

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 Actuator Pressure voltage high
ENG	484	Rear Bank Post Actuator 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 voltage out 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	FNR Pod Forward switch is shorted to ground or open circuit
TRANS 67	FNR Pod Forward switch is shorted to power
TRANS 68	FNR Pod Reverse switch is shorted to ground or open circuit
TRANS 69	FNR 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 Performance 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 RxAMCONlv (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	12VU2 voltage supply is low. (possible blown fuse*)
Front Suspension shorted to ground	10001	Front suspension Pump Not tank Valve solenoid is open circuit or
Front Suspension ground	10002	Front suspension rod Side Valve solenoid is open circuit or shorted to
Front Suspension to ground	10003	Front suspension piston Side Valve solenoid is open circuit or shorted
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 ground.	10015	Front suspension Lock Valve Solenoid is open circuit or is shorted to
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 not in 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.