

**Fault code list for:**

**Case IH Magnum 235 – 340 (Series 4)**

**New Holland T8.xxx Series**

<b>ATC</b>	
111	Cab sensor open or shorted to power
112	Cab sensor shorted to ground
113	Outlet sensor open or shorted to power
114	Outlet sensor shorted to ground
115	Evaporator sensor open or shorted to power
116	Evaporator sensor shorted to ground
117	Outside air sensor open or shorted to power
118	Outside air sensor shorted to ground
120	Blower speed select pot open/shorted to power
121	Temperature select pot open/shorted to power
122	Mode select pot open/shorted to power
126	High pressure switch (+) input shorted to ground
127	High pressure switch (-) input shorted to power
129	High pressure cycling error (2 in 1 minute)
131	Low pressure switch (+) input shorted to ground
132	Low pressure switch (-) input shorted to power
134	Low pressure switch open for cumulative 60 seconds (no consecutive requirement)

Hitch	
1002	Raise hitch valve coil short to 12 volts or raise hitch valve coil circuit failure.
1003	Open or Short to Ground raise hitch valve coil circuit failure.
1004	Lower hitch valve coil short to 12 volts or lower hitch valve coil circuit failure.
1005	Open or short to ground lower hitch valve coils.
1006	EDC Low Side Driver stuck on failure.
1007	Low side driver watchdog test failed.
1008	Low side of raise solenoid connected permanently to GND
1009	Low side of lower solenoid connected permanently to GND
1011	TCU (Tractor Controller Unit) is disconnected from the CAN bus.
1012	No communication with the ACM (Armrest Controller Module).
1013	No communication with the ICP (Instrument Cluster Panel).
1014	Five-volt reference is above the upper voltage limit.
1015	Five-volt reference is below the lower voltage limit.
1016	Not implemented
1017	Position Command value received over the CAN data bus from the Armrest indicates Position Command potentiometer failed.
1018	Hitch rockshaft position potentiometer open/short/misadjust or circuit failure.
1019	Upper Limit value received from CAN data bus indicates failure condition.
1021	Load Command value received from CAN data bus indicates failure condition.
1022	Single draft pin sensor failed when configured for one draft pin sensor.(CCH Only)
1023	Two draft pin sensors failed when configured for two draft pins.(CCH Only)
1024	ICU CAN data bus signal lost.
1025	Up/Down/Down Momentary switch value received from CAN data bus indicates switch failure.
1026	Up/Down remote fender switch failure.
1027	Not implemented
1028	Travel Range potentiometer value received from CAN data bus indicates failure condition.
1029	Drop Rate value received from CAN data bus indicates potentiometer failure condition.
1030	Right draft pin voltage is outside the normal operating range.(CCH Only)
1031	Left draft pin voltage is outside the normal operating range.(CCH Only)
1032	Ground speed failure-value received from CAN data bus indicates failure condition.
1033	Slip Limit Set Point received from CAN data bus indicates failure condition.
1034	Slip Enable switch received from CAN data bus indicates failure condition.
1035	The Percent slip received from ETC indicates failure condition.
1036	The ARU reports EDC Inching Up switch faulty or not available.
1037	The ARU reports EDC Inching Down switch faulty or not available.
1065	The ARU specified tractor without draft control (position only hitch) but detected presence of draft pin(s).

Hitch	
1066	Engine RPM is too low for lower hitch calibration.
1067	The specified tractor has draft control but no draft pin(s) were detected.
1068	EDC calibration aborted due to tractor moving during EDC calibration.
1069	EDC calibration aborted due to low engine RPM.
1071	PWM raise threshold is too high.
1072	PWM raise threshold is too low.
1073	Not implemented
1074	Hitch pot signal is not within the expected range for maximum hitch position.
1075	PWM lower threshold is too high.
1076	PWM lower threshold is too low.
1077	Operator did not respond to EDC calibration procedure.
1078	Hitch position is not at minimum.
1079	Hitch position range is not within limits.
1080	Hitch position range to position command range ratio is not within limits.
1081	Right draft pin offset voltage is outside the expected voltage range.(CCH Only)
1082	Left draft pin offset voltage is outside the expected voltage range.(CCH Only)
1083	Left and right draft pin offset voltage is outside the expected voltage range.(CCH Only)
1084	EDC is configured with one draft pin but connected to the left side. (CCH Only)
1085	EDC require calibration.
1086	No communication with the PMU controller.
1087	8 volt reference is above 8.8 volts
1088	8 volt reference is below 7.2 volts
1089	12VH1 voltage supply to the hitch raise and lower coils is low. (possible blown fuse*)
1090	Not implemented
1100	EDC Top Link switch stuck on fault.(CCH Only)
1101	EDC Top Link switch input conflict fault.(CCH Only)
1102	EDC Side (Lift) Link switch stuck on fault.(CCH Only)
1103	EDC Side Link switch input conflict fault.(CCH Only)
1104	12VU1 voltage supply to the EDC Lift Link raise and lower coils is low. (possible blown fuse*)(CCH Only)
1105	12VU2 voltage supply to the EDC Top/Side Link load compensation is low. (possible blown fuse*)(CCH Only)
1106	12VH1 voltage supply to the EDC Top/Side Link load compensation is low. (possible blown fuse*)(CCH Only)

<b>Trans</b>	
2009	Seat switch open circuit
2010	Seat switch is shorted to the supply voltage B+ or 5 volt reference
2011	Clutch Pot Open Circuit or short to ground
2012	Clutch Potentiometer Short to +12 Volts or short to 5 Volt reference.
2024	none of the Transmission clutches are calibrated. This will be the condition when a new controller is installed on the tractor.
2037	Bottom of Clutch pedal switch open circuit or bottom of clutch relay is stuck open
2047	Clutch pedal bottom of clutch switch misadjusted.
2048	Bottom of Clutch pedal switch or the bottom of clutch relay are short circuit
2049	
2053	5 volt reference voltage too high.
2054	5 volt reference voltage too low.
2055	No signal from wheel speed sensor.
2056	5 volt internal reference voltage too high.
2057	5 volt internal reference voltage too low.
2059	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.
2070	Forward switch input from the FNR Pod is shorted to +12 Volts or the FNR Pod 5 Volt Reference.
2071	Forward switch input from the FNR Pod is shorted to ground or is open circuit.
2072	Reverse switch input from the FNR Pod is shorted to +12 Volts or the FNR Pod 5 Volt Reference.
2073	Reverse switch input from the FNR Pod is shorted to ground or open circuit.
2074	FNR Not Park Switch low voltage fault
2075	FNR Not Park Switch high Voltage fault
2110	FNR Neutral Switch Low Voltage fault
2111	FNR Neutral Switch high Voltage fault
2326	The Engine RPM sourced from the alternator measured by the controller is excessively high.
2327	No engine RPM
2330	The Transmission output RPM speed, sourced from the sensor, measured by the controller is too high for the desired gear
2331	The transmission clutches are slipping
2342	Clutch Odd solenoid open circuit or short to ground.
2343	Clutch Even solenoid open circuit or short to ground.C33
2344	Clutch C1-2 solenoid open circuit or short to ground.
2345	Clutch C3-4 solenoid open circuit or short to ground.
2346	Clutch 5-6 solenoid open circuit or short to ground.
2374	Master Clutch solenoid open circuit or short to ground.

