

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 $\tilde{\Delta}$ click test $\tilde{\Delta}$ [®]
ENG	272	Front Pumping Control Valve current is high
ENG	273	Rear Pumping Control Valve current is low during $\tilde{\Delta}$ click test $\tilde{\Delta}$ [®]
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 voltageout of range high or low.
ENG	595	Turbo overspeed protection fault
ENG	596	Battery voltage is too high
ENG	597	Battery voltage is too low
ENG	598	Battery voltage is very low
ENG	599	Engine is being shutdown based on OEM input
ENG	611	ECM detected engine initiated protection shutdown or keyed-off while above specific load limit
ENG	697	Engine Controller internal temperature too high
ENG	698	Engine Controller internal temperature too low
ENG	731	Engine Speed / Position #2 - Mechanical misalignment.
ENG	753	Synchronization has been lost.
ENG	755	Front Bank injector is bad.
ENG	758	Rear Bank injector is bad
ENG	951	A power imbalance between the cylinders was detected by the controller hardware
ENG	983	Unused A/D input channel out of range.
ENG	1117	Battery voltage too low, or the controller was not allowed to power down correctly
ENG	1256	Control Module Identification Input State Error.
ENG	1257	Control Module Identification Input State Error.
ENG	2117	Engine Coolant Level is low. Add coolant fluid.
ENG	2186	Supply Voltage to the accelerator pedal position sensor too low.
ENG	2195	Auxiliary Equipment Sensor Input # 3 - Engine Protection Critical - Special Instructions.
ENG	2249	Injector Metering Rail 1 Fuel Pressure lower than commanded pressure.
ENG	2265	Electric Lift Pump for Engine Fuel Supply Voltage too high.
ENG	2266	Electric Lift Pump for Engine Fuel Supply Voltage too low.
ENG	2292	Fuel Inlet Meter Device higher than expected.
ENG	2293	Fuel Inlet Meter Device flow demand lower than expected.
ENG	2311	Electronic Fuel Injection Control Valve open or closed Circuit.
ENG	2321	Engine Crankshaft Speed / Position data invalid.
ENG	2322	Engine Camshaft Speed / Position Sensor data invalid.
ENG	2372	Engine Fuel Filter clogged error
ENG	2555	Intake Air Heater 1 Circuit Voltage too high.
ENG	2558	Auxiliary PWM Driver 1 Circuit Voltage too low.
ENG	2973	Intake Manifold 1 Pressure data invalid.
TRANS	11	Master Clutch Potentiometer Open Circuit or short to ground
TRANS	12	Master Clutch Potentiometer Short to +12 Volts or short to 5 Vreff
TRANS	24	None of the transmission clutches are calibrated
TRANS	37	BOC switch open circuit or Neutral relay stuck open
TRANS	38	Shuttled to reverse when no wheel speed signal was available
TRANS	47	Clutch pedal bottom of clutch switch misadjusted
TRANS	48	BOC switch or Neutral relay short circuit
TRANS	49	Auto Guidance Isolation valve driver Fault

TRANS	50	Park Brake is powered off when in park
TRANS	51	FNRP pod indicates Forward or Reverse is on, when Park is on
TRANS	52	Park Brake is stuck on when commanded off
TRANS	53	5 volt reference voltage too high
TRANS	54	5 volt reference voltage too low
TRANS	59	FNRP pod in illogical state (two positions on at same time)
TRANS	60	FNRP pod in illogical state (in no position)
TRANS	61	System pressure valve solenoid circuit is open circuit or shorted to ground
TRANS	62	System pressure solenoid is shorted to B+
TRANS	64	Transmission output Sped is too high (above 8200 RPM)
TRANS	65	Operator attempted a shuttle operation while out of the seat
TRANS	66	FNRP Pod Forward switch is shorted to ground or open circuit
TRANS	67	FNRP Pod Forward switch is shorted to power
TRANS	68	FNRP Pod Reverse switch is shorted to ground or open circuit
TRANS	69	FNRP Pod Reverse switch is shorted to power
TRANS	70	Battery voltage is too low for clutch solenoid operation
TRANS	72	Transmission Oil Temperature is above 122 deg. C
TRANS	73	Software is out of the calibration mode and the park brake request is still active.
TRANS	74	The park brake ON with gear is engaged - no park brake request from calibration.
TRANS	75	Engine speed from Inst Controller does not match the speed signal from the alternator.
TRANS	76	Engine speed from Eninge Controller does not match the speed signal from the alternator.
