to Ground
Engine	3354	Main Relay 4 (Engine Brake Exhaust Valve) _Short circuit to Ground
Engine	3355	Main Relay 4 (Engine Brake Exhaust Valve) -Short to Battery or open load

Engine 3356 Cylinder Shutoff (Cylinder Balancing Disabled) -Shutoff Active

Engine 3357 Misfire in Multiple Cylinders -Too Many Misfires

Engine 3358 CAN Transmit Timeout

Engine 3359 TSC Demand Physically Implausible

Engine 3360 Driving Dynamic Control -Not Plausible

Engine 3361 ECM EEPROM -General Error

Engine 3362 Torque to Quantity Map -Not Plausible

Engine 3363 Atmospheric Pressure Sensor -Processed via ADC (no CAN Plausibility Performed)

Engine 3364 Foot Pedal 2 -Signal Too High

Engine 3365 Foot Pedal 2 -Signal Too Low

Engine 3366 Foot Pedal 2 -Signal Not Plausible Compared to Foot Pedal 1

Engine 3367 Coolant Temperature Test Failure

Engine 3368 Info: Torque Limitation due to OBD Performance Limiter by Legislation

Engine 3369 Torque Reduction due to Smoke Limitation

Engine 3370 Info: Torque Limitation due to Engine Protection (against Excessive Torque, Engine Over speed and Overheat)

Engine 3371 Info: Torque Limitation due to Fuel Quantity Limitation because of Injection System Errors

Engine 3372 Injection Quantity Adjustment failure -Invalid Adjustment Value

Engine 3373 Injection Quantity Adjustment failure -EEPROM Adjustment Value Not Readable

Engine 3374 Injection Quantity Adjustment failure -Invalid EEPROM Adjustment Value Checksum

Engine 3375 Constant Engine RPM Increase / Decrease Switch _Short circuit to Battery

Engine 3376 Engine Controller Software Does Not Support Power Management (Engine Power Management Option Enabled, but Engine Software Not Compatible)

Engine 3377 Constant Engine RPM Switch Detected but Option Not Enabled.

Engine 3380 Engine Fan Increase Speed Error (open or short circuit)

Engine 3381 Engine Fan Decrease Speed Error (open or short circuit)

Engine 3382 Fan Control Solenoid Short To 12Vr

Engine 3383 Fan Control Solenoid Open Or Short To GND

Engine 3384 Vistronic Engine Cooling Fan driver open or short circuit

Engine 3399 Engine Fuel Lift Pump relay driver over current fault

Engine 3513 SCR Catalyst not present _Relation of temperature behavior between both Catalyst Temperatures not plausible

Engine 3517 Ambient Air Temperature Sensor failure (of Humidity Sensor) -Signal too high

Engine 3518 Ambient Air Temperature Sensor failure (of Humidity Sensor) -Signal too low

Engine 3519 Ambient Air Temperature Sensor failure (of Humidity Sensor) -CAN Signal failure

Engine 3521 NOx Estimation failure -Estimated Nox signal not reliable

Engine 3528 NOx Sensor Plausibility failure -Signal not plausible

Engine 3529 NOx Sensor Failure -Open Load

Engine 3530 NOx Sensor Failure -Short Circuit

Engine 3532 NOx Sensor Failure -Sensor not ready in time

Engine 3533 CAN Message timeout Nox (from Nox Sensor) -CAN timeout

Engine 3537 CAN Message timeout DM1DCU (from DCU) -CAN timeout

Engine 3541 CAN Message timeout SCR1 (from DCU) -CAN timeout

Engine 3545 Info: SCR Dosing Valve Overheat Protection -Torque Limitation Level2 for SCR Protection active

Engine 3546 Info: SCR Dosing Valve Overheat Protection -Torque Limitation Level1 for SCR Protection active

Engine 3549 Humidity Sensor Signal Ratio failure -Signal Ratio above Limit

Engine 3550 Humidity Sensor Signal Ratio failure -Signal Ratio below Limit

Engine 3555 CAN Message timeout SCR2 (from DCU)-CAN timeout

Engine 3557 Info: Humidity Sensor possibly saturated with water droplets -Signal Ratio above Limit

Engine 3558 Info: Humidity Sensor possibly saturated with water droplets -Signal Ratio below Limit

Engine 3561 NOx value not plausible (After treatment plausibility)

Engine 3565 Urea quality and urea warning level 1

Engine 3569 urea quality and urea warning level 2

Engine	3573	urea quality and urea warning level 3
Engine	3577	DM1DCU SPN1 message -Error in DCU active
Engine	3581	Performance limit active due to either stage -Performance Limitation active
EHR	4135	Rear Remote No.3 -Spool Deflection Excessive
EHR	4136	Rear Remote No.3 -Open Center Position Not Reached
EHR	4137	Rear Remote No.3 -Manual Operation
EHR	4138	Rear Remote No.3 -Output Stage Faulty
EHR	4139	Rear Remote No.3 -Position Transducer Faulty
EHR	4140	Rear Remote No.3 -Spool Cannot be Brought Back to Neutral
EHR	4141	Rear Remote No.3 -Spool Not in Neutral When Switched On
EHR	4142	Rear Remote No.4 -No EHR Control Messages
EHR	4143	Rear Remote No.4 -Implausible EHR Control Messages
EHR	4144	Rear Remote No.4 -Checksum Verification Failure
EHR	4145	Rear Remote No.4 -Neutral Set point
EHR	4146	Rear Remote No.4 -Under Voltage
EHR	4147	Rear Remote No.4 -Over Voltage
EHR	4148	Rear Remote No.4 -Spool Deflection Too Short
EHR	4149	Rear Remote No.4 -Spool Deflection Excessive
EHR	4150	Rear Remote No.4 -Open Center Position Not Reached
EHR	4151	Rear Remote No.4 -Manual Operation
EHR	4152	Rear Remote No.4 -Output Stage Faulty
EHR	4153	Rear Remote No.4 -Position Transducer Faulty
EHR	4154	Rear Remote No.4 -Spool Cannot be Brought Back to Neutral
EHR	4155	Rear Remote No.4 -Spool Not in Neutral When Switched On
EHR	4156	Rear Remote No.5 -No EHR Control Messages
EHR	4157	Rear Remote No.5 -Implausible EHR Control Messages
EHR	4158	Rear Remote No.5 -Checksum Verification Failure
EHR	4159	Rear Remote No.5 -Neutral Set point
EHR	4160	Rear Remote No.5 -Under Voltage

EHR	4161	Rear Remote No.5 _Over Voltage
EHR	4162	Rear Remote No.5 -Spool Deflection Too Short
EHR	4163	Rear Remote No.5 -Spool Deflection Excessive
EHR	4164	Rear Remote No.5 -Open Center Position Not Reached
EHR	4165	Rear Remote No.5 -Manual Operation
EHR	4166	Rear Remote No.5 -Output Stage Faulty
EHR	4167	Rear Remote No.5 -Position Transducer Faulty
EHR	4168	Rear Remote No.5 -Spool Cannot be Brought Back to Neutral
EHR	4169	Rear Remote No.5 -Spool Not in Neutral When Switched On
EHR	4170	Rear Remote No.1 _Lever Not Calibrated
EHR	4173	Rear Remote No.2 -Lever Not Calibrated
EHR	4177	Rear Remote No.3 -Lever Not Calibrated
EHR	4180	Rear Remote No.4 -Lever Not Calibrated
EHR	4190	EHR 1 Offline Err
EHR	4191	EHR 2 Offline Err
EHR	4192	EHR 3 Offline Err
EHR	4193	EHR 4 Offline Err
EHR	4198	EHR 5 Offline Err
EHR	4216	Rear Remote No.1 -Valve Spool Not Calibrated
EHR	4217	Rear Remote No.2 -Valve Spool Not Calibrated
EHR	4218	Rear Remote No.3 -Valve Spool Not Calibrated
EHR	4219	Rear Remote No.4 -Valve Spool Not Calibrated
EHR	4220	Rear Remote No.5 -Valve Spool Not Calibrated
EHR	4301	Rear Remote No.6 -No EHR Control Messages
EHR	4302	Rear Remote No.6 -Implausible EHR Control Messages
EHR	4303	Rear Remote No.6 -Checksum Verification Failure
EHR	4304	Rear Remote No.6 -Neutral Set point
EHR	4305	Rear Remote No.6 -Under Voltage
EHR	4306	Rear Remote No.6 -Over Voltage