<b>Trans</b>	
2347	Clutch Low Range solenoid open circuit or short to ground.
2348	110 Clutch Mid Range solenoid open circuit or short to ground.
2349	Clutch High Range solenoid open circuit or short to ground.
2350	Clutch reverse solenoid open circuit or short to ground.
2351	The creeper clutch solenoid is open circuit or short to ground
2353	Even Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2352	Odd Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2354	C1-2 Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off..
2355	C3-4 Clutch Solenoid is shorted to +12 Volts, Current sensed while driver is off.
2356	C5-6 clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2357	Low clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2358	Mid Clutch Solenoid is shorted to +12 Volts, Current sensed while driver is off.
2359	High Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2360	Reverse Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2361	The creeper clutch solenoid is shorted to +12 Volts, current sensed while the driver is off
2362	Master Clutch Solenoid is shorted to +12 Volts, current sensed while driver is off.
2363	The Odd Clutch is not calibrated
2364	Even Clutch not calibrated
2365	C1-2 Clutch not calibrated
2366	C3-4 Clutch not calibrated
2367	C5-6 Clutch not calibrated
2368	Low Range Clutch not calibrated
2369	Mid Range Clutch not calibrated
2370	High Clutch not calibrated
2371	Reverse Clutch not calibrated
2372	Creep Clutch is not calibrated
2373	Master Clutch not calibrated
2800	Auto Guidance Isolation valve driver Fault
2805	System pressure valve solenoid circuit is open circuit or shorted to ground
2806	System pressure solenoid is shorted to B+
2807	Transmission output rpm over speed
2809	The battery voltage is too low to permit operation of the clutch solenoids.
2811	Transmission Oil Temperature Hot
2812	Transmission Oil Temperature sensor short to B+ or open circuit
2813	Transmission oil temperature Sensor Short to Ground
2814	Integrated Control Panel off line
2815	Governor Engine RPM alternator engine RPM mismatch
2816	Transmission regulated pressure accumulator is flat
2817	Governor is offline CAN bus
2818	Communication lost with the Armrest Control Module(ACM)

<b>Trans</b>	
2819	Communication lost with the instrumentation controller.
2820	System pressure low possible System pressure hydraulic pump failure or leak
2821	System Pressure Low fault
2850	The Park Brake is stuck on by no electrical power supplied when commanded on
2851	The Park Brake Driver has detected an over current or an open circuit condition
2852	The Park Brake is stuck on by no electrical power supplied to the solenoid when driver is commanded on. Possible service brake bottom brake switches open.
2055	No signal from wheel speed sensor.
2873	Software is out of the calibration mode and the park brake request is still active. If this fault is detected there is a bug in the software
2874	The park brakes commanded on and gear is engaged and there is no park brake request from calibration. If this fault is detected there is a bug in the software
2900	Torque sensor Gap is on the larger end of the tolerance (CCH Only)
2901	Signal received from the torque sensor is not in any fault range or normal range tolerance (CCH Only)
2902	Torque sensor has declared an internal fault tolerance (CCH Only)
2903	Torque sensor supply voltage below 4.8 volts tolerance (CCH Only)
2910	12VF1voltage supply is low. (possible blown fuse*)
2911	12VT1voltage supply is low. (possible blown fuse*)
2912	12VF2voltage supply is low. (possible blown fuse*)
2913	12VHvoltage supply is low. (possible blown fuse*)
2914	12VF3voltage supply is low. (possible blown fuse*)
2915	12VS1voltage supply is low. (possible blown fuse*)

<b>Engine</b>	
3000 (or 3999)	Unknown ECM Error Code Received
3001	Foot Throttle Sensor -Signal Not Plausible
3002	Foot Throttle Sensor -Signal Above Range Max.
3003	Foot Throttle Sensor -Signal Below Range Min.
3004	Foot Throttle Sensor -No Signal -Error
3006	Coolant Temperature Sensor -Signal Not Plausible(Compared with Engine Oil Temperature)
3007	Coolant Temperature Sensor -Signal Above Range Max.
3008	Coolant Temperature Sensor -Signal Below Range Min.
3009	Coolant Temperature Sensor -(via CAN) No Signal
3010	Air Intake Temperature Sensor -Signal Above Range Max.
3011	Air Intake Temperature Sensor -Signal Above Range Min.
3012	Air Intake Temperature Sensor -(via CAN) No Signal
3015	Fuel Temperature Signal -Signal Above Range Max.
3016	Fuel Temperature Signal -Signal Below Range Min.
3019	Boost Pressure Sensor -Signal Above Range Max.
3021	Boost Pressure Sensor -(via CAN) No Signal
3022	Boost Pressure Sensor -Signal Not Plausible
3023	Atmospheric Pressure Sensor -Signal Not Plausible Compared with Boost Pressure
3024	Atmospheric Pressure Sensor -Signal Above Range Max.
3025	Atmospheric Pressure Sensor -Signal Below Range Min.
3028	Oil Pressure Too Low
3029	Oil Pressure Sensor –Short circuit to Battery
3030	Oil Pressure Sensor –Short circuit to Ground
3031	Oil Pressure Sensor -Hardware Error
3032	Oil Pressure Sensor -Value Too High
3033	Oil Temperature Sensor -Signal Not Plausible (Compared with Coolant Temperature)
3034	Oil Temperature Sensor -Signal Above Range Max.
3035	Oil Temperature Sensor -Signal Below Range Min.
3036	Oil Temperature Sensor -(via CAN) No Signal
3037	Boost Pressure Sensor -Signal Low
3038	Constant Engine RPM Activate / Select Switch –Short circuit to Ground
3039	Cruise Control Actuating Device -Evaluation Error
3043	Vehicle Speed Sensing -Hardware Conversion Error
3044	Vehicle Speed Sensing -Signal Above Range Max.
3045	Vehicle Speed Sensing -Signal Below Range Min.
3046	Vehicle Speed Sensing -Signal Not Plausible