TRANS	77	No signal from wheel speed sensor
TRANS	78	Transmission regulated pressure accumulator is discharged
TRANS	79	Engine RPM from the alternator is measured too high
TRANS	80	Wheel speed sensor is measured too high
TRANS	81	Transmission clutches are slipping
TRANS	82	Creep Clutch is not calibrated
TRANS	83	Communications Lost with Engine Controller
TRANS	103	Odd clutch solenoid or its wiring failed open or shorted to ground
TRANS	104	Even clutch solenoid or its wiring failed open or shorted to ground
TRANS	105	C1-2 clutch solenoid or its wiring failed open or shorted to ground
TRANS	106	C3-4 clutch solenoid or its wiring failed open or shorted to ground
TRANS	107	C5-6 clutch solenoid or its wiring failed open or shorted to ground
TRANS	108	Master clutch solenoid or its wiring failed open or shorted to ground
TRANS	109	Low range clutch solenoid or its wiring failed open or shorted to ground
TRANS	110	Mid range clutch solenoid or its wiring failed open or shorted to ground
TRANS	111	High range clutch solenoid or its wiring failed open or shorted to ground
TRANS	112	Reverse clutch solenoid or its wiring failed open or shorted to ground
TRANS	113	Creeper clutch solenoid or its wiring failed open or shorted to ground
TRANS	114	Even clutch solenoid coil or its wiring shorted to power
TRANS	115	Odd clutch solenoid coil or its wiring shorted to power
TRANS	116	C1-2 clutch solenoid coil or its wiring shorted to power
TRANS	117	C3-4 clutch solenoid coil or its wiring shorted to power
TRANS	118	C5-6 clutch solenoid coil or its wiring shorted to power
TRANS	119	Master clutch solenoid coil or its wiring shorted to power
TRANS	120	Low range clutch solenoid coil or its wiring shorted to power
TRANS	121	Mid range clutch solenoid coil or its wiring shorted to power
TRANS	122	High range clutch solenoid coil or its wiring shorted to power
TRANS	123	Reverse clutch solenoid coil or its wiring shorted to power
TRANS	124	Creeper clutch solenoid coil or its wiring shorted to power
TRANS	125	Odd clutch is not calibrated
TRANS	126	Even clutch is not calibrated
TRANS	127	C1-2 clutch is not calibrated
TRANS	128	C3-4 clutch is not calibrated
TRANS	129	C5-6 clutch is not calibrated
TRANS	130	Low range clutch is not calibrated
TRANS	131	Mid range clutch is not calibrated
TRANS	132	High range clutch is not calibrated
TRANS	133	Reverse clutch is not calibrated
TRANS	134	Master clutch is not calibrated
TRANS	135	Communication lost with the armrest controller

TRANS	136	Communication lost with the instrumentation controller
TRANS	137	Front Suspension raise lock solenoid circuit shorted or open circuit
TRANS	138	Front Suspension raise solenoid circuit shorted or open circuit
TRANS	139	Front Suspension lower lock solenoid circuit shorted or open circuit
TRANS	140	Front suspension position is above the expected absolute limit
TRANS	141	Front suspension position is below the expected absolute limit
TRANS	142	Front suspension travel range has not been calibrated
TRANS	143	Front suspension position is above the upper suspension range
TRANS	144	Front suspension position is below the lower suspension range
TRANS	145	Front Suspension lower lock solenoid circuit shorted or open circuit
TRANS	146	Regulated system pressure low (below 100PSI / 689 KPA)
TRANS	147	Regulated system pressure below 290 PSI
TRANS	148	Backup alarm circuit shorted or open
TRANS	150	Front suspension pressure sensor rod side (DA-R) out of range high
TRANS	151	Front suspension pressure sensor rod side open circuit
TRANS	152	Front Suspension pressure control not able to increase pressure on the rod side
TRANS	153	Front Suspension pressure control not able to decrease pressure on the rod side
TRANS	154	Front Suspension Lock Valve Stuck on fault (suspension will not lock)
TRANS	155	Front Suspension Lock Valve is stuck of (suspension will not unlock)
TRANS	156	Lock valve was installed but removed
ARM	19	Hand THROTTLE potentiometer is failed
ARM	29	Aux 1st remote valve LEVER potentiometer is failed
ARM	39	Aux 2nd remote valve LEVER potentiometer is failed
ARM	49	Aux 3rd remote valve LEVER potentiometer is failed
ARM	59	Aux 4th remote valve LEVER potentiometer is failed
ARM	69	HITCH POSITION command potentiometer is failed
ARM	79	HITCH LOAD command potentiometer is failed
ARM	89	Aux 1st remote valve FLOW potentiometer is failed
ARM	99	Aux 2nd remote valve FLOW potentiometer is failed
ARM	109	Aux 3rd remote valve FLOW potentiometer is failed
ARM	119	Aux 4th remote valve FLOW potentiometer is failed
ARM	129	Aux 5th remote valve FLOW potentiometer is failed
ARM	139	Aux remote valve TIMER potentiometer is failed
ARM	149	Hitch UPPER LIMIT potentiometer is failed
ARM	159	Hitch DROP RATE potentiometer is failed
ARM	169	Hitch TRAVEL potentiometer is failed
ARM	1029	Aux 5th remote valve control switch is failed
ARM	1039	PTO switch is failed
ARM	1049	Hitch UP/DOWN switch is failed
ARM	1059	Hitch SLIP switch is failed
ARM	1069	MFD switch is failed
ARM	1079	DIFF LOCK switch is failed
ARM	1089	Programmable UP/DOWN switch is failed.