EHR	4307	Rear Remote No.6 -Spool Deflection Too Short
EHR	4308	Rear Remote No.6 -Spool Deflection Excessive
EHR	4309	Rear Remote No.6 -Open Center Position Not Reached
EHR	4310	Rear Remote No.6 -Manual Operation
EHR	4311	Rear Remote No.6 -Output Stage Faulty
EHR	4312	Rear Remote No.6 -Position Transducer Faulty
EHR	4313	Rear Remote No.6 -Spool Cannot be Brought Back to Neutral
EHR	4314	Rear Remote No.6 -Spool Not in Neutral When Switched On
EHR	4315	Rear Remote No.7 -No EHR Control Messages
EHR	4316	Rear Remote No.7 -Implausible EHR Control Messages
EHR	4317	Rear Remote No.7 -Checksum Verification Failure
EHR	4318	Rear Remote No.7 -Neutral Set point
EHR	4319	Rear Remote No.7 -Under Voltage
EHR	4320	Rear Remote No.7 -Over Voltage
EHR	4321	Rear Remote No.7 -Spool Deflection Too Short
EHR	4322	Rear Remote No.7 -Spool Deflection Excessive
EHR	4323	Rear Remote No.7 -Open Center Position Not Reached
EHR	4324	Rear Remote No.7 -Manual Operation
EHR	4325	Rear Remote No.7 -Output Stage Faulty
EHR	4326	Rear Remote No.7 -Position Transducer Faulty
EHR	4327	Rear Remote No.7 -Spool Cannot be Brought Back to Neutral
EHR	4328	Rear Remote No.7 -Spool Not in Neutral When Switched On
EHR	4329	Rear Remote No.8 -No EHR Control Messages
EHR	4330	Rear Remote No.8 -Implausible EHR Control Messages
EHR	4331	Rear Remote No.8 -Checksum Verification Failure
EHR	4332	Rear Remote No.8 -Neutral Set point
EHR	4333	Rear Remote No.8 -Under Voltage
EHR	4334	Rear Remote No.8 -Over Voltage
EHR	4335	Rear Remote No.8 -Spool Deflection Too Short

EHR 4336 Rear Remote No.8 -Spool Deflection Excessive

EHR 4337 Rear Remote No.8 -Open Center Position Not Reached

EHR 4338 Rear Remote No.8 -Manual Operation

EHR 4339 Rear Remote No.8 -Output Stage Faulty

EHR 4330 Rear Remote No.8 -Position Transducer Faulty

EHR 4341 Rear Remote No.8 -Spool Cannot be Brought Back to Neutral

EHR 4342 Rear Remote No.8 -Spool Not in Neutral When Switched On

EHR 4343 Rear Remote No.5 -Lever Not Calibrated

EHR 4344 Rear Remote No.6 -Lever Not Calibrated

EHR 4345 Rear Remote No.7 -Lever Not Calibrated

EHR 4346 Rear Remote No.8 -Lever Not Calibrated

EHR 4347 EHR 6 Offline Err

EHR 4348 EHR 7 Offline Err

EHR 4349 EHR 8 Offline Err

EHR 4350 Rear Remote No.6 -Valve Spool Not Calibrated

EHR 4351 Rear Remote No.7 -Valve Spool Not Calibrated

EHR 4352 Rear Remote No.8 -Valve Spool Not Calibrated

EHR 4353 EHR FB 1High Err

EHR 4354 EHR FB 1 Low Err

EHR 4355 EHR FB 3 High Err

EHR 4356 EHR FB 3 Low Err

EHR 4357 EHR Implement Lower Error

EHR 4358 EHR Implement Raise Error

Rear PTO 5001 PTO cab switch, or Auto PTO switch, or PTO remote fender switch is on during tractor power up.

Rear PTO 5002 PTO switch interlock

Rear PTO 5003 Auto PTO switch data is set to the error state (CCH Only)

Rear PTO 5004 Auto PTO switch stuck on condition (CCH Only)

Rear PTO 5005 PTO remote fender switch short (CCH Only)

Rear PTO	5006	PTO remote fender switch open (CCH Only)
Rear PTO	5007	PTO remote fender switch stuck on (CCH Only)
Rear PTO	5008	Both PTO On and Off switches are simultaneously on. One of the PTO switches is short to 12 volts.
Rear PTO	5009	PTO solenoid open circuit or shorted to ground or AD12vs2 voltage is low.
Rear PTO	5010	PTO solenoid circuit shorted to B+ when PTO is in the off state.
Rear PTO	5011	Driver is on and no current is sensed.
Rear PTO	5012	PTO clutch is slipping excessively for the duration of 5 seconds or longer.
Rear PTO	5013	Engine speed is too low for the PTO to be in the ‘on’ state.
Rear PTO	5014	PTO is commanded off but the PTO speed greater than zero.
Rear PTO	5015	The software has not detected PTO shaft speed for greater than 3 seconds since the PTO initial fill vale was commanded
Rear PTO	5016	PTO speed is detected when the PTO is in the off state without engine RPM.
Rear PTO	5017	PTO clutch did not lock up after 6 seconds of clutch motion.
Rear PTO	5018	PTO speed sensors wiring swapped (CCH Only)
Rear PTO	5019	PTO is configured as a two speed and no shaft size frequency was detected when the PTO was switched on. (CCH Only)
Rear PTO	5020	PTO is configured as a single speed and the shaft size frequency was detected when the PTO was switched on. Shaft size frequency input is only used for two speeds PTO.(CCH Only)
Rear PTO	5021	Auto PTO disabled(CCH Only)
Rear PTO	5022	PTO switch is in the on position when the engine is off.
Rear PTO	5023	PTO clutch lube solenoid circuit shorted to B+ when PTO is in the off state.(4WD Only)
Rear PTO	5024	PTO clutch lube solenoid open circuit or shorted to ground or +12 VF3 voltage is low.(4WD Only)
Rear PTO	5025	Rear PTO
Rear PTO	5027	Low side of PTO solenoid connected permanently to GND
Rear PTO	5028	Clutch speed sensor open or short to Vbat

Rear PTO	5029	Clutch speed sensor short to GND
Rear PTO	5030	Shaft size speed sensor open or short to Vbat(CCH Only)
Rear PTO	5031	Shaft size speed sensor short to GND(CCH Only)
Rear PTO	5032	12VF3voltage supply is low. (possible blown fuse*)
MFD/Diff Lock	6001	MFD (CCH) or Front Diff Lock (4WD) solenoid failed. Possible Failure modes: 1. Solenoid coil failed 2. Damaged wiring 3. Loose connector or bent pin 4. TCU Internal failure
MFD/Diff Lock	6002	Rear Diff Lock solenoid failed. Possible Failure modes: 1. Diff Lock solenoid coil failed 2. Damaged wiring 3. Loose connector or bent pin 4. TCU Internal failure
MFD/Diff Lock	6003	Brake light relay fault. 1. Short to 12 volts 2. Open circuit or short to ground.
MFD/Diff Lock	6004	CAN-BUS indicating Rear Diff Lock Switch failed in the armrest. Possible failure modes: 1. Rear Diff Lock Switch failed in Armrest2. Auto Diff Lock Switch failed in Armrest (CCH Only) 3. Communication problems between the TCU controller and the Armrest controller
MFD/Diff Lock	6005	Rear Differential Lock and Auto Differential Lock (Only CCH):1. Diff Lock On and Auto Diff Lock switches are both active
MFD/Diff Lock	6006	CAN-BUS indicating MFD (CCH) or Front Diff Lock (4WD)Switch failed in the armrest. Possible failure modes: 1. MFD (CCH) or Front Diff Lock (4WD)failed in Armrest2. Auto MFD Switch failed in Armrest, (CCH). 3. Communication problems between the TCU controller and the Armrest
MFD/Diff Lock	6007	Both MFD and Auto MFD switches active fault
MFD/Diff Lock	6008	Steering angle sensor above maximum voltage limit.
MFD/Diff Lock	6009	Steering angle sensor below minimum voltage limit.
MFD/Diff Lock	6010	12VS1voltage supply is low. (possible blown fuse*)
MFD/Diff Lock	6011	12VS2 voltage supply is low. (possible blown fuse*)
Front PTO	8001	Front PTO cab switch is on during tractor power up.
Front PTO	8002	Front PTO cab switch open
Front PTO	8003	Front PTO cab switch short
Front PTO	8004	Front PTO solenoid open circuit or shorted to ground or AD12VU2 voltage is low.
Front PTO	8005	Front PTO solenoid circuit shorted to B+ when Front PTO is in the off state.