<b>Engine</b>	
3047	Main Relay 2 Failure –Short circuit to Battery
3048	Main Relay 2 Failure –Short circuit to Ground
3051	Battery Voltage to ECM too High
3052	Battery Voltage to ECM too Low
3053	Vehicle Speed Sensing (Tacho) -PWM Frequency Too High
3054	Vehicle Speed Sensing (Tacho) -PWM Average Frequency Above Limit
3055	Vehicle Speed Sensing (Tacho) -PWM Average Frequency Below Limit
3056	Vehicle Speed Sensing (Tacho) -Not Plausible
3057	Timeout of CAN Message High Resolution Wheel Speed
3058	Timeout of CAN Message Vehicle Dynamics Control Unit
3059	ECM After run was Interrupted
3060	Cylinder1 -Unclassifiable Error in Injector
3061	Cylinder1 -Injector Cable Short circuit (Low Side to Battery)
3062	Cylinder1 -Application Dependent
3063	Cylinder1 -Injector Cable Short circuit (High Side to Ground)
3064	Cylinder5 -Unclassifiable Error in Injector
3065	Cylinder5 -Injector Cable Short circuit (Low Side to Battery)
3066	Cylinder5 -Application Dependent
3067	Cylinder5 -Injector Cable Short circuit (High Side to Ground)
3068	Cylinder3 -Unclassifiable Error in Injector
3069	Cylinder3 -Injector Cable Short circuit (Low Side to Battery)
3070	Cylinder3 -Application Dependent
3071	Cylinder3 -Injector Cable Short circuit (High Side to Ground)
3072	Cylinder6 -Unclassifiable Error in Injector
3073	Cylinder6 -Injector Cable Short circuit (Low Side to Battery)
3074	Cylinder6 -Application Dependent
3075	Cylinder6 -Injector Cable Short circuit (High Side to Ground)
3076	Cylinder2 -Unclassifiable Error in Injector
3077	Cylinder2 -Injector Cable Short circuit (Low Side to Battery)
3078	Cylinder2 -Application Dependent
3079	Cylinder2 -Injector Cable Short circuit (High Side to Ground)
3080	Cylinder4 -Unclassifiable Error in Injector
3081	Cylinder4 -Injector Cable Short circuit (Low Side to Battery)
3082	Cylinder4 -Application Dependent
3083	Cylinder4 -Injector Cable Short circuit (High Side to Ground)
3088	Crankshaft Sensor -No Signal
3089	Crankshaft Sensor -Invalid Signal
3090	Camshaft Sensor -No Signal
3091	Camshaft Sensor -Invalid Signal
3092	Offset Between Camshaft and Crankshaft -Not Plausible

<b>Engine</b>	
3093	Offset Between Camshaft and Crankshaft -Outside Boundaries
3095	Operating with Camshaft Sensor Only -Backup Mode
3096	Tier 3: ECM Bus Off on CAN A Tier 4a: ECM Bus Off on Vehicle CAN
3097	ECM Bus Off on Engine private CAN
3098	Timeout of CAN Message TSC1-TE (When Active)
3099	Timeout of CAN Message TSC1-TE (When Inactive)
3100	Timeout of CAN Message TSC1-AE (When Active)
3101	Timeout of CAN Message TSC1-AE (When Inactive)
3102	Rail Pressure Sensor CP3 -Signal Below Range Min.
3104	Rail Pressure Relief Valve -Open
3105	Rail Pressure Relief Valve -Pressure Shock Requested
3106	Rail Pressure Relief Valve -Did Not Open After Pressure Shock
3107	Metering Unit –Short circuit to Battery
3108	Metering Unit –Short circuit to Ground
3110	Rail Pressure Sensor Offset Monitoring -Value above Limit
3111	Rail Pressure Sensor Offset Monitoring -Value below Limit
3112	Rail Pressure Sensor CP3 -Signal Above Range Max.
3113	Main Relay 1 (High Pressure Pump -power supply to the fuel metering unit) -Short to Battery
3114	Main Relay 1 (High Pressure Pump -power supply to the fuel metering unit) Short to Ground
3117	PTO Twist Sensor -Out of Range
3118	ECM 12V Sensor Supply Voltage High
3119	ECM 12V Sensor Supply Voltage Low
3120	PTO Twist Sensor -Not Plausible
3121	PTO Twist Sensor -Open Circuit
3122	PTO Twist Sensor –Short circuit to Ground
3123	PTO Twist Sensor -Not Calibrated
3124	Hand Throttle -Channel 2 Above Range Max.
3125	Hand Throttle -Channel 2 Below Range Min.
3126	Hand Throttle -Channel 1 Signal Above Range Max.
3127	Hand Throttle -Channel 1 Signal Below Range Min.
3128	Hand Throttle -Channel Difference Error
3129	Hand Throttle -Idle Switch Closed Circuit
3130	Hand Throttle -Idle Switch Open Circuit
3131	Grid Heater Always Switched On
3133	Cold Start Lamp -No Load
3134	Cold Start Lamp –Short circuit to Battery
3135	Cold Start Lamp –Short circuit to Ground
3136	Cold Start Lamp -Excessive Temperature
3137	Metering Unit -Open Load
3138	Metering Unit -Temperature Too High

<b>Engine</b>	
3139	Metering Unit Signal Range Check -Signal Too High
3140	Metering Unit Signal Range Check -Signal Too Low
3141	Fuel Flow Set point Too Low
3142	High Pressure Test -Test Active
3143	Grid Heater Switch Off Test (Voltage Drop Too High)
3144	Grid Heater Switch Off Test (Voltage Drop Too Low)
3145	Terminal 15 -No Signal
3146	Water Detected In Fuel
3147	Oil Temperature Too High
3148	Coolant Temperature Sensor Dynamic Test -Failure (Minimum Temperature Raise Not Reached)
3149	Coolant Temperature Sensor Test -Failure (Minimum Temperature Not Reached)
3150	System/Amber Warning Lamp –Short circuit to Battery
3151	System/Amber Warning Lamp –Short circuit to Ground
3152	System/Amber Warning Lamp -No Load
3153	System/Amber Warning Lamp -Excessive Temperature
3154	Grid Heater Relay –Short circuit to Battery
3155	Grid Heater Relay –Short circuit to Ground
3156	Grid Heater Relay -No Load
3157	ECM Not Detected on CAN bus
3158	Invalid ECM Checksum
3159	Invalid Engine Reference Torque
3160	Fan Actuator –Short circuit to Battery
3161	Fan Actuator –Short circuit to Ground
3162	Fan Actuator -Open Load
3163	Fan Actuator -Temperature Too High
3164	Fan Speed Sensor –Signal High
3165	Fan Speed Sensor -Signal Low
3166	Fuel Filter Heater Relay –Short circuit to Battery
3167	Fuel Filter Heater Relay –Short circuit to Ground
3168	Fuel Filter Heater Relay -Open Load
3169	Fuel Filter Heater Relay -Signal Not Plausible
3176	Set point of Metering Unit Not Plausible in Overrun
3177	Engine Over speed Detected
3178	Timeout of CAN Message BC2EDC1
3179	Timeout of CAN Message BC2EDC2
3180	Timeout of CAN Message VCM2EDC
3181	Rail Pressure Positive Deviation Too High Concerning Set point
3182	Timeout of CAN Message RxCCVS
3183	Timeout of CAN Message TSC1-VR (When Active)
3184	Timeout of CAN Message TSC1-VR (When Inactive)