ARM	1099	Aux remote valve LIMIT SET switch is failed
ARM	1109	Hand Throttle IDLE VALIDATION switch is failed
ARM	1119	RECORD/PLAY switch is failed
ARM	1129	Invalid Configuration - Implement Depth Control switch is failed
ARM	1139	Engine Brake switch is failed
ARM	1149	Auto Field / Transport Switch is in an illogical state
ARM	8011	Battery Voltage is too Low
ARM	9011	Controller Memory Error - Loss of Hitch Position Command Calibration
ARM	9012	Controller Memory Error - Loss of Aux Remote Lever Calibrations
ARM	9013	Controller Memory Error - Loss of Throttle Calibrations
ARM	9014	Controller Memory Error - Loss of MFD switch Configuration
ARM	9015	Controller Memory Error - Loss of Trans switches Configuration
ARM	9021	Hitch position command potentiometer calibration results not acceptable
ARM	9031	Hand throttle potentiometer calibration results not acceptable
ARM	9041	Hitch DROP RATE potentiometer calibration value(s) are out of range
ARM	10091	Armrest Controller failure - 5 V regulator failure
ARM	12013	Communications Lost with Data Bus and ALL other controllers
ARM	12081	Loss of/unavailable Performance Monitor Display - RECORD/PLAY functionality disabled

TMF	3	Hitch Raise Solenoid High Side Driver shorted to 12 volts.
TMF	4	Hitch Raise Solenoid Failed Open or Shorted to Ground.
TMF	5	Hitch Lower Solenoid Shorted to 12 volts.
TMF	6	Hitch Lower Solenoid High Side Driver circuit short to 12 volts.
TMF	7	Hitch Raise/Lower Solenoids Open or short to ground.
TMF	11	Communications Lost with Data Bus and ALL other controllers
TMF	12	Communication lost with the armrest controller
TMF	14	5 Volt Sensor Supply voltage is too high
TMF	15	5 Volt Sensor Supply voltage is too low
TMF	17	Hitch Position Command potentiometer failed in the Armrest controller
TMF	18	Hitch Rockshaft Position potentiometer is outside normal operating range.
TMF	19	Hitch Upper Limit potentiometer is failed in the Armrest Controller
TMF	21	Hitch Load Command potentiometer is failed in the Armrest Controller
TMF	22	Single draft pin sensor failed when configured for one draft pin sensor.
TMF	23	Two draft pin sensors failed when configured for two draft pins.
TMF	24	Communications Lost with Instrumentation Controller
TMF	25	Hitch Up/Down Switch failed in the Armrest controller
TMF	26	Fender UP and DOWN switch failure or both switches simultaneously pressed
TMF	28	Hitch Travel potentiometer is failed in the Armrest Controller
TMF	29	Hitch Drop Rate potentiometer is failed in the Armrest Controller
TMF	30	Right Draft Pin voltage is outside the normal operating range.
TMF	31	Left Draft Pin voltage is outside the normal operating range.
TMF	32	Ground Speed Signal is failed in the Instrumentation Controller
TMF	33	Hitch Slip Set Switch failed in the Armrest controller
TMF	34	Hitch Slip Select Switch failed in the Armrest controller
TMF	35	Slip Sensor (radar or wheel speed) is failed in the Instrumentation Controller
TMF	37	The ARU reports EDC Transport Lock is faulty or not available.
TMF	41	Draft pin(s) detected but the Armrest controller specified tractor without draft control.
TMF	42	Engine speed must be set above 1600 rpm during calibration of lower valve.
TMF	43	No Draft pin(s) detected but the Armrest controller specified tractor with draft control.
TMF	44	Hitch calibration aborted due to tractor movement.
TMF	45	Hitch calibration attempted when the engine is not running or engine speed signal is failed.
TMF	47	Raise Valve calibration value is too high. (valve problem)
TMF	48	Raise Valve calibration value is too low. (valve problem)
TMF	50	Hitch position at top of travel is not within specification during calibration
TMF	51	Lower Valve calibration value is too high. (valve problem)
TMF	52	Lower Valve calibration value is too low. (valve problem)
TMF	53	The time allowed for hitch calibration has expired
TMF	54	Hitch position at bottom of travel is not within specification during calibration
TMF	55	Hitch position range from top to bottom is not within spec during calibration
TMF	56	Hitch position range to position command range ratio is not within spec during calibration.