Front PTO	8006	Low side driver is stuck on and no current is sensed.
Front PTO	8007	Front PTO switch is in the on position when the engine is off.
Front PTO	8010	12VU2voltage supply is low. (possible blown fuse*)
Front Suspension	10001	Front suspension Pump Not tank Valve solenoid is open circuit or shorted to ground
Front Suspension	10002	Front suspension rod Side Valve solenoid is open circuit or shorted to ground
Front Suspension	10003	Front suspension piston Side Valve solenoid is open circuit or shorted to ground
Front Suspension	10004	Front Suspension Position sensor out of Range High Error
Front Suspension	10005	Front Suspension Position sensor out of Range Low Error
Front Suspension	10006	Front suspension will not raise error
Front Suspension	10007	Front Suspension will not Lower error
Front Suspension	10008	Front Suspension Piston Pressure transducer range high error
Front Suspension	10009	Front Suspension Piston Pressure transducer range lower error
Front Suspension	10010	Front Suspension Rod Pressure transducer range high error
Front Suspension	10011	Front Suspension Rod Pressure transducer range lower error
Front Suspension	10012	Front suspension Rod side pressure will not raise error
Front Suspension	10013	Front suspension piston side pressure will not raise error
Front Suspension	10014	Front Suspension Not calibrated error
Front Suspension	10015	Front suspension Lock Valve Solenoid is open circuit or is shorted to ground.
Front Suspension	10016	FSUS_ENABLE_SW_ERR 10016
Front Suspension	10017	FSUS_ENABLE_SW_NA_ERR10017
Front Suspension	10018	Front Suspension Pump not tank Solenoid over current
Front Suspension	10019	Front Suspension rod Side Solenoid over current
Front Suspension	10020	Front Suspension piston Solenoid over current
Front Suspension	10021	Front Suspension lock out Solenoid over current
Front Suspension	10022	12VM voltage supply is low. (possible blown fuse*)
Front Suspension	10023	12VF3 voltage supply is low. (possible blown fuse*)

Front Suspension 10024 12VF1 voltage supply is low. (possible blown fuse*)

ICU 14002 Trans oil filter switch closed to ground on power up.

ICU 14003 Hyd oil filter switch closed to ground on power up.

ICU 14005 PTO shaft speed data is _ERROR_ or _NOT AVAILABLE_ state from PTO.

ICU 14006 GOV ENGINE speed data is _ERROR_ or _NOT AVAILABLE_ state from GOV.

ICU 14007 Engine Over speeding

ICU 14008 ENGINE oil pressure data is _ERROR_ or _NOT AVAILABLE_ state from GOV.

ICU 14009 Loss of valid ENGINE Hours

ICU 14010 PTO controller off line

ICU 14011 Communications Lost with Vehicle Data Bus 1 and ALL other controllers

ICU 14013 TRANSMISSION Off Line

ICU 14014 ENGINE coolant temperature data is _ERROR_ or _NOT AVAILABLE_ state from GOV.

ICU 14015 Engine Intake Air Temperature data is _ERROR|| or _NOT AVAILABLE|| state from GOV.

ICU 14016 Engine shutdown activated

ICU 14017 Fuel Level Sensor voltage out of range low.

ICU 14018 GOV Off Line

ICU 14019 ATC Off Line

Armrest 18001 Hand throttle #1 -voltage too low (New Holland Only)

Armrest 18002 Hand throttle #1 -voltage too high (New Holland Only)

Armrest 18003 Hand throttle #2 -voltage too low

Armrest 18004 Hand throttle #2 -voltage too high

Armrest 18005 Engine droop control -voltage too low

Armrest 18006 Engine droop control -voltage too high

Armrest 18007 Multi-function handle -switch error

Armrest 18008 Multi-function handle -voltage too low

Armrest 18009 Multi-function handle -voltage too high

Armrest 18010 Powershift throttle -voltage too low (Case IH)

Armrest 18011 Powershift throttle -voltage too high (Case IH)

Armrest 18012 CVT mode switch error

Armrest 18013 Multi-function handle -encoder position error

Armrest 18014 Rear hitch position control potentiometer -voltage too low

Armrest 18015 Rear hitch position control potentiometer -voltage too high

Armrest 18016 Rear hitch draft control potentiometer -voltage too low

Armrest 18017 Rear hitch draft control potentiometer -voltage too high

Armrest 18018 Rear hitch height limit potentiometer -voltage too low

Armrest 18019 Rear hitch height limit potentiometer -voltage too high

Armrest 18020 Rear hitch drop rate potentiometer -voltage too low

Armrest 18021 Rear hitch drop rate potentiometer -voltage too high

Armrest 18022 Rear hitch sensitivity control potentiometer -voltage too low

Armrest 18023 Rear hitch sensitivity control potentiometer -voltage too high

Armrest 18024 EHR flow encoder position error

Armrest 18025 Rear hitch slip control potentiometer -voltage too low

Armrest 18026 Rear hitch slip control potentiometer -voltage too high

Armrest 18027 EHR 5 lever position -voltage too low (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18028 EHR 5 lever position -voltage too high (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18029 EHR 6 lever position -voltage too low (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18030 EHR 6 lever position -voltage too high (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18031 Front hitch position / pressure control potentiometer -voltage too high

Armrest 18032 Front hitch position / pressure control potentiometer -voltage too low

Armrest 18033 Front hitch position / pressure mix potentiometer -voltage too high

Armrest 18034 Front hitch position / pressure mix potentiometer -voltage too low

Armrest 18035 Front hitch position height limit potentiometer -voltage too high

Armrest 18036 Front hitch position height limit potentiometer -voltage too low

Armrest 18037 Front hitch height limit enable switch error

Armrest 18038 Front hitch position drop rate potentiometer -voltage too high

Armrest 18039 Front hitch position drop rate potentiometer -voltage too low

Armrest 18040 EHR 1 lever position -voltage too low

Armrest 18041 EHR 1 lever position -voltage too high

Armrest 18042 EHR 2 lever position -voltage too low

Armrest 18043 EHR 2 lever position -voltage too high

Armrest 18044 EHR 3 lever position -voltage too low

Armrest 18045 EHR 3 lever position -voltage too high

Armrest 18046 EHR float control switch error

Armrest 18047 EHR 4 lever position -voltage too low

Armrest 18048 EHR 4 lever position -voltage too high

Armrest 18049 Joystick 1 X-axis position -voltage too low

Armrest 18050 Joystick 1 X-axis position -voltage too high

Armrest 18051 Joystick 1 Y-axis position -voltage too low

Armrest 18052 Joystick 1 Y-axis position -voltage too high

Armrest 18053 Joystick 1 proportional rocker switch -voltage too low

Armrest 18054 Joystick 1 proportional rocker switch -voltage too high

Armrest 18055 Joystick 2 X-axis position -voltage too low (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18056 Joystick 2 X-axis position -voltage too high (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18057 Joystick 2 Y-axis position -voltage too low (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18058 Joystick 2 Y-axis position -voltage too high (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18059 Joystick 2 proportional rocker switch -voltage too low (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18060 Joystick 2 proportional rocker switch -voltage too high (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18061 Reference voltage _short circuit to 0V

Armrest 18062 Reference voltage _short circuit to 12V

Armrest 18063 EEPROM fault

Armrest 18064 MFH communication error

Armrest 18065 MFH basic assurance test error

Armrest 18066 EHR 1 lever implausibility error

Armrest 18067 EHR 2 lever implausibility error

Armrest 18068 EHR 3 lever implausibility error

Armrest 18069 EHR 4 lever implausibility error

Armrest 18070 EHR 5 lever implausibility error (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18071 EHR 6 lever implausibility error (not applicable to CCM/APH _it may indicate incorrect configuration of the ACM)

Armrest 18072 EDC mouse raise/work switch fault (NH Only)

DCU 19001 Battery voltage sensing (electrical) _signal high _P0563 Battery voltage evaluation above upper limit

DCU 19002 Battery voltage sensing (electrical) | signal low | P0562 Battery voltage evaluation below lower limit

DCU 19010 Temperature sensor after catalyst (electrical) _signal high _P042D Catalyst Temperature Sensor Circuit High

DCU 19011 Temperature sensor after catalyst (electrical) | signal low | P042C Catalyst Temperature Sensor Circuit Low

DCU 19019 Temperature sensor before catalyst (electrical) _signal high _P0428 Catalyst Temperature Sensor Circuit High

DCU 19020 Temperature sensor before catalyst (electrical) | signal low | P0427 Catalyst Temperature Sensor Circuit Low

DCU 19037 Sensor supply 2 (5V internal; for UREA pressure sensors) _Supply Voltage too high _P204D Reagent -pressure sensor -short circuit high

DCU 19038 Sensor supply 2 (5V internal; for UREA pressure sensors) | Supply voltage too low | P204C Reagent -pressure sensor -short circuit low

DCU 19046 UREA pressure sensor in box (electrical) | supply voltage error | P204A Reagent -pressure sensor -open circuit

DCU 19047 UREA pressure sensor in box (electrical) _signal high _P204D Reagent -pressure sensor -short circuit high

DCU 19048 UREA pressure sensor in box (electrical) | signal low | P204C Reagent - pressure sensor -short circuit low

DCU 19055 UREA Temperature sensor in box (electrical) _high signal _P2045 Reagent - temperature sensor of pump module -short circuit high

DCU 19056 UREA Temperature sensor in box (electrical) | signal low | P2044 Reagent - temperature sensor of pump module -short circuit low

DCU 19064 Voltage supply internal heaters 1 (UB1) electrical | Open circuit to UB1 | P20C5 Pump module - Internal heating -open circuit