<b>Engine</b>	
3185	Timeout of CAN message TF
3186	Cylinder1 Warning -Fast Decay Error
3187	Cylinder1 Warning -Application Dependent
3188	Cylinder1 Warning -Injector Circuit Low
3189	Cylinder1 Warning -Current Level Error
3190	Cylinder2 Warning -Fast Decay Error
3191	Cylinder2Warning -Application Dependent
3192	Cylinder2 Warning -Open Load
3193	Cylinder2 Warning -Current Level Error
3194	Cylinder3 Warning -Fast Decay Error
3195	Cylinder3 Warning -Application Dependent
3196	Cylinder3 Warning -Open Load
3197	Cylinder3 Warning -Current Level Error
3198	Cylinder4 Warning -Fast Decay Error
3199	Cylinder4 Warning -Application Dependent
3200	Cylinder4 Warning -Open Load
3201	Cylinder4 Warning -Current Level Error
3202	Cylinder5 Warning -Fast Decay Error
3203	Cylinder5 Warning -Application Dependent
3204	Cylinder5 Warning -Open Load
3205	Cylinder5 Warning -Current Level Error
3206	Cylinder6 Warning -Fast Decay Error
3207	Cylinder6 Warning -Application Dependent
3208	Cylinder6 Warning -Open Load
3209	Cylinder6 Warning -Current Level Error
3210	Bank1 -General Short circuit on Injection Cable
3211	Bank1 -Injection Cable Short circuit Low Side to Ground
3212	Bank1 -Application Dependent
3213	Bank1 -Unclassifiable Error
3214	Bank1 Warning -Application Dependent
3215	Bank1 Warning -Application Dependent
3216	Bank1 Warning -Open Load
3217	Bank1 Warning -Unclassifiable Error
3218	Bank2-General Short circuit on Injection Cable
3219	Bank2 -Injection Cable Short circuit Low Side to Ground
3220	Bank2 -Application Dependent
3221	Bank2 -Unclassifiable Error
3222	Bank2 Warning -Application Dependent
3223	Bank2 Warning -Application Dependent
3224	Bank2 Warning -Open Load

<b>Engine</b>	
3225	Bank2 Warning -Unclassifiable Error
3226	Messages SRA2EDC
3227	Injection Processor (CY33X) Error -Internal Reset / Clock Loss / Voltage Too Low
3228	Injection Processor (CY33X) Error -Unlocked / Initialization Failure
3229	Injection Processor (CY33X) Error -Injections Limited By Software
3230	Injection Processor (CY33X) Error -SPI Communication Failure
3231	Injection Processor Error -Internal Reset / Clock Loss / Voltage Too Low
3232	Injection Processor Error -Unlocked / Initialization Failure
3233	Injection Processor Error -Test Mode
3234	Injection Processor Error -SPI Communication Failure
3235	Number of Injections Limited -by Charge Balance
3236	Number of Injections Limited -by Quantity Balance
3237	Number of Injections Limited -by Software
3238	ECM Internal SPI Communication Error -CJ940
3239	ECM EEPROM -Read Operation Failure
3240	ECM EEPROM -Write Operation Failure
3241	ECM EEPROM -Default Value Used
3242	ECM (Locked) Recovery Occurred
3243	ECM (Suppressed) -Recovery Occurred
3244	ECU Recovery (Visible) -Recovery Occurred
3245	ECM Processor -Watchdog Not Plausible
3246	Shutoff Paths During Initialization -Watchdog
3247	Shutoff Paths During Initialization -Supply Voltage Too High
3248	Shutoff Paths During Initialization -Supply Voltage Too Low
3249	TPU Monitoring -Time Deviation between TPU and System Not Plausible
3250	Dataset -Variant Defect
3251	Dataset -Requested Variant Could Not Be Set
3252	Controller Watchdog -SPI Communication Failure
3253	ADC Monitoring -Reference Voltage Too High
3254	ADC Monitoring -Reference Voltage Too Low
3255	ADC Monitoring -Test Impulse Error
3256	ADC Monitoring -Queue Error
3257	Turbine Speed and Air Pressure Too High
3258	High Side Power -Short circuit to Battery
3259	High Side Power -Short circuit to Ground
3260	Low Side Power -Open Load
3261	Low Side Power -Short circuit to Battery of Excess Temperature
3262	Low Side Power -Short circuit to Ground
3263	ECM Bus Off on CAN C
3264	Immobilizer -Injection Disabled

<b>Engine</b>	
3265	Overrun Monitoring -Injection Time Too Long
3266	Redundant Engine Speed in Overrun Monitoring -Speed Signal Not Plausible
3267	Main relay 3 –Short circuit to Battery
3268	Main relay 3 –Short circuit to Ground
3269	Grid Heater Switch On Test -Voltage Drop Too High
3270	Grid Heater Switch On Test -Voltage Drop Too Low
3271	Fuel Low Pressure Sensor -(via CAN) No Signal
3272	Fuel Low Pressure Sensor -Signal Above Range Max.
3273	Fuel Low Pressure Sensor -Signal Below Range Min.
3274	Fuel Low Pressure Sensor Dynamic Plausibility Test -Above Map
3275	Fuel Low Pressure Sensor Dynamic Plausibility Test -Below Map
3276	MIL Visualization Not Available for BC2EDC1
3277	Timeout of CAN Message Dashboard Display
3278	ECM Internal Supply Voltage Too High -CJ940 Above Limit
3279	ECM Internal Supply Voltage Too Low -CJ940 Below Limit
3280	Sensor Supply Voltage 1 -High
3281	Sensor Supply Voltage 1 - Low
3282	Timeout of CAN Message WSI (Wheel Speed Info)
3283	Sensor Supply Voltage 2 -High
3284	Sensor Supply Voltage 2 - Low
3285	Sensor Supply Voltage 3 -High
3286	Sensor Supply Voltage 3 - Low
3287	Turbo Compound Monitoring -No Signal
3288	Turbo Compound Monitoring -Signal High
3289	Turbo Compound Monitoring -Signal Low
3290	Turbo Compound Monitoring -Signal Not Plausible
3291	Cylinder 1 Specific Errors -No Signal
3292	Cylinder 1 Specific Errors -Signal Low
3293	Cylinder 1 BIP Search Failure -Too Many Unsuccessful Searched
3294	Cylinder 1 Specific Errors -Signal Not Plausible
3295	Cylinder 2 Specific Errors -No Signal
3296	Cylinder 2 Specific Errors -Signal Low
3297	Cylinder 2 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure Positive Deviation High and High Fuel Flow Set point Value
3298	Cylinder 2 Specific Errors -Signal Not Plausible
3299	Cylinder 3 Specific Errors -No Signal
3300	Cylinder 3 Specific Errors -Signal Low
3301	Cylinder 3 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure Negative Deviation too High on Minimum Metering
3302	Cylinder 3 Specific Errors -Signal Not Plausible
3303	Cylinder 4 Specific Errors -No Signal