TMF	57	Right Draft Pin voltage is not within spec for "no load" condition during calibration
TMF	58	Left Draft Pin voltage is not within spec for "no load" condition during calibration
TMF	59	Both Draft Pin voltages are not within spec for "no load" condition during calibration
TMF	60	Draft pin connected to left vs right for single pin setup during calibration
TMF	61	The Hitch Calibration procedure must be performed.
TMF	62	Communications Lost with Performance Monitor Function
TMF	63	Controller 8 volt reference is too high (above 8.8 volts).
TMF	64	Controller 8 volt reference is too low (below 7.2 volts).
TMF	65	Battery Voltage is too Low
TMF	66	Battery Voltage is too Low
TMF	80	MFD fault condition in software.
TMF	81	MFD Solenoid is failed Open or Short Circuit
TMF	82	Differential Lock Solenoid is failed Open or Short Circuit
TMF	83	Brake Lamp Relay Solenoid is failed Open or Short Circuit
TMF	86	Wheel Slip Signal is failed in the Instrumentation Controller
TMF	87	Ground Speed Signal is failed in the Instrumentation Controller
TMF	88	Differential Lock Switch is failed in the Armrest Controller
TMF	89	Differential Lock Switch is failed in the Armrest Controller
TMF	90	Differential Lock Switch is failed in the Armrest Controller
TMF	92	MFD Switch is failed in the Armrest Controller

TMF	93	MFD Switch is failed in the Armrest Controller
TMF	94	Differential Lockout fault condition in software.
TMF	95	The steering angle sensor is above the expected operating range
TMF	96	The steering angle sensor is below the expected operating range
TMF	98	Battery Voltage is too Low
TMF	99	Battery Voltage is too Low
TMF	106	Aux 5th remote valve control switch (Extend) is failed in the Armrest Controller
TMF	107	Aux 5th remote valve control switch (Retract) is failed in the Armrest Controller
TMF	108	Aux 1st remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	109	Aux 2nd remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	110	Aux 3rd remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	111	Aux 4th remote valve LEVER potentiometer is failed in the Armrest Controller
TMF	112	Aux 1st remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	113	Aux 2nd remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	114	Aux 3rd remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	115	Aux 4th remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	116	Aux 5th remote valve FLOW potentiometer is failed in the Armrest Controller
TMF	120	Electro Hydraulic Remote top link switch is stuck on.
TMF	123	Aux 1st Lower Coil solenoid shorted to 12 volts.
TMF	124	Aux 1st Lower solenoid failed open or short circuit.
TMF	125	Aux 1st Raise Coil solenoid shorted to 12 volts.
TMF	126	Aux 1st Raise solenoid failed open or short circuit.
TMF	127	Aux 2nd Lower Coil solenoid shorted to 12 volts.
TMF	128	Aux 2nd Lower solenoid failed open or short circuit.
TMF	129	Aux 2nd Raise Coil solenoid shorted to 12 volts.
TMF	130	Aux 2nd Raise solenoid failed open or short circuit.
TMF	131	Aux 3rd Lower Coil solenoid shorted to 12 volts.
TMF	132	Aux 3rd Lower solenoid failed open or short circuit.
TMF	133	Aux 3rd Raise Coil solenoid shorted to 12 volts.
TMF	134	Aux 3rd Raise solenoid failed open or short circuit.
TMF	135	Aux 4th Lower Coil solenoid shorted to 12 volts.
TMF	136	Aux 4th Lower solenoid failed open or short circuit.
TMF	137	Aux 4th Raise Coil solenoid shorted to 12 volts.
TMF	138	Aux 4th Raise solenoid failed open or short circuit.
TMF	139	Aux 5th Lower Coil solenoid shorted to 12 volts.
TMF	141	Aux 5th Raise Coil solenoid shorted to 12 volts.
TMF	142	Aux 5th Raise solenoid failed open or short circuit.
TMF	147	Implement feedback #1 out of range High
TMF	148	Implement feedback #1 out of range Low
TMF	149	Implement feedback #2 out of range High
TMF	150	Implement feedback #2 out of range Low
TMF	151	Communications Lost with Transmission Controller
TMF	152	Electro Hydraulic Remote top link switch voltage is short circuit.
TMF	153	Electro Hydraulic Remote top link switch data invalid
TMF	154	PTO switch interlock - Cab Switch and Fender switch on at the same time.
TMF	155	Auto PTO switch data failed in the Armrest controller.
TMF	156	Auto PTO switch stuck ON in Armrest Controller.
TMF	157	PTO remote fender switch short circuit.
TMF	158	PTO remote fender switch open circuit
TMF	159	PTO remote fender switch stuck ON.
TMF	160	PTO Clutch is Slipping Too Much
TMF	162	Engine Stalled when the PTO was running.