DCU 19065 Voltage supply internal heaters 1 (UB1) electrical | Short to bat at UB1 with Key 15 off | P20C8 Pump module -Internal heating -short circuit high

DCU 19073 Voltage supply 2 -tube heaters (UB2) electrical | Short to bat at UB2 with Key 15 off | P20C4 Reagent -suction tube heating -short circuit high

DCU 19074 Voltage supply 2 -tube heaters (UB2) electrical | Open circuit to UB2 | P20C1 Reagent -suction tube heating -open circuit

DCU 19075 Voltage supply 2 -tube heaters (UB2) electrical | Short circuit to Ground UB2 | P20C3 Reagent - suction tube heating -short circuit low

DCU 19082 Voltage supply 3 -Coolant control valve and reverting valve (UB3) electrical | Short to bat at UB3 with Key 15 off | P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high

DCU 19083 Voltage supply 3 -Coolant control valve and reverting valve (UB3) electrical | Open circuit to UB3 | P20A0 Vent valve (Reductant Purge Control Valve) -open circuit

DCU 19084 Voltage supply 3 -Coolant control valve and reverting valve (UB3) electrical | Short circuit to Ground UB3 | P20A2 Vent valve (Reductant Purge Control Valve) -short circuit low

DCU 19091 Monitoring VDD11 voltage -Dosing valve | supply voltage low | P0658 12 Volt supply for dosing module -below lower limit

DCU 19092 Monitoring VDD11 voltage-Dosing valve _supply voltage high _P0659 12 Volt supply for dosing module -above upper limit

DCU 19100 UREA level sensor (electrical) | supply voltage error | P203E Reductant Level Sensor -Circuit Intermittent/Erratic

DCU 19101 UREA level sensor (electrical) _signal high _P203D Reagent -tank level sensor -short circuit high

DCU 19102 UREA level sensor (electrical) | signal low | P203C Reagent -tank level sensor -short circuit low

DCU 19109 UREA Temperature sensor in Tank (electrical) _signal high _P205D Reagent - tank temperature sensor (temperature of the Reagent -solution in the tank) -short circuit high

DCU 19110 UREA Temperature sensor in Tank (electrical) | signal low | P205C Reagent -tank temperature sensor (temperature of the Reagent -solution in the tank) -short circuit low

DCU 19145 Dosing Valve (electrical) | short circuit to batt + | P2049 Reductant Injector -circuit high

DCU 19146 Dosing Valve (electrical) | short circuit to ground | P2048 Reductant Injector -circuit low

DCU 18147 Dosing Valve (electrical) | open load | P2047 Reductant Injector -circuit open

DCU 19148 Dosing Valve (electrical) | Dosing valve permanent 'ON' (detection via fast decay) | P209B Reagent-dosing nozzle pressure too high

DCU 19154 UREA Pump speed | pump motor unplugged | P208B Reagent-pump not delivering

DCU 19155 UREA Pump speed _pump motor blocked _P208A Reagent-pump

DCU 19156 UREA Pump speed | pump overspeed | P208D Reagent-pump over speed

DCU 19157 UREA Pump speed | Hall sensors defect | P208B Reagent-pump not delivering

DCU 19163 Cooling control valve short circuit to UBat or open load | short circuit to battery | P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high

DCU 19164 Cooling control valve short circuit to UBat or open load | Open load | P20A0 Vent valve (Reductant Purge Control Valve) -open circuit

DCU 19172 Cooling control valve short circuit to ground | short circuit to ground | P20A2 Vent valve (Reductant Purge Control Valve) -short circuit low

DCU 19181 Reverting valve (4-2way valve?) electrically | Short circuit to battery | P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high

DCU 19182 Reverting valve (4-2way valve?) electrically | Short circuit to ground | P20A2 Vent valve (Reductant Purge Control Valve) -short circuit low

DCU 19183 Reverting valve (4-2way valve?) electrically | Open load | P20A0 Vent valve (Reductant Purge Control Valve) -open circuit

DCU 19262 Tank heating Valve | Short circuit to battery | P20B4 Reagent -tank heating valve -short circuit high

DCU 19263 Tank heating Valve | Short circuit to ground | P20B3 Reagent -tank heating valve -short circuit low

DCU 19264 Tank heating Valve | Open load | P20B1 Reagent -tank heating valve -open circuit

DCU 19289 Temperature after catalyst too low | Downstream catalyst temp -physical (Catalyst heating time failed) | P042B Catalyst Temperature Sensor Circuit Range/Performance

DCU 19298 UREA pressure too low at system start | UREA pressure too low at system start | P208B Reagent pump not delivering

DCU 19307 UREA pressure too high | Urea pressure not plausible (urea pressure too high) | P204B Reagent -pressure above threshold

DCU 19316 UREA Temperature in Pump Module out of range | Urea temperature box -physical (Urea Box Temp NOT OK: outside range) | P2043 Reagent-temperature sensor of pump module out of range

DCU 19325 UREA Temperature in Tank out of range | Urea temperature tank -physical (Urea Tank Temp NOT OK: outside range) | P205B Reagent -tank temperature sensor (temperature of the Reagent -solution in the tank) out of range

DCU 19334 System frozen and not free in time _Defreezing Mode and Detection Errors (Inlet line defreezing failed) _P20C2 Reagent -suction tube heating -detection mode of heating

DCU 19335 System frozen and not free in time | Defreezing Mode and Detection Errors (pressure line defreezing failed) | P20BE Reagent -pressure tube heating -detection mode of heating

DCU 19336 System frozen and not free in time | Defreezing Mode and Detection Errors (pressure build-up in detection mode failed)| P20C5 Pump module -Internal heating -open circuit

DCU 19337 System frozen and not free in time | Defreezing Mode and Detection Errors (Back-flow line defreezing failed) | P20B9 Reagent -backflow tube heating -open circuit

DCU 19343 Coolant control valve mechanically | mechanical defective blocked open | P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high

DCU 19344 Coolant control valve mechanically _mechanical defective blocked closed _P20A0 Vent valve (Reductant Purge Control Valve) -open circuit

DCU 19352 Reverting valve (4-2way valve?) mechanically | valve does not open | P20A0 Vent valve (Reductant Purge Control Valve) -open circuit

DCU 19361 Battery Voltage (actual value) | High battery voltage | P0562 Battery voltage evaluation -below lower limit

DCU 19362 Battery Voltage (actual value) _Low battery voltage _P0563 Battery voltage evaluation -above upper limit

DCU 19370 UREA pressure too low (in ‘commissioning’ status) | Pump motor error during commissioning (pump not delivering) | P208B Reagent-pump not delivering

DCU 19379 UREA Temperature too low during commissioning | Temperatures not plausible during commissioning.

DCU 19415 Empty UREA Tank _urea tank empty _P203F Reagent -fluid level in tank -too low

DCU 19532 Back flow line clogged | P2063 Reagent -dosing valve -short circuit low

DCU 19541 Coolant control valve mechanically | Blocked closed | P20A1 Vent valve test plausibility test (startup)

DCU 19550 Pressure line blocked | pressure line blocked | P209B Reagent -dosing nozzle -pressure too high

DCU 19559 Low UREA level 1 (warning) -UREA level below Limit 1 -P203F Reagent -fluid level in tank -too low

DCU 19568 Low UREA level 2 (warning) -UREA level below Limit 2 -P203F Reagent -fluid level in tank -too low

DCU 19577 CAN receive frame E2SCR (Dosing, Exh gas flow, Exh gas temp, Error Suppression, Heater, Long Term failure) | SAE J1939 Check for CAN receive signal : (UREA quantity not in range) | P0600

DCU 19578 CAN receive frame E2SCR (Dosing, Exh gas flow, Exh gas temp, Error Suppression, Heater, Long Term failure) | SAE J1939 Check for CAN receive signal : (Dosing status not in range) | P0600 Serial Communication Link

DCU 19579 CAN receive frame E2SCR (Dosing, Exh gas flow, Exh gas temp, Error Suppression, Heater, Long Term failure) _timeout _P0600 Serial Communication Link

DCU 19580 CAN receive frame E2SCR (Dosing, Exh gas flow, Exh gas temp, Error Suppression, Heater, Long Term failure) | too many CAN messages | P0600 Serial Communication Link

DCU 19581 CAN receive frame E2SCR (Dosing, Exh gas flow, Exh gas temp, Error Suppression, Heater, Long Term failure) _SAE J1939 Check for CAN receive signal _P0600 Serial Communication Link

DCU 19595 CAN receive frame EEC1 (Driver demand, eng speed, eng torque) | SAE J1939 Check for CAN receive signal : (Engine torque not in range) | P0600 Serial Communication Link

DCU 19596 CAN receive frame EEC1 (Driver demand, eng speed, eng torque) | SAE J1939 Check for CAN receive signal : (Engine speed not in range) | P0600 Serial Communication Link

DCU 19597 CAN receive frame EEC1 (Driver demand, eng speed, eng torque) _timeout _P0600 Serial Communication Link