<b>Engine</b>	
3304	Cylinder 4 Specific Errors -Signal Low
3305	Cylinder 4 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure below Minimum Limit in Controlled Mode
3306	Cylinder 4 Specific Errors -Signal Not Plausible
3307	Cylinder 5 Specific Errors -No Signal
3308	Cylinder 5 Specific Errors -Signal Low
3309	Cylinder 5 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure above Maximum Limit in Controlled Mode
3310	Cylinder 5 Specific Errors -Signal Not Plausible
3311	Cylinder 6 Specific Errors -No Signal
3312	Cylinder 6 Specific Errors -Signal Low
3313	Cylinder 6 BIP Search Failure -Too Many Unsuccessful Searches - Rail Pressure Drop Rate too High
3314	Cylinder 6 Specific Errors -Signal Not Plausible
3315	Minimum Number of Injections Not Reached -Stop Engine
3316	Minimum Number of Injections Not Reached -Stop Engine
3317	Minimum Number of Injections Not Reached -Stop Engine
3318	Minimum Number of Injections Not Reached -Stop Engine
3319	DM1DCU SPN2 message -Error in DCU active
3320	DM1DCU SPN3 message -Error in DCU active
3321	Timeout of CAN Message DM1DCU SPN4
3322	Timeout of CAN Message ERC1DR
3323	Timeout of CAN Message RxAMCONlv (Ambient Conditions)
3324	Timeout of CAN Message EBC1 (Electronic Brake Switch)
3325	Timeout of CAN Message ETC1 (Transmission)
3326	Timeout of CAN Message ETC2 (Transmission)
3327	Timeout of CAN Message TCO1 (Tachograph)
3328	Timeout of CAN Message TSC1-AR (When Inactive)
3329	Timeout of CAN Message TSC1-AR (When Active)
3330	Timeout of CAN Message TSC1-DE (When Inactive)
3331	Timeout of CAN Message TSC1-DE (When Active)
3332	Timeout of CAN Message TSC1-DR (When Inactive)
3333	Timeout of CAN Message TSC1-DR (When Active)
3334	Timeout of CAN message TSC1-PE Torque (When Active)
3335	Timeout of CAN message TSC1-PE Torque (When Inactive)
3336	Timeout of CAN Message TSC1-TR (When Inactive)
3337	Timeout of CAN Message TSC1-TR (When Active)
3338	Timeout of CAN message TSC1-VE Speed (When Inactive)
3339	Timeout of CAN message TSC1-VE Speed (When Active)
3340	Timeout of CAN Message Time Date
3341	Timeout of CAN Message HRVD (High Resolution Vehicle Distance)

Engine	
3342	Power Stage Air Heater 2 Actuator -No Signal
3343	Power Stage Air Heater 2 Actuator -Signal High
3344	Power Stage Air Heater 2 Actuator -Signal Low
3345	Total Throttle Failure (Only applies to Dual Throttle Vehicles)
3346	Multiple State Switch
3347	Multiple State Switch
3348	Multiple State Switch
3349	Multiple State Switch
3350	Terminal 50 -Always On
3351	Engine Brake Decompression Valve -Open Load
3352	Engine Brake Decompression Valve –Short circuit to Battery
3353	Engine Brake Decompression Valve –Short circuit to Ground
3354	Main Relay 4 (Engine Brake Exhaust Valve) –Short circuit to Ground
3355	Main Relay 4 (Engine Brake Exhaust Valve) -Short to Battery or open load
3356	Cylinder Shutoff (Cylinder Balancing Disabled) -Shutoff Active
3357	Misfire in Multiple Cylinders -Too Many Misfires
3358	CAN Transmit Timeout
3359	TSC Demand Physically Implausible
3360	Driving Dynamic Control -Not Plausible
3361	ECM EEPROM -General Error
3362	Torque to Quantity Map -Not Plausible
3363	Atmospheric Pressure Sensor -Processed via ADC (no CAN Plausibility Performed)
3364	Foot Pedal 2 -Signal Too High
3365	Foot Pedal 2 -Signal Too Low
3366	Foot Pedal 2 -Signal Not Plausible Compared to Foot Pedal 1
3367	Coolant Temperature Test Failure
3368	Info: Torque Limitation due to OBD Performance Limiter by Legislation
3369	Torque Reduction due to Smoke Limitation
3370	Info: Torque Limitation due to Engine Protection (against Excessive Torque, Engine Over speed and Overheat)
3371	Info: Torque Limitation due to Fuel Quantity Limitation because of Injection System Errors
3372	Injection Quantity Adjustment failure -Invalid Adjustment Value
3373	Injection Quantity Adjustment failure -EEPROM Adjustment Value Not Readable
3374	Injection Quantity Adjustment failure -Invalid EEPROM Adjustment Value Checksum
3375	Constant Engine RPM Increase / Decrease Switch –Short circuit to Battery
3376	Engine Controller Software Does Not Support Power Management (Engine Power Management Option Enabled, but Engine Software Not Compatible)
3377	Constant Engine RPM Switch Detected but Option Not Enabled.
3380	Engine Fan Increase Speed Error (open or short circuit)
3381	Engine Fan Decrease Speed Error (open or short circuit)
3382	Fan Control Solenoid Short To 12Vr