TMF	163	PTO Shaft rotation is detected when the PTO clutch is OFF.
TMF	164	PTO shaft speed has not been detected within 3.6 seconds of being turned ON.
TMF	165	PTO Shaft rotation is detected when the Engine is OFF.
TMF	166	PTO Driver is on and no current is sensed.
TMF	167	Current sensed when the PTO driver is off.
TMF	168	PTO ON/OFF switch is failed in the Armrest Controller
TMF	169	PTO ON/OFF switch is failed in the Armrest Controller
TMF	170	PTO ON/OFF switch is failed in the Armrest Controller
TMF	171	PTO software fault condition detected.

TMF	172	PTO Solenoid Circuit is failed shorted to 12 Volts when PTO is in the off state.
TMF	173	PTO Solenoid Circuit is failed shorted to ground when PTO is in the off state.
TMF	174	Current flowing in the PTO sense resistor when the high side is off.
TMF	175	PTO Clutch has not reached lock up speed within 6 seconds of being turned ON
TMF	178	PTO speed sensor has been changed.
TMF	179	The PTO is receiving no frequency from the Shaft Size Sensor on a two speed PTO
TMF	180	The PTO is receiving signals from the Shaft Size Sensor on a single speed PTO configuration.
INST	1015	Seat Switch may be stuck closed.
INST	1024	Trans oil filter switch shorted to ground on power up.
INST	1034	Hydraulic oil filter switch shorted to ground on power up.
INST	3010	PTO Shaft Speed sensor is failed in PTO Controller
INST	3020	Engine Speed sensor is failed in the Engine Controller
INST	3022	Engine Overspeed Error
INST	5010	Engine Oil Pressure sensor is failed in the Engine Controller
INST	5011	Engine Oil Pressure sensor voltage is too low (open circuit, short to ground)
INST	7024	Reversible Fan Control open circuit or shorted to ground.
INST	10031	Controller Memory Error - Loss of Engine Hours information
INST	10032	Controller Memory Error - Loss of Vehicle Configuration information
INST	10033	Controller Memory Error - Loss of Customer Configuration information
INST	10034	Controller Memory Error: Loss of valid fuel table information.
INST	10035	Controller Memory Error - Loss of Valid Radar Configuration information.
INST	10036	Controller Memory Error - Loss of Displayed Performance information
INST	10037	Controller Memory Error - Loss of Implement Width information
INST	10038	Controller Memory Error - Loss of Valid Remote Timer information.
INST	11011	Fuel Level Sensor voltage is too low (open circuit, short to ground)
INST	12011	Communications Lost with Armrest Controller
INST	12021	Communications Lost with Auxiliary Controller
INST	12031	Communications Lost with Hitch Controller
INST	12043	Communications Lost with Data Bus 1 and ALL other controllers
INST	12051	Communications Lost with PTO Controller
INST	12053	Communications Lost with Vehicle Data Bus 2.
INST	12071	Communications Lost with Transmission Controller
INST	12091	Communications Lost with Engine Controller
INST	12101	Communications Lost with Tractor ECU (Gateway) Controller
INST	12111	Communications Lost with Automatic Temperature Controller
INST	12121	Communications Lost with Color 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. none of the Transmission clutches are calibrated. This will be the condition when a new controller is installed on the tractor.
Trans	2024	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. 1) Switch inputs indicate shuttle lever is in both forward and neutral 2) Switch inputs indicate shuttle lever is in both reverse and neutral 3) 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	2059	
Trans	2071	Forward switch input from the FNR Pod is shorted to ground or is open circuit.
Trans	2072	Reverse switch input from the FNR Pod is shorted to +12 Volts or the FNR pod 5 Volt Reference.
Trans	2073	Reverse switch input from the FNR 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 The Transmission output RPM speed, sourced from the sensor, measured by the controller is too high for the desired gear
Trans	2330	
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
		The Park Brake is stuck on by no electrical power supplied to the solenoid when driver is commanded on.
Trans	2852	Possible service brake bottom brake switches open.
Trans	2055	No signal from wheel speed sensor.
		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	2873	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	2874	Torque sensor Gap is on the larger end of the tolerance (CCH Only)
Trans	2900	Signal received from the torque sensor is not in any fault range or normal range tolerance (CCH Only)
Trans	2901	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 Cylinder 3 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure Negative Deviation too High on
Engine	3301	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 Cylinder 4 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure below Minimum Limit in
Engine	3305	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 \bar{A} -on \bar{A} state.
Rear PTO	5014	PTO is commanded off but the PTO speed greater than zero. The software has not detected PTO shaft speed for greater than 3 seconds since the PTO initial fill vale was commanded
Rear PTO	5015	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) PTO is configured as a two speed and no shaft size frequency was detected when the PTO was switched on.