DCU 19598 CAN receive frame EEC1 (Driver demand, eng speed, eng torque) | too many CAN messages _ ‘P0600 Serial Communication Link

DCU 19599 CAN receive frame EEC1 (Driver demand, eng speed, eng torque) | SAE J1939 Check for CAN receive signal : (Torque driver demand not in range) | P0600 Serial Communication Link

DCU 19604 CAN receive frame ET1 (Oil and Water temp engine) | SAE J1939 Check for CAN receive signal : (Oil temperature not in range) | P0600 Serial Communication Link

DCU 19605 CAN receive frame ET1 (Oil and Water temp engine) _timeout _P0600 Serial Communication Link

DCU 19606 CAN receive frame ET1 (Oil and Water temp engine) | too many CAN messages | P0600 Serial Communication Link

DCU 19607 CAN receive frame ET1 (Oil and Water temp engine) | SAE J1939 Check for CAN receive signal : (Water temperature not in range) | P0600 Serial Communication Link

DCU 19649 UREA Tank level error (CAN message or electrical with real sensor) | Level over CAN: SAE J1939 no Signal available Level sensor connected directly: Sensor Supply error | P203A Reagent -tank level sensor -open circuit

DCU 19650 UREA Tank level error (CAN message or electrical with real sensor) _Level over CAN: SAE J1939 Signal Not in Range Level sensor connected directly: SRC high _P203D Reagent -tank level sensor -short circuit high

DCU 19651 UREA Tank level error (CAN message or electrical with real sensor) | Level over CAN: SAE J1939 Erroneous Signal Level sensor connected directly: SRC low | P203C Reagent -tank level sensor - short circuit low

DCU 19676 Ambient Temperature: SAE J1939 Check for CAN receive signal : (Signal Range Check: Signal not in range / Erroneous Signal / Signal not available) | SAE J1939 Check for CAN receive signal : (Ambient air temperature not in range) | P0600 Serial Communication Link

DCU 19677 Ambient Temperature: SAE J1939 Check for CAN receive signal : (Signal Range Check: Signal not in range / Erroneous Signal / Signal not available) _timeout _P0071 Ambient Air Temperature Sensor Range/Performance

DCU 19678 Ambient Temperature: SAE J1939 Check for CAN receive signal : (Signal Range Check: Signal notin range / Erroneous Signal / Signal not available) | too many CAN messages | P0071 Ambient Air Temperature Sensor Range/Performance

DCU 19679 Ambient Temperature: SAE J1939 Check for CAN receive signal : (Signal Range Check: Signal not in range / Erroneous Signal / Signal not available) | SAE J1939 Check for CAN receive signal : (Barometric pressure not in range) | P0071 Ambient Air Temperature Sensor Range/Performance

DCU 19721 EEPROM / Checksum failures | EEPROM write error | P062F Internal Control Module EEPROM Error

DCU 19722 EEPROM / Checksum failures | No corresponding variant number error | P062F Internal Control Module EEPROM Error

DCU 19723 EEPROM / Checksum failures | EEPROM communication error | P062F Internal Control Module EEPROM Error

DCU 19724 EEPROM / Checksum failures _EEPROM Detection error OR ‘Codierwort error | P062F Internal Control Module EEPROM Error

DCU 19725 EEPROM / Checksum failures | Wrong EEPROM size | P062F Internal Control Module EEPROM Error

DCU 19730 Ignition ‘on’ signal K15 | digital input ignition ON not sensed during initialization | P2530 Ignition switch -plausibility error

DCU 19739 Main Relay opens too early / too late | main relay shut off too late | P0687 ECM/PCM Power Relay Control Circuit High

DCU 19740 Main Relay opens too early / too late | main relay short circuit | P0685 ECM/PCM Power Relay Control Circuit /Open

DCU 19741 Main Relay opens too early / too late | main relay open circuit | P0687 ECM/PCM Power Relay Control Circuit High

DCU 19742 Main Relay opens too early / too late _main relay shut off too early (before EEPROM update) _ P0685 ECM/PCM Power Relay Control Circuit /Open

DCU 19748 Too high UREA Temperature in Pump module or Leakage test failed (Emergency shut off) _over temperature detection (urea temp. in pump module) _P2043 Reagent -temperature sensor of pump module -Out of range

DCU 19749 Too high UREA Temperature in Pump module or Leakage test failed (Emergency shut off) | urea leakage detection (static or dynamic) | P202D Dynamic urea leakage test -Leakage detected

DCU 19757 Group error path UREA injection control _Error belonging to group UREA Injection control _ P208B Reagent-pump -Not delivering

DCU 19766 Group error path Air control _Error belonging to group air control _P20A7 Compressed air regulation valve

DCU 19775 Group error path catalyst temperature _Error belonging to group catalyst temperature out of range _P0426 Plausibility of catalyst temperature sensors -Plausibility error (static)

DCU 19784 Group error path NOx exceeded _Error belonging to group NOx exceeded active _P2000 Nox Trap Efficiency Below Threshold

DCU 19793 Group error path UREA Tank empty _Error belonging to group UREA tank empty active _P203F Reagent -fluid level in tank -Too low

DCU 19999 Unknown DCU15 fault code

New Holland 1002 Radar disconnected

New Holland 1003 Speed sensor error

New Holland 1004 Speed sensor signal too High

New Holland	1005	Speed sensor signal too High
New Holland	1006	Slip control potentiometer signal too low
New Holland	1007	Slip control potentiometer signal too High
New Holland	1008	Raise / work switch failure
New Holland	1009	Both external switches operated at the same time
New Holland	1010	Height limit potentiometer signal too low
New Holland	1011	Height limit potentiometer signal too high
New Holland	1012	Drop rate potentiometer signal too low
New Holland	1013	Drop rate potentiometer signal too high
New Holland	1014	R/H load sensing pin signal too low
New Holland	1015	R/H load sensing pin signal too high
New Holland	1016	L/H load sensing pin signal too low
New Holland	1017	L/H load sensing pin signal too high
New Holland	1018	Both load sensing pin disconnected
New Holland	1019	Load sensing pin voltage too low
New Holland	1020	Load sensing pin voltage too high
New Holland	1021	Position / draft control potentiometer too low
New Holland	1022	Position / draft control potentiometer too high
New Holland	1023	Control panel disconnected
New Holland	1024	Perform Hydraulic Lift Autocalibration
New Holland	1025	Mouse lift lever potentiometer signal too low
New Holland	1026	Mouse lift lever potentiometer signal too high
New Holland	1027	Maximum Lift arm position potentiometer too low
New Holland	1028	Maximum Lift arm position potentiometer too high
New Holland	1029	Hydraulic Control valve disconnected
New Holland	1030	Ground signal open circuit (not used)
New Holland	1031	Chassis Harness Disconnected
New Holland	1032	Draft Load potentiometer shorted to +12v
New Holland	1033	Draft Load potentiometer open circuit

New Holland	1049	Wheel speed sensor open circuit
New Holland	1053	5 volt reference Short to +12v
New Holland	1054	5 volt reference Short to ground.
New Holland	1057	Module Failure (not used)
New Holland	1059	5 volt reference Open circuit (not used)
New Holland	1063	Lower solenoid open circuit
New Holland	1064	Raise solenoid open circuit
New Holland	1065	lower solenoid short circuit
New Holland	1066	Raise solenoid short circuit
New Holland	1067	EDC Hydraulic Valve supply too low
New Holland	1068	Height limit Calibration Error
New Holland	2001	'N' - Shuttle too fast error
New Holland	2002	Flash N error
New Holland	2003	'CP' - Clutch pedal required
New Holland	2004	'P' - Handbrake error
New Holland	2005	Creeper selection error
New Holland	2011	Clutch Pedal Potentiometer Signal too Low
New Holland	2012	Clutch Pedal Potentiometer Signal too High
New Holland	2013	Up and Down buttons at same time
New Holland	2014	Switch 4 / 5 error (not used)
New Holland	2015	HI / LO shift lever switches both closed
New Holland	2016	Creeper Solenoid Short circuit
New Holland	2021	Chassis Harness Error
New Holland	2024	Synchro clutches not calibrated
New Holland	2026	Engine speed too high
New Holland	2027	Engine speed too low
New Holland	2035	Dump solenoid circuit fault
New Holland	2036	Dump solenoid open circuit
New Holland	2037	Clutch Pedal switch open circuit