<b>Engine</b>	
3383	Fan Control Solenoid Open Or Short To GND
3384	Vistronic Engine Cooling Fan driver open or short circuit
3399	Engine Fuel Lift Pump relay driver over current fault
3513	SCR Catalyst not present –Relation of temperature behavior between both Catalyst Temperatures not plausible
3517	Ambient Air Temperature Sensor failure (of Humidity Sensor) -Signal too high
3518	Ambient Air Temperature Sensor failure (of Humidity Sensor) -Signal too low
3519	Ambient Air Temperature Sensor failure (of Humidity Sensor) -CAN Signal failure
3521	NOx Estimation failure -Estimated Nox signal not reliable
3528	NOx Sensor Plausibility failure -Signal not plausible
3529	NOx Sensor Failure -Open Load
3530	NOx Sensor Failure -Short Circuit
3532	NOx Sensor Failure -Sensor not ready in time
3533	CAN Message timeout Nox (from Nox Sensor) -CAN timeout
3537	CAN Message timeout DM1DCU (from DCU) -CAN timeout
3541	CAN Message timeout SCR1 (from DCU) -CAN timeout
3545	Info: SCR Dosing Valve Overheat Protection -Torque Limitation Level2 for SCR Protection active
3546	Info: SCR Dosing Valve Overheat Protection -Torque Limitation Level1 for SCR Protection active
3549	Humidity Sensor Signal Ratio failure -Signal Ratio above Limit
3550	Humidity Sensor Signal Ratio failure -Signal Ratio below Limit
3555	CAN Message timeout SCR2 (from DCU)-CAN timeout
3557	Info: Humidity Sensor possibly saturated with water droplets -Signal Ratio above Limit
3558	Info: Humidity Sensor possibly saturated with water droplets -Signal Ratio below Limit
3561	NOx value not plausible (After treatment plausibility)
3565	Urea quality and urea warning level 1
3569	urea quality and urea warning level 2
3573	urea quality and urea warning level 3
3577	DM1DCU SPN1 message -Error in DCU active
3581	Performance limit active due to either stage -Performance Limitation active

<b>EHR</b>	
4004	ACM (GARU) Offline
4005	Levers are not calibrated at power up
4100	Rear Remote No.1 -No EHR Control Messages
4101	Rear Remote No.1 -Implausible EHR Control Messages
4102	Rear Remote No.1 -Checksum Verification Failure
4103	Rear Remote No.1 -Neutral Set point
4104	Rear Remote No.1 -Under Voltage
4105	Rear Remote No.1 -Over Voltage
4106	Rear Remote No.1 -Spool Deflection Too Short
4107	Rear Remote No.1 -Spool Deflection Excessive
4108	Rear Remote No.1 -Open Center Position Not Reached
4109	Rear Remote No.1 -Manual Operation
4110	Rear Remote No.1 -Output Stage Faulty
4111	Rear Remote No.1 -Position Transducer Faulty
4112	Rear Remote No.1 -Spool Cannot be Brought Back to Neutral
4113	Rear Remote No.1 -Spool Not in Neutral When Switched On
4114	Rear Remote No.2 -No EHR Control Messages
4115	Rear Remote No.2 -Implausible EHR Control Messages
4116	Rear Remote No.2 -Checksum Verification Failure
4117	Rear Remote No.2 -Neutral Set point
4118	Rear Remote No.2 -Under Voltage
4119	Rear Remote No.2 -Over Voltage
4120	Rear Remote No.2 -Spool Deflection Too Short
4121	Rear Remote No.2 -Spool Deflection Excessive
4122	Rear Remote No.2 -Open Center Position Not Reached
4123	Rear Remote No.2 -Manual Operation
4124	Rear Remote No.2 -Output Stage Faulty
4125	Rear Remote No.2 -Position Transducer Faulty
4126	Rear Remote No.2 -Spool Cannot be Brought Back to Neutral
4127	Rear Remote No.2 -Spool Not in Neutral When Switched On
4128	Rear Remote No.3 -No EHR Control Messages
4129	Rear Remote No.3 -Implausible EHR Control Messages
4130	Rear Remote No.3 -Checksum Verification Failure
4131	Rear Remote No.3 -Neutral Set point
4132	Rear Remote No.3 -Under Voltage
4133	Rear Remote No.3 -Over Voltage
4134	Rear Remote No.3 -Spool Deflection Too Short

<b>EHR</b>	
4135	Rear Remote No.3 -Spool Deflection Excessive
4136	Rear Remote No.3 -Open Center Position Not Reached
4137	Rear Remote No.3 -Manual Operation
4138	Rear Remote No.3 -Output Stage Faulty
4139	Rear Remote No.3 -Position Transducer Faulty
4140	Rear Remote No.3 -Spool Cannot be Brought Back to Neutral
4141	Rear Remote No.3 -Spool Not in Neutral When Switched On
4142	Rear Remote No.4 -No EHR Control Messages
4143	Rear Remote No.4 -Implausible EHR Control Messages
4144	Rear Remote No.4 -Checksum Verification Failure
4145	Rear Remote No.4 -Neutral Set point
4146	Rear Remote No.4 -Under Voltage
4147	Rear Remote No.4 -Over Voltage
4148	Rear Remote No.4 -Spool Deflection Too Short
4149	Rear Remote No.4 -Spool Deflection Excessive
4150	Rear Remote No.4 -Open Center Position Not Reached
4151	Rear Remote No.4 -Manual Operation
4152	Rear Remote No.4 -Output Stage Faulty
4153	Rear Remote No.4 -Position Transducer Faulty
4154	Rear Remote No.4 -Spool Cannot be Brought Back to Neutral
4155	Rear Remote No.4 -Spool Not in Neutral When Switched On
4156	Rear Remote No.5 -No EHR Control Messages
4157	Rear Remote No.5 -Implausible EHR Control Messages
4158	Rear Remote No.5 -Checksum Verification Failure
4159	Rear Remote No.5 -Neutral Set point
4160	Rear Remote No.5 -Under Voltage
4161	Rear Remote No.5 -Over Voltage
4162	Rear Remote No.5 -Spool Deflection Too Short
4163	Rear Remote No.5 -Spool Deflection Excessive
4164	Rear Remote No.5 -Open Center Position Not Reached
4165	Rear Remote No.5 -Manual Operation
4166	Rear Remote No.5 -Output Stage Faulty
4167	Rear Remote No.5 -Position Transducer Faulty
4168	Rear Remote No.5 -Spool Cannot be Brought Back to Neutral
4169	Rear Remote No.5 -Spool Not in Neutral When Switched On
4170	Rear Remote No.1 -Lever Not Calibrated
4173	Rear Remote No.2 -Lever Not Calibrated
4177	Rear Remote No.3 -Lever Not Calibrated
4180	Rear Remote No.4 -Lever Not Calibrated
4190	EHR 1 Offline Err