Rear PTO	5019	(CCH Only) PTO is configured as a single speed and the shaft size frequency was detected when the PTO was switched on.
Rear PTO	5020	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. 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	6004	Rear Differential Lock and Auto Differential Lock (Only CCH):1. Diff Lock On and Auto Diff Lock switches are both active
MFD/Diff Lock	6005	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	6006	Both MFD and Auto MFD switches active fault
MFD/Diff Lock	6007	Steering angle sensor above maximum voltage limit.
MFD/Diff Lock	6008	Steering angle sensor below minimum voltage limit.
MFD/Diff Lock	6009	12VS1voltage supply is low. (possible blown fuse*)
MFD/Diff Lock	6010	12VS2 voltage supply is low. (possible blown fuse*)
MFD/Diff Lock	6011	12VS2 voltage supply is low. (possible blown fuse*)
Front PTO	8001	Front PTO cab switch is on during tractor power up.
Front PTO	8002	Front PTO cab switch open
Front PTO	8003	Front PTO cab switch short
Front PTO	8004	Front PTO solenoid open circuit or shorted to ground or AD12VU2 voltage is low.
Front PTO	8005	Front PTO solenoid circuit shorted to B+ when Front PTO is in the off state.
Front PTO	8006	Low side driver is stuck on and no current is sensed.
Front PTO	8007	Front PTO switch is in the on position when the engine is off.
Front PTO	8010	12VU2voltage supply is low. (possible blown fuse*)
Front Suspension	10001	Front suspension Pump Not tank Valve solenoid is open circuit or shorted to ground
Front Suspension	10002	Front suspension rod Side Valve solenoid is open circuit or shorted to ground
Front Suspension	10003	Front suspension piston Side Valve solenoid is open circuit or shorted to ground
Front Suspension	10004	Front Suspension Position sensor out of Range High Error
Front Suspension	10005	Front Suspension Position sensor out of Range Low Error
Front Suspension	10006	Front suspension will not raise error
Front Suspension	10007	Front Suspension will not Lower error
Front Suspension	10008	Front Suspension Piston Pressure transducer range high error
Front Suspension	10009	Front Suspension Piston Pressure transducer range lower error
Front Suspension	10010	Front Suspension Rod Pressure transducer range high error
Front Suspension	10011	Front Suspension Rod Pressure transducer range lower error
Front Suspension	10012	Front suspension Rod side pressure will not raise error
Front Suspension	10013	Front suspension piston side pressure will not raise error
Front Suspension	10014	Front Suspension Not calibrated error
Front Suspension	10015	Front suspension Lock Valve Solenoid is open circuit or is shorted to ground.
Front Suspension	10016	FSUS_ENABLE_SW_ERR 10016
Front Suspension	10017	FSUS_ENABLE_SW_NA_ERR10017
Front Suspension	10018	Front Suspension Pump not tank Solenoid over current
Front Suspension	10019	Front Suspension rod Side Solenoid over current
Front Suspension	10020	Front Suspension piston Solenoid over current
Front Suspension	10021	Front Suspension lock out Solenoid over current
Front Suspension	10022	12VM voltage supply is low. (possible blown fuse*)
Front Suspension	10023	12VF3 voltage supply is low. (possible blown fuse*)
Front Suspension	10024	12VF1 voltage supply is low. (possible blown fuse*)
ICU	14002	Trans oil filter switch closed to ground on power up.
ICU	14003	Hyd oil filter switch closed to ground on power up.
ICU	14005	PTO shaft speed data is _ERROR_ or _NOT AVAILABLE_ state from PTO.
ICU	14006	GOV ENGINE speed data is _ERROR_ or _NOT AVAILABLE_ state from GOV.
ICU	14007	Engine Over speeding
ICU	14008	ENGINE oil pressure data is _ERROR_ or _NOT AVAILABLE_ state from GOV.

ICU	14009	Loss of valid ENGINE Hours
ICU	14010	PTO controller off line
ICU	14011	Communications Lost with Vehicle Data Bus 1 and ALL other controllers
ICU	14013	TRANSMISSION Off Line
ICU	14014	ENGINE coolant temperature data is _ERROR_ or _NOT AVAILABLE_ state from GOV.
ICU	14015	Engine Intake Air Temperature data is _ERROR or _NOT AVAILABLE state from GOV.
ICU	14016	Engine shutdown activated
ICU	14017	Fuel Level Sensor voltage out of range low.