New Holland	2038	Clutch 4 solenoid short circuit
New Holland	2039	Clutch 4 solenoid open circuit
New Holland	2040	Clutch 3 solenoid short circuit
New Holland	2041	Clutch 3 solenoid open circuit
New Holland	2042	Clutch 2 solenoid short circuit
New Holland	2043	Clutch 2 solenoid open circuit
New Holland	2044	Clutch 1 solenoid short circuit
New Holland	2045	Clutch 1 solenoid open circuit
New Holland	2046	Fuse 12 open circuit (not used)
New Holland	2047	Clutch pedal switch set too High
New Holland	2048	Clutch pedal switch set too Low
New Holland	2049	Wheel speed sensor short or open
New Holland	2051	Oil temperature sensor open circuit
New Holland	2052	Oil temperature sensor short circuit
New Holland	2053	5 Volt Potentiometer Supply too High
New Holland	2054	5 Volt Potentiometer Supply too Low
New Holland	2055	No signal from wheel speed sensor
New Holland	2056	Low Range switch open
New Holland	2057	High Range switch open
New Holland	2058	Seat switch closed for 25 hours
New Holland	2059	Shuttle Lever switch disagree
New Holland	2060	Synchro Fwd no longer engaged
New Holland	2061	F/R Synchro Potentiometer signal too high
New Holland	2062	F/R Synchro Potentiometer signal too low
New Holland	2063	Synchro not moving to forward
New Holland	2064	Synchro not moving to reverse
New Holland	2065	Forward solenoid open circuit
New Holland	2066	Reverse solenoid open circuit
New Holland	2067	Forward solenoid circuit fault

New Holland	2068	Reverse solenoid circuit fault
New Holland	2069	Synchro reverse no longer engaged
New Holland	2070	Voltage with lever in forward too high
New Holland	2071	Voltage with lever in forward too low
New Holland	2072	Voltage with lever in reverse too high
New Holland	2073	Voltage with lever in reverse too low
New Holland	2075	Flywheel Speed Sensor Frequency is too high
New Holland	2075	Any period is too short, under 400 microseconds
New Holland	2075	Any short period is longer than the corresponding long period
New Holland	2075	Damper angle is below 50 degrees or above 85 degrees
New Holland	2075	Calculated torque exceeds calibrated peak torque by more than 25%
New Holland	2075	No usable signals from the flywheel sensor, and ERPM is greater than 300
New Holland	2076	Flywheel Speed Sensor open circuit
New Holland	2077	Flywheel Speed Sensor short circuit
New Holland	2080	Synchro 4 no longer engaged
New Holland	2081	4/5 Synchro Potentiometer signal too high
New Holland	2082	4/5 Synchro Potentiometer signal too low
New Holland	2083	Synchro 4 engaged error
New Holland	2084	Synchro 5 engaged error
New Holland	2085	Synchro 4 solenoid open circuit
New Holland	2086	Synchro 5 solenoid open circuit
New Holland	2087	Synchro 4 solenoid short to 12v
New Holland	2088	Synchro 5 solenoid short to 12v
New Holland	2089	Synchro 5 no longer engaged
New Holland	2090	Output speed too high in creeper
New Holland	2091	C3 Clutch not calibrated
New Holland	2092	C4 Clutch not calibrated
New Holland	2093	High Clutch not calibrated

New Holland	2094	Low Clutch not calibrated
New Holland	2095	C1 Clutch not calibrated
New Holland	2096	C2 Clutch not calibrated
New Holland	2097	Clutch 5 not calibrated
New Holland	2098	C5 solenoid short to 12v
New Holland	2099	C5 open circuit
New Holland	2100	C5 dump solenoid short to 12v
New Holland	2101	C5 dump solenoid open circuit
New Holland	2124	Flywheel Torque Sensor not calibrated
New Holland	2199	Creeper option not enabled
New Holland	3001	Accelerator Pedal Signal - NOT PLAUSIBLE
New Holland	3002	Accelerator Pedal Signal - SOURCE HIGH
New Holland	3003	Accelerator Pedal Signal - SOURCE LOW
New Holland	3004	Accelerator Pedal Signal - NO SIGNAL
New Holland	3005	Accelerator Pedal Signal - ALL OTHER FAULTS
New Holland	3006	Coolant Temperature Signal - ABOVE NORMAL
New Holland	3007	Coolant Temperature Signal - SOURCE HIGH
New Holland	3008	Coolant Temperature Signal - SOURCE LOW
New Holland	3009	Coolant Temperature Signal - NO SIGNAL
New Holland	3010	Air (boost) Temperature Signal - SOURCE HIGH
New Holland	3011	Air (boost) Temperature Signal - SOURCE LOW
New Holland	3012	Air (boost) Temperature Signal - NO SIGNAL
New Holland	3014	Fuel Temperature Signal - ABOVE NORMAL
New Holland	3015	Fuel Temperature Signal - SOURCE HIGH
New Holland	3016	Fuel Temperature Signal - SOURCE LOW
New Holland	3017	Fuel Temperature Signal - NO SIGNAL
New Holland	3018	Boost Pressure Signal - ABOVE NORMAL
New Holland	3019	Boost Pressure Signal - SOURCE HIGH
New Holland	3020	Boost Pressure Signal - SOURCE LOW

New Holland	3021	Boost Pressure Signal - NO SIGNAL
New Holland	3022	Boost Pressure Signal - ALL OTHER FAULTS
New Holland	3023	Atmospheric Pressure Signal - ABOVE NORMAL
New Holland	3024	Atmospheric Pressure Signal - SOURCE HIGH
New Holland	3025	Atmospheric Pressure Signal - SOURCE LOW
New Holland	3026	Atmospheric Pressure Signal - NO SIGNAL
New Holland	3027	Oil Pressure Signal - ABOVE NORMAL
New Holland	3028	Oil Pressure Signal - BELOW NORMAL
New Holland	3029	Oil Pressure Signal - SOURCE HIGH
New Holland	3030	Oil Pressure Signal - SOURCE LOW
New Holland	3031	Oil Pressure Signal - NO SIGNAL
New Holland	3032	Oil Pressure Signal - ALL OTHER FAULTS
New Holland	3033	Oil Temperature Signal - ABOVE NORMAL
New Holland	3034	Oil Temperature Signal - SOURCE HIGH
New Holland	3035	Oil Temperature Signal - SOURCE LOW
New Holland	3036	Oil Temperature Signal - NO SIGNAL
New Holland	3037	Power stage Fuel filter heater - SOURCE HIGH
New Holland	3038	Power stage Fuel filter heater - SOURCE LOW
New Holland	3039	Power stage Fuel filter heater - NO SIGNAL
New Holland	3040	HS Power stage cold start heater relay - SOURCE HIGH
New Holland	3041	HS Power stage cold start heater relay - SOURCE LOW
New Holland	3042	HS Power stage cold start heater relay - NO SIGNAL
New Holland	3043	Adapt.cylinder balancing Cylinder 1 - SOURCE HIGH
New Holland	3044	Adapt.cylinder balancing Cylinder 5 - SOURCE HIGH
New Holland	3045	Adapt.cylinder balancing Cylinder 3 - SOURCE HIGH
New Holland	3046	Adapt.cylinder balancing Cylinder 6 - SOURCE HIGH
New Holland	3047	Adapt.cylinder balancing Cylinder 2 - SOURCE HIGH
New Holland	3048	Adapt.cylinder balancing Cylinder 4 - SOURCE HIGH
New Holland	3049	Battery voltage signal - ABOVE NORMAL

New Holland	3050	Battery voltage signal - BELOW NORMAL
New Holland	3051	Battery voltage signal - SOURCE HIGH
New Holland	3052	Battery voltage signal - SOURCE LOW
New Holland	3053	LS Power stage cold start lamp - SOURCE HIGH
New Holland	3054	LS Power stage cold start lamp - SOURCE LOW
New Holland	3055	LS Power stage cold start lamp - NO SIGNAL
New Holland	3056	Cold start heater monitoring - BELOW NORMAL
New Holland	3057	Cold start heater monitoring - NOT PLAUSIBLE
New Holland	3058	Cold start heater monitoring - SOURCE LOW
New Holland	3059	Cold start heater monitoring - NO SIGNAL
New Holland	3060	Injector solenoid valve Cylinder 1 - NOT PLAUSIBLE
New Holland	3061	Injector solenoid valve Cylinder 1 - SOURCE HIGH
New Holland	3062	Injector solenoid valve Cylinder 1 - SOURCE LOW
New Holland	3063	Injector solenoid valve Cylinder 1 - NO SIGNAL
New Holland	3064	Injector solenoid valve Cylinder 5 - NOT PLAUSIBLE
New Holland	3065	Injector solenoid valve Cylinder 5 - SOURCE HIGH
New Holland	3066	Injector solenoid valve Cylinder 5 - SOURCE LOW
New Holland	3067	Injector solenoid valve Cylinder 5 - NO SIGNAL
New Holland	3068	Injector solenoid valve Cylinder 3 - NOT PLAUSIBLE
New Holland	3069	Injector solenoid valve Cylinder 3 - SOURCE HIGH
New Holland	3070	Injector solenoid valve Cylinder 3 - SOURCE LOW
New Holland	3071	Injector solenoid valve Cylinder 3 - NO SIGNAL
New Holland	3072	Injector solenoid valve Cylinder 6 - NOT PLAUSIBLE
New Holland	3073	Injector solenoid valve Cylinder 6 - SOURCE HIGH
New Holland	3074	Injector solenoid valve Cylinder 6 - SOURCE LOW
New Holland	3075	Injector solenoid valve Cylinder 6 - NO SIGNAL
New Holland	3076	Injector solenoid valve Cylinder 2 - NOT PLAUSIBLE
New Holland	3077	Injector solenoid valve Cylinder 2 - SOURCE HIGH
New Holland	3078	Injector solenoid valve Cylinder 2 - SOURCE LOW