<b>EHR</b>	
4191	EHR 2 Offline Err
4192	EHR 3 Offline Err
4193	EHR 4 Offline Err
4198	EHR 5 Offline Err
4216	Rear Remote No.1 -Valve Spool Not Calibrated
4217	Rear Remote No.2 -Valve Spool Not Calibrated
4218	Rear Remote No.3 -Valve Spool Not Calibrated
4219	Rear Remote No.4 -Valve Spool Not Calibrated
4220	Rear Remote No.5 -Valve Spool Not Calibrated
4301	Rear Remote No.6 -No EHR Control Messages
4302	Rear Remote No.6 -Implausible EHR Control Messages
4303	Rear Remote No.6 -Checksum Verification Failure
4304	Rear Remote No.6 -Neutral Set point
4305	Rear Remote No.6 -Under Voltage
4306	Rear Remote No.6 -Over Voltage
4307	Rear Remote No.6 -Spool Deflection Too Short
4308	Rear Remote No.6 -Spool Deflection Excessive
4309	Rear Remote No.6 -Open Center Position Not Reached
4310	Rear Remote No.6 -Manual Operation
4311	Rear Remote No.6 -Output Stage Faulty
4312	Rear Remote No.6 -Position Transducer Faulty
4313	Rear Remote No.6 -Spool Cannot be Brought Back to Neutral
4314	Rear Remote No.6 -Spool Not in Neutral When Switched On
4315	Rear Remote No.7 -No EHR Control Messages
4316	Rear Remote No.7 -Implausible EHR Control Messages
4317	Rear Remote No.7 -Checksum Verification Failure
4318	Rear Remote No.7 -Neutral Set point
4319	Rear Remote No.7 -Under Voltage
4320	Rear Remote No.7 -Over Voltage
4321	Rear Remote No.7 -Spool Deflection Too Short
4322	Rear Remote No.7 -Spool Deflection Excessive
4323	Rear Remote No.7 -Open Center Position Not Reached
4324	Rear Remote No.7 -Manual Operation
4325	Rear Remote No.7 -Output Stage Faulty
4326	Rear Remote No.7 -Position Transducer Faulty
4327	Rear Remote No.7 -Spool Cannot be Brought Back to Neutral
4328	Rear Remote No.7 -Spool Not in Neutral When Switched On
4329	Rear Remote No.8 -No EHR Control Messages
4330	Rear Remote No.8 -Implausible EHR Control Messages
4331	Rear Remote No.8 -Checksum Verification Failure

<b>EHR</b>	
4332	Rear Remote No.8 -Neutral Set point
4333	Rear Remote No.8 -Under Voltage
4334	Rear Remote No.8 -Over Voltage
4335	Rear Remote No.8 -Spool Deflection Too Short
4336	Rear Remote No.8 -Spool Deflection Excessive
4337	Rear Remote No.8 -Open Center Position Not Reached
4338	Rear Remote No.8 -Manual Operation
4339	Rear Remote No.8 -Output Stage Faulty
4330	Rear Remote No.8 -Position Transducer Faulty
4341	Rear Remote No.8 -Spool Cannot be Brought Back to Neutral
4342	Rear Remote No.8 -Spool Not in Neutral When Switched On
4343	Rear Remote No.5 -Lever Not Calibrated
4344	Rear Remote No.6 -Lever Not Calibrated
4345	Rear Remote No.7 -Lever Not Calibrated
4346	Rear Remote No.8 -Lever Not Calibrated
4347	EHR 6 Offline Err
4348	EHR 7 Offline Err
4349	EHR 8 Offline Err
4350	Rear Remote No.6 -Valve Spool Not Calibrated
4351	Rear Remote No.7 -Valve Spool Not Calibrated
4352	Rear Remote No.8 -Valve Spool Not Calibrated
4353	EHR FB 1High Err
4354	EHR FB 1 Low Err
4355	EHR FB 3 High Err
4356	EHR FB 3 Low Err
4357	EHR Implement Lower Error
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.
5002	PTO switch interlock
5003	Auto PTO switch data is set to the error state(CCH Only)
5004	Auto PTO switch stuck on condition(CCH Only)
5005	PTO remote fender switch short(CCH Only)
5006	PTO remote fender switch open(CCH Only)
5007	PTO remote fender switch stuck on(CCH Only)
5008	Both PTO On and Off switches are simultaneously on. One of the PTO switches is short to 12 volts.
5009	PTO solenoid open circuit or shorted to ground or AD12vs2 voltage is low.
5010	PTO solenoid circuit shorted to B+ when PTO is in the off state.
5011	Driver is on and no current is sensed.
5012	PTO clutch is slipping excessively for the duration of 5 seconds or longer.
5013	Engine speed is too low for the PTO to be in the 'on' state.
5014	PTO is commanded off but the PTO speed greater than zero.
5015	The software has not detected PTO shaft speed for greater than 3 seconds since the PTO initial fill vale was commanded
5016	PTO speed is detected when the PTO is in the off state without engine RPM.
5017	PTO clutch did not lock up after 6 seconds of clutch motion.
5018	PTO speed sensors wiring swapped (CCH Only)
5019	PTO is configured as a two speed and no shaft size frequency was detected when the PTO was switched on. (CCH Only)
5020	PTO is configured as a single speed and the shaft size frequency was detected when the PTO was switched on. Shaft size frequency input is only used for two speeds PTO.(CCH Only)
5021	Auto PTO disabled(CCH Only)
5022	PTO switch is in the on position when the engine is off.
5023	PTO clutch lube solenoid circuit shorted to B+ when PTO is in the off state.(4WD Only)
5024	PTO clutch lube solenoid open circuit or shorted to ground or +12 VF3 voltage is low.(4WD Only)
5025	
5026	12VS2voltage supply is low. (possible blown fuse*)
5027	Low side of PTO solenoid connected permanently to GND
5028	Clutch speed sensor open or short to Vbat
5029	Clutch speed sensor short to GND
5030	Shaft size speed sensor open or short to Vbat(CCH Only)
5031	Shaft size speed sensor short to GND(CCH Only)
5032	12VF3voltage supply is low. (possible blown fuse*)