ICU	14018	GOV Off Line
ICU	14019	ATC Off Line
Armrest	18001	Hand throttle #1 -voltage too low (New Holland Only)
Armrest	18002	Hand throttle #1 -voltage too high (New Holland Only)
Armrest	18003	Hand throttle #2 -voltage too low
Armrest	18004	Hand throttle #2 -voltage too high
Armrest	18005	Engine droop control -voltage too low
Armrest	18006	Engine droop control -voltage too high
Armrest	18007	Multi-function handle -switch error
Armrest	18008	Multi-function handle -voltage too low
Armrest	18009	Multi-function handle -voltage too high
Armrest	18010	Powershift throttle -voltage too low (Case IH)
Armrest	18011	Powershift throttle -voltage too high (Case IH)
Armrest	18012	CVT mode switch error
Armrest	18013	Multi-function handle -encoder position error
Armrest	18014	Rear hitch position control potentiometer -voltage too low
Armrest	18015	Rear hitch position control potentiometer -voltage too high
Armrest	18016	Rear hitch draft control potentiometer -voltage too low
Armrest	18017	Rear hitch draft control potentiometer -voltage too high
Armrest	18018	Rear hitch height limit potentiometer -voltage too low
Armrest	18019	Rear hitch height limit potentiometer -voltage too high
Armrest	18020	Rear hitch drop rate potentiometer -voltage too low
Armrest	18021	Rear hitch drop rate potentiometer -voltage too high
Armrest	18022	Rear hitch sensitivity control potentiometer -voltage too low
Armrest	18023	Rear hitch sensitivity control potentiometer -voltage too high
Armrest	18024	EHR flow encoder position error
Armrest	18025	Rear hitch slip control potentiometer -voltage too low
Armrest	18026	Rear hitch slip control potentiometer -voltage too high
Armrest	18027	EHR 5 lever position -voltage too low (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18028	EHR 5 lever position -voltage too high (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18029	EHR 6 lever position -voltage too low (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18030	EHR 6 lever position -voltage too high (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18031	Front hitch position / pressure control potentiometer -voltage too high
Armrest	18032	Front hitch position / pressure control potentiometer -voltage too low
Armrest	18033	Front hitch position / pressure mix potentiometer -voltage too high
Armrest	18034	Front hitch position / pressure mix potentiometer -voltage too low
Armrest	18035	Front hitch position height limit potentiometer -voltage too high
Armrest	18036	Front hitch position height limit potentiometer -voltage too low
Armrest	18037	Front hitch height limit enable switch error
Armrest	18038	Front hitch position drop rate potentiometer -voltage too high
Armrest	18039	Front hitch position drop rate potentiometer -voltage too low
Armrest	18040	EHR 1 lever position -voltage too low
Armrest	18041	EHR 1 lever position -voltage too high
Armrest	18042	EHR 2 lever position -voltage too low
Armrest	18043	EHR 2 lever position -voltage too high
Armrest	18044	EHR 3 lever position -voltage too low
Armrest	18045	EHR 3 lever position -voltage too high
Armrest	18046	EHR float control switch error
Armrest	18047	EHR 4 lever position -voltage too low

Armrest	18048	EHR 4 lever position -voltage too high
Armrest	18049	Joystick 1 X-axis position -voltage too low
Armrest	18050	Joystick 1 X-axis position -voltage too high
Armrest	18051	Joystick 1 Y-axis position -voltage too low
Armrest	18052	Joystick 1 Y-axis position -voltage too high
Armrest	18053	Joystick 1 proportional rocker switch -voltage too low
Armrest	18054	Joystick 1 proportional rocker switch -voltage too high
Armrest	18055	Joystick 2 X-axis position -voltage too low (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18056	Joystick 2 X-axis position -voltage too high (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18057	Joystick 2 Y-axis position -voltage too low (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18058	Joystick 2 Y-axis position -voltage too high (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18059	Joystick 2 proportional rocker switch -voltage too low (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18060	Joystick 2 proportional rocker switch -voltage too high (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18061	Reference voltage _short circuit to 0V
Armrest	18062	Reference voltage _short circuit to 12V
Armrest	18063	EEPROM fault
Armrest	18064	MFH communication error
Armrest	18065	MFH basic assurance test error
Armrest	18066	EHR 1 lever implausibility error
Armrest	18067	EHR 2 lever implausibility error
Armrest	18068	EHR 3 lever implausibility error
Armrest	18069	EHR 4 lever implausibility error
Armrest	18070	EHR 5 lever implausibility error (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18071	EHR 6 lever implausibility error (not applicable to CCM/APH_it may indicate incorrect configuration of the ACM)
Armrest	18072	EDC mouse raise/work switch fault (NH Only)
DCU	19001	Battery voltage sensing (electrical) _signal high _P0563 Battery voltage evaluation above upper limit
DCU	19002	Battery voltage sensing (electrical) signal low P0562 Battery voltage evaluation below lower limit