New Holland 3079 Injector solenoid valve Cylinder 2 - NO SIGNAL

New Holland 3080 Injector solenoid valve Cylinder 4 - NOT PLAUSIBLE

New Holland 3081 Injector solenoid valve Cylinder 4 - SOURCE HIGH

New Holland 3082 Injector solenoid valve Cylinder 4 - SOURCE LOW

New Holland 3083 Injector solenoid valve Cylinder 4 - NO SIGNAL

New Holland 3084 Injector Booster Voltage C1 - SOURCE HIGH

New Holland 3085 Injector Booster Voltage C1 - SOURCE LOW

New Holland 3086 Injector Booster Voltage C2 - SOURCE HIGH

New Holland 3087 Injector Booster Voltage C2 - SOURCE LOW

New Holland 3088 Increment speed signal - NOT PLAUSIBLE

New Holland 3089 Increment speed signal - SOURCE LOW

New Holland 3090 Segment speed signal - NOT PLAUSIBLE

New Holland 3091 Segment speed signal - SOURCE LOW

New Holland 3092 Engine Speed Sensing - NOT PLAUSIBLE

New Holland 3093 Engine Speed Sensing - SOURCE HIGH

New Holland 3094 Engine Speed Sensing - SOURCE LOW

New Holland 3095 Engine Speed Sensing - NO SIGNAL

New Holland 3096 CAN (A) Hardware - NO SIGNAL

New Holland 3097 CAN (B) Hardware - NO SIGNAL

New Holland 3098 CAN TSC1_TE Control - SOURCE LOW

New Holland 3099 CAN TSC1_TE Control - NO SIGNAL - CAN TE and CAN AE (Torque Request) error codes may be generated due to normal shutdown timing differences between the ECU and the XCM. If so, the actual error code 3096 or 3097 should also be displayed.

New Holland 3100 CAN TSC1_AE Control - SOURCE LOW

New Holland 3101 CAN TSC1_AE Control - NO SIGNAL

New Holland 3102 Fuel pressure monitoring CP3 - ALL OTHER FAULTS

New Holland 3102 Possible Causes: • Low fuel supply to CP3 (filter restriction). • Low output from CP3 • CP3 PWM fault (Check PWM output in Atlas, min 3% at engine idle, max 24% at full load Above 24% indicates excessive fuel leakage from the overpressure valve in the rail or Injector/transfer tube (remove the fuel return lines to check).

New Holland 3103 Fuel pressure signal - ABOVE NORMAL

New Holland 3104 Fuel pressure signal - SOURCE HIGH

New Holland 3105 Fuel pressure signal - SOURCE LOW

New Holland 3106 Fuel pressure signal - NO SIGNAL

New Holland 3107 CC HS Power stage 1 fuel press. Control - SOURCE HIGH

New Holland 3108 CC HS Power stage 1 fuel press. Control - SOURCE LOW

New Holland 3109 CC HS Power stage 1 fuel press. Control - NO SIGNAL

New Holland 3110 Monitoring of rail pressure relief valve - ABOVE NORMAL

New Holland 3111 Monitoring of rail pressure relief valve - BELOW NORMAL

New Holland 3112 Rail pressure Min / Max. error - SOURCE HIGH

New Holland 3113 Main relay defect - ABOVE NORMAL

New Holland 3114 Main relay defect - BELOW NORMAL

New Holland 3115 Main relay defect - NOT PLAUSIBLE

New Holland 3116 Main relay defect - SOURCE HIGH

New Holland 3117 ECU: Self Test Shutoff Paths (Start Up) - NOT PLAUSIBLE. Engine will derate to 1800 rpm.

New Holland 3117 Possible Causes: • ECU power failed when the engine was running or engine shut down process was incorrect.

New Holland 3118 Power supply for sensors - NOT PLAUSIBLE

New Holland 3119 Power supply for sensors - NO SIGNAL

New Holland 3120 Power supply for sensors - ALL OTHER FAULTS

New Holland 3121 PTO Torque sensor open circuit

New Holland 3122 PTO Torque sensor short circuit

New Holland 3123 PTO Torque not CAL error

New Holland 3124 Hand Throttle potentiometer 2 high error.

New Holland 3125 Hand Throttle potentiometer 2 Low error.

New Holland 3126 Hand Throttle potentiometer 1 high error.

New Holland 3127 Hand Throttle potentiometer 1 Low error.

New Holland 3128 Hand Throttle potentiometer diff. error.

New Holland 3129 Hand Throttle idle switch high error

New Holland 3130 Hand Throttle idle switch low error

New Holland	3131	ECU self test shutoff paths (start up)
New Holland	3132	CRPM Switch short
New Holland	4001	Signal of Aux-stick (AUX1) out of range low
New Holland	4002	Signal of Aux-stick (AUX1) out of range high
New Holland	4003	Signal from Remote Flow potentiometer 1 (AUX 1) out of range.
New Holland	4005	Signal of Aux-stick (AUX2) out of range low
New Holland	4006	Signal of Aux-stick (AUX2) out of range high
New Holland	4007	Signal from Remote Flow potentiometer 2 (AUX 2) out of range.
New Holland	4008	Signal from Remote valve 2 Timer Pot 1 out of range
New Holland	4009	Signal of Aux-stick (AUX3) out of range low
New Holland	4010	Signal of Aux-stick (AUX3) out of range high
New Holland	4011	Signal from Remote Flow potentiometer 3 (AUX 3) out of range.
New Holland	4015	Signal from Remote Flow potentiometer 4 (AUX 4) out of range.
New Holland	4016	Signal from Remote valve Timer potentiometer 1 out of range.
New Holland	4040	Supply Voltage too low
New Holland	4041	Supply Voltage too High
New Holland	4042	Arm Rest Module (ARU) CAN 'Bus off'.
New Holland	4043	Controller Fault (Register check)
New Holland	4044	Controller Fault (Flash Memory)
New Holland	4045	Controller Fault (Data Memory)
New Holland	4100	Remote No.1 No control Message Received
New Holland	4101	Remote No.1 Control Message not plausible
New Holland	4102	Remote No.1 EEPROM Error
New Holland	4103	Remote No.1 Switched to failsafe
New Holland	4104	Remote No.1 Under voltage
New Holland	4105	Remote No.1 Over voltage
New Holland	4106	Remote No.1 Spool movement to low
New Holland	4107	Remote No.1 Spool movement to high
New Holland	4108	Remote No.1 Float position not reached

New Holland	4109	Remote No.1 Manually operated
New Holland	4110	Remote No.1 Driver faulty
New Holland	4111	Remote No.1 potentiometer faulty.
New Holland	4112	Remote No.1 Unable to reach neutral
New Holland	4113	Remote No.1 Spool not in neutral at key on
New Holland	4114	Remote No.2 No control Message Received
New Holland	4115	Remote No.2 Control Message not plausible
New Holland	4116	Remote No.2 EEPROM Error
New Holland	4117	Remote No.2 Switched to failsafe
New Holland	4118	Remote No.2 Under voltage
New Holland	4119	Remote No.2 Over voltage
New Holland	4120	Remote No.2 Spool movement to low
New Holland	4121	Remote No.2 Spool movement to high
New Holland	4122	Remote No.2 Float position not reached
New Holland	4123	Remote No.2 Manually operated
New Holland	4124	Remote No.2 Driver faulty
New Holland	4125	Remote No.2 potentiometer faulty
New Holland	4126	Remote No.2 Unable to reach neutral
New Holland	4127	Remote No.2 Spool not in neutral at key on
New Holland	4128	Remote No.3 No control Message Received
New Holland	4129	Remote No.3 Control Message not plausible
New Holland	4130	Remote No.3 EEPROM Error
New Holland	4131	Remote No.3 Switched to failsafe
New Holland	4132	Remote No.3 Under voltage
New Holland	4133	Remote No.3 Over voltage
New Holland	4134	Remote No.3 Spool movement to low
New Holland	4135	Remote No.3 Spool movement to high
New Holland	4136	Remote No.3 Float position not reached
New Holland	4137	Remote No.3 Manually operated

New Holland	4138	Remote No.3 Driver faulty
New Holland	4139	Remote No.3 potentiometer faulty.
New Holland	4140	Remote No.3 Unable to reach neutral
New Holland	4141	Remote No.3 Spool not in neutral at key on
New Holland	4142	Remote No.4 No control Message Received
New Holland	4143	Remote No.4 Control Message not plausible
New Holland	4144	Remote No.4 EEPROM Error
New Holland	4145	Remote No.4 Switched to failsafe
New Holland	4146	Remote No.4 Under voltage
New Holland	4147	Remote No.4 Over voltage
New Holland	4148	Remote No.4 Spool movement to low
New Holland	4149	Remote No.4 Spool movement to high
New Holland	4150	Remote No.4 Float position not reached
New Holland	4151	Remote No.4 Manually operated
New Holland	4152	Remote No.4 Driver faulty
New Holland	4153	Remote No.4 potentiometer faulty.
New Holland	4154	Remote No.4 Unable to reach neutral
New Holland	4155	Remote No.4 Spool not in neutral at key on
New Holland	4156	Remote No.5 Spare
New Holland	4157	Remote No.5 Spare
New Holland	4158	Remote No.5 Spare
New Holland	4159	Remote No.5 Spare
New Holland	4160	Remote No.5 Spare
New Holland	4161	Remote No.5 Spare
New Holland	4162	Remote No.5 Spare
New Holland	4163	Remote No.5 Spare
New Holland	4164	Remote No.5 Spare
New Holland	4165	Remote No.5 Spare
New Holland	4166	Remote No.5 Spare

New Holland	4167	Remote No.5 Spare
New Holland	4168	Remote No.5 Spare
New Holland	4170	EHR Control No. 1 not calibrated
New Holland	4171	EHR Control No.1 open circuit
New Holland	4172	EHR Control No.1 short circuit
New Holland	4173	EHR Control No. 2 not calibrated
New Holland	4174	EHR Control No.2 open circuit
New Holland	4175	EHR Control No.2 short circuit
New Holland	4176	Timer Switch No.1 / No.2 not connected
New Holland	4177	EHR Control No. 3 not calibrated
New Holland	4178	EHR Control No.3 open circuit
New Holland	4179	EHR Control No.3 short circuit
New Holland	4180	EHR Control No. 4 not calibrated
New Holland	4181	EHR Control No.4 open circuit
New Holland	4182	EHR Control No.4 short circuit
New Holland	4183	Timer Switch No.3 / No.4 not connected
New Holland	4184	EHR Joystick potentiometer X open circuit.
New Holland	4185	EHR Joystick potentiometer X short circuit.
New Holland	4186	EHR Joystick potentiometer Y open circuit.
New Holland	4187	EHR Joystick potentiometer Y short circuit.
New Holland	4190	No communications from (EHR) No.1.
New Holland	4191	No communications from (EHR) No.2.
New Holland	4192	No communications from (EHR) No.3.
New Holland	4193	No communications from (EHR) No. 4.
New Holland	4194	Motor mode No.1 switch faulty
New Holland	4195	Motor mode No.2 switch faulty
New Holland	4196	Motor mode No.3 switch faulty
New Holland	4197	Motor mode No. 4 switch faulty
New Holland	5001	Rear PTO Brake Solenoid stuck off

New Holland	5002	Rear PTO Brake Solenoid stuck on
New Holland	5003	Rear PTO Brake output open circuit
New Holland	5004	Rear PTO Brake driver over temperature (not used)
New Holland	5005	Brake switch open circuit
New Holland	5007	Rear PTO Solenoid Stuck off
New Holland	5008	Rear PTO solenoid circuit overcurrent
New Holland	5024	Rear PTO not calibrated
New Holland	5027	Rear PTO speed sensor open circuit (not implemented)
New Holland	5033	Rear PTO cab N/C switch open circuit
New Holland	5034	Rear fender PTO switch open / short to ground.
New Holland	5035	Rear fender PTO switch input short to +12v
New Holland	5036	PTO failure to Start
New Holland	5037	Rear PTO cab N/O switch stuck closed
New Holland	5038	Cab & fender PTO switches operated in 2 sec
New Holland	5039	Incorrect voltage on fender PTO switch
New Holland	5040	Rear fender PTO switches reversed (not used)
New Holland	5041	PTO disengaged due to assuasive load (not used)
New Holland	5042	PTO Management switch shorted
New Holland	5099	Auto PTO mode not enabled
New Holland	6020	FWD switch error
New Holland	6021	FWD Solenoid Stuck on
New Holland	6022	FWD Solenoid Stuck off
New Holland	6023	FWD solenoid open circuit
New Holland	7014	Difflock switch error
New Holland	7015	Difflock Solenoid Stuck off
New Holland	7016	Difflock Solenoid Stuck on
New Holland	7017	Difflock solenoid open circuit
New Holland	7018	Difflock driver over temperature
New Holland	7024	Steering angle sensor not calibrated

New Holland	7031	Steering angle sensor out of Maximum range
New Holland	7032	Steering angle sensor out of Minimum range
New Holland	8007	Front PTO Solenoid Stuck on
New Holland	8008	Front PTO solenoid open circuit
New Holland	8024	Front PTO not calibrated
New Holland	8027	Front PTO speed sensor open circuit
New Holland	8033	Front PTO cab N/C switch open circuit
New Holland	8036	Front PTO failure to Start
New Holland	8037	Front PTO cab N/O switch stuck closed
New Holland	8099	Front PTO option not enabled
New Holland	9001	Front HPL (High Pressure Lift) Potentiometer open circuit.
New Holland	9002	Front HPL (High Pressure Lift) Potentiometer short circuit.
New Holland	10001	Upper lockout Solenoid error
New Holland	10002	Raise Solenoid error
New Holland	10003	Lower Solenoid error
New Holland	10004	Front Axle Potentiometer above threshold
New Holland	10005	Front Axle Potentiometer below threshold
New Holland	10007	Go up error, Suspension Unable to return to set point
New Holland	10008	Go down error, Suspension Unable to return to set point
New Holland	10009	Lower lockout Solenoid Error
New Holland	10024	Front Suspension not calibrated
New Holland	10099	Front Suspension mode not enabled
New Holland	14001	Rear PTO speed short to VCC or open circuit
New Holland	14002	Rear PTO speed short to Ground
New Holland	14011	Engine speed sensor short to VCC or open circuit
New Holland	14012	Engine speed sensor short to Ground
New Holland	14015	The ADIC 5 volt reference voltage is too low - below 4 volts
New Holland	14016	The ADIC 5 volt reference voltage is too high - above 6 volts
New Holland	14021	Radar Ground speed short to VCC or open circuit

New Holland 14022 Radar Ground speed short to Ground

New Holland 14031 Front PTO speed short to VCC or open circuit

New Holland 14032 Front PTO speed short to Ground

New Holland 14041 Engine coolant temp short to VCC or open circuit

New Holland 14042 Engine coolant temp short to Ground

New Holland 14051 Fuel level sensor short to VCC or open circuit

New Holland 14052 Fuel level sensor short to Ground

New Holland 14061 Air brake pressure short to VCC or option set but sensor not connected

New Holland 14071 Front Hitch Position short to 12 or 5 Volts

New Holland 14072 Front Hitch Position short to Ground or open circuit

New Holland 14081 Engine oil pressure short to 12 or 5 Volts

New Holland 14082 Engine oil pressure short to Ground or open circuit

New Holland 14091 Transmission output speed short to VCC or open circuit

New Holland 14092 Transmission output speed short to Ground

New Holland 14100 Air brake pressure not configured

New Holland 14101 Fuel contaminated sensor Not connected

New Holland 14200 EEPROM error

New Holland 14900 Transmission module missing (DA/DB/DE/DF).

New Holland 14901 Engine controller not present (EDC7)

New Holland 14902 Auxiliry (optional) Controller Module missing (DD/DH).

New Holland 14903 SCM controller missing (GA 12x12 only).

New Holland 14904 Arm Rest Module (ARU) missing. (Steyr 16x16 only)

New Holland 14905 KEYPAD missing

New Holland 14906 Fast Steer Controller (KA) missing.

New Holland 14907 DOG (Display Of Gears) missing.

New Holland 15001 Exceeding safe operating wheel speed (10 km/h) with system still enabled or still active. Error code not active fast steer lamp flashes instead.

New Holland 15002 Steering wheel control proximity sensor open circuit.

New Holland 15003 Steering wheel control proximity sensor short circuit.

New Holland 15006 Split valve LVDT open circuit.

New Holland 15007 Split valve LVDT short circuit.

New Holland 15008 Change valve Solenoid open circuit

New Holland 15009 Change valve Solenoid short circuit across

New Holland 15010 Safety switch Fail

New Holland 15011 Maximum engagement time (5 minutes) elapsed.

New Holland 15012 Split Valve spool stuck open

New Holland 15013 Change valve or Split valve spools Stuck closed.

New Holland 15014 Split Valve spool stuck in transition zone cant identify which steering mode the tractor is definitely in.

New Holland 15015 Cold oil, temperature below 5 degrees C. Error code not active fast steer lamp flashes instead.

New Holland 15024 System not calibrated.