DCU	19010	Temperature sensor after catalyst (electrical) _signal high _P042D Catalyst Temperature Sensor Circuit High
DCU	19011	Temperature sensor after catalyst (electrical) signal low P042C Catalyst Temperature Sensor Circuit Low
DCU	19019	Temperature sensor before catalyst (electrical) _signal high _P0428 Catalyst Temperature Sensor Circuit High
DCU	19020	Temperature sensor before catalyst (electrical) signal low P0427 Catalyst Temperature Sensor Circuit Low
DCU	19037	Sensor supply 2 (5V internal; for UREA pressure sensors) _Supply Voltage too high _P204D Reagent -pressure sensor -short circuit high
DCU	19038	Sensor supply 2 (5V internal; for UREA pressure sensors) Supply voltage too low P204C Reagent -pressure sensor -short circuit low
DCU	19046	UREA pressure sensor in box (electrical) Supply voltage error P204A Reagent -pressure sensor -open circuit
DCU	19047	UREA pressure sensor in box (electrical) _signal high _P204D Reagent -pressure sensor -short circuit high
DCU	19048	UREA pressure sensor in box (electrical) signal low P204C Reagent -pressure sensor -short circuit low
DCU	19055	UREA Temperature sensor in box (electrical) _high signal _P2045 Reagent -temperature sensor of pump module -short circuit high
DCU	19056	UREA Temperature sensor in box (electrical) signal low P2044 Reagent -temperature sensor of pump module -short circuit low
DCU	19064	Voltage supply internal heaters 1 (UB1) electrical Open circuit to UB1 P20C5 Pump module - Internal heating -open circuit

DCU	19065	Voltage supply internal heaters 1 (UB1) electrical Short to bat at UB1 with Key 15 off 20C8 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 20C4 Reagent -suction tube heating -short circuit high
DCU	19074	Voltage supply 2 -tube heaters (UB2) electrical Open circuit to UB2 20C1 Reagent -suction tube heating - open circuit
DCU	19075	Voltage supply 2 -tube heaters (UB2) electrical Short circuit to Ground UB2 20C3 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 20A3 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 20A0 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 20A2 Vent valve (Reductant Purge Control Valve) -short circuit low
DCU	19091	Monitoring VDD11 voltage -Dosing valve Supply voltage low 0658 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 203E 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 203C 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 205C Reagent -tank temperature sensor (temperature of the Reagent -solution in the tank) -short circuit low
DCU	19145	Dosing Valve (electrical) Short circuit to batt + 2049 Reductant Injector -circuit high
DCU	19146	Dosing Valve (electrical) Short circuit to ground 2048 Reductant Injector -circuit low
DCU	18147	Dosing Valve (electrical) Open load 2047 Reductant Injector -circuit open
DCU	19148	Dosing Valve (electrical) Dosing valve permanent ON (detection via fast decay) 209B Reagent-dosing nozzle pressure too high
DCU	19154	UREA Pump speed Pump motor unplugged 208B Reagent-pump not delivering
DCU	19155	UREA Pump speed _pump motor blocked _P208A Reagent-pump
DCU	19156	UREA Pump speed Pump overspeed 208D Reagent-pump over speed
DCU	19157	UREA Pump speed All sensors defect 208B Reagent-pump not delivering
DCU	19163	Cooling control valve short circuit to UBat or open load Short circuit to battery 20A3 Vent valve (Reductant Purge Control Valve) -short circuit high
DCU	19164	Cooling control valve short circuit to UBat or open load Open load 20A0 Vent valve (Reductant Purge Control Valve) -open circuit
DCU	19172	Cooling control valve short circuit to ground Short circuit to ground 20A2 Vent valve (Reductant Purge Control Valve) -short circuit low
DCU	19181	Reverting valve (4-2way valve?) electrically Short circuit to battery 20A3 Vent valve (Reductant Purge Control Valve) -short circuit high
DCU	19182	Reverting valve (4-2way valve?) electrically Short circuit to ground 20A2 Vent valve (Reductant Purge Control Valve) -short circuit low
DCU	19183	Reverting valve (4-2way valve?) electrically Open load 20A0 Vent valve (Reductant Purge Control Valve) - open circuit
DCU	19262	Tank heating Valve Short circuit to battery 20B4 Reagent -tank heating valve -short circuit high
DCU	19263	Tank heating Valve Short circuit to ground 20B3 Reagent -tank heating valve -short circuit low
DCU	19264	Tank heating Valve Open load 20B1 Reagent -tank heating valve -open circuit
DCU	19289	Temperature after catalyst too low Downstream catalyst temp -physical (Catalyst heating time failed) 042B Catalyst Temperature Sensor Circuit Range/Performance
DCU	19298	UREA pressure too low at system start UREA pressure too low at system start 208B Reagent pump not delivering
DCU	19307	UREA pressure too high Urea pressure not plausible (urea pressure too high) 204B 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) 2043 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) 205B 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 Ã±commissioningÃ® 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 _Ã±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 Ã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 ÃonÃ 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