<b>MFD/Diff Lock</b>	
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
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
6003	Brake light relay fault. 1. Short to 12 volts 2. Open circuit or short to ground.
6004	CAN-BUS indicating Rear Diff Lock Switch failed in the armrest. Possible failure modes: 1. Rear Diff Lock Switch failed in Armrest 2. Auto Diff Lock Switch failed in Armrest (CCH Only) 3. Communication problems between the TCU controller and the Armrest controller
6005	Rear Differential Lock and Auto Differential Lock (Only CCH): 1. Diff Lock On and Auto Diff Lock switches are both active
6006	CAN-BUS indicating MFD (CCH) or Front Diff Lock (4WD) Switch failed in the armrest. Possible failure modes: 1. MFD (CCH) or Front Diff Lock (4WD) failed in Armrest 2. Auto MFD Switch failed in Armrest, (CCH). 3. Communication problems between the TCU controller and the Armrest
6007	Both MFD and Auto MFD switches active fault
6008	Steering angle sensor above maximum voltage limit.
6009	Steering angle sensor below minimum voltage limit.
6010	12VS1 voltage supply is low. (possible blown fuse*)
6011	12VS2 voltage supply is low. (possible blown fuse*)

<b>Front PTO</b>	
8001	Front PTO cab switch is on during tractor power up.
8002	Front PTO cab switch open
8003	Front PTO cab switch short
8004	Front PTO solenoid open circuit or shorted to ground or AD12VU2 voltage is low.
8005	Front PTO solenoid circuit shorted to B+ when Front PTO is in the off state.
8006	Low side driver is stuck on and no current is sensed.
8007	Front PTO switch is in the on position when the engine is off.
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
10002	Front suspension rod Side Valve solenoid is open circuit or shorted to ground
10003	Front suspension piston Side Valve solenoid is open circuit or shorted to ground
10004	Front Suspension Position sensor out of Range High Error
10005	Front Suspension Position sensor out of Range Low Error
10006	Front suspension will not raise error
10007	Front Suspension will not Lower error
10008	Front Suspension Piston Pressure transducer range high error
10009	Front Suspension Piston Pressure transducer range lower error
10010	Front Suspension Rod Pressure transducer range high error
10011	Front Suspension Rod Pressure transducer range lower error
10012	Front suspension Rod side pressure will not raise error
10013	Front suspension piston side pressure will not raise error
10014	Front Suspension Not calibrated error
10015	Front suspension Lock Valve Solenoid is open circuit or is shorted to ground.
10016	FSUS_ENABLE_SW_ERR 10016
10017	FSUS_ENABLE_SW_NA_ERR10017
10018	Front Suspension Pump not tank Solenoid over current
10019	Front Suspension rod Side Solenoid over current
10020	Front Suspension piston Solenoid over current
10021	Front Suspension lock out Solenoid over current
10022	12VM voltage supply is low. (possible blown fuse*)
10023	12VF3 voltage supply is low. (possible blown fuse*)
10024	12VF1 voltage supply is low. (possible blown fuse*)

ICU	
14002	Trans oil filter switch closed to ground on power up.
14003	Hyd oil filter switch closed to ground on power up.
14005	PTO shaft speed data is —ERROR   or —NOT AVAILABLE   state from PTO.
14006	GOV ENGINE speed data is —ERROR   or —NOT AVAILABLE   state from GOV.
14007	Engine Over speeding
14008	ENGINE oil pressure data is —ERROR   or   NOT AVAILABLE   state from GOV.
14009	Loss of valid ENGINE Hours
14010	PTO controller off line
14011	Communications Lost with Vehicle Data Bus 1 and ALL other controllers
14013	TRANSMISSION Off Line
14014	ENGINE coolant temperature data is —ERROR   or —NOT AVAILABLE   state from GOV.
14015	Engine Intake Air Temperature data is —ERROR   or —NOT AVAILABLE   state from GOV.
14016	Engine shutdown activated
14017	Fuel Level Sensor voltage out of range low.
14018	GOV Off Line
14019	ATC Off Line

Armrest	
18001	Hand throttle #1 -voltage too low (New Holland Only)
18002	Hand throttle #1 -voltage too high (New Holland Only)
18003	Hand throttle #2 -voltage too low
18004	Hand throttle #2 -voltage too high
18005	Engine droop control -voltage too low
18006	Engine droop control -voltage too high
18007	Multi-function handle -switch error
18008	Multi-function handle -voltage too low
18009	Multi-function handle -voltage too high
18010	Powershift throttle -voltage too low (Case IH)
18011	Powershift throttle -voltage too high (Case IH)
18012	CVT mode switch error
18013	Multi-function handle -encoder position error
18014	Rear hitch position control potentiometer -voltage too low
18015	Rear hitch position control potentiometer -voltage too high
18016	Rear hitch draft control potentiometer -voltage too low
18017	Rear hitch draft control potentiometer -voltage too high
18018	Rear hitch height limit potentiometer -voltage too low
18019	Rear hitch height limit potentiometer -voltage too high
18020	Rear hitch drop rate potentiometer -voltage too low
18021	Rear hitch drop rate potentiometer -voltage too high
18022	Rear hitch sensitivity control potentiometer -voltage too low
18023	Rear hitch sensitivity control potentiometer -voltage too high
18024	EHR flow encoder position error
18025	Rear hitch slip control potentiometer -voltage too low
18026	Rear hitch slip control potentiometer -voltage too high
18027	EHR 5 lever position -voltage too low (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18028	EHR 5 lever position -voltage too high (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18029	EHR 6 lever position -voltage too low (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18030	EHR 6 lever position -voltage too high (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18031	Front hitch position / pressure control potentiometer -voltage too high
18032	Front hitch position / pressure control potentiometer -voltage too low
18033	Front hitch position / pressure mix potentiometer -voltage too high
18034	Front hitch position / pressure mix potentiometer -voltage too low

Armrest	
18035	Front hitch position height limit potentiometer -voltage too high
18036	Front hitch position height limit potentiometer -voltage too low
18037	Front hitch height limit enable switch error
18038	Front hitch position drop rate potentiometer -voltage too high
18039	Front hitch position drop rate potentiometer -voltage too low
18040	EHR 1 lever position -voltage too low
18041	EHR 1 lever position -voltage too high
18042	EHR 2 lever position -voltage too low
18043	EHR 2 lever position -voltage too high
18044	EHR 3 lever position -voltage too low
18045	EHR 3 lever position -voltage too high
18046	EHR float control switch error
18047	EHR 4 lever position -voltage too low
18048	EHR 4 lever position -voltage too high
18049	Joystick 1 X-axis position -voltage too low
18050	Joystick 1 X-axis position -voltage too high
18051	Joystick 1 Y-axis position -voltage too low
18052	Joystick 1 Y-axis position -voltage too high
18053	Joystick 1 proportional rocker switch -voltage too low
18054	Joystick 1 proportional rocker switch -voltage too high
18055	Joystick 2 X-axis position -voltage too low (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18056	Joystick 2 X-axis position -voltage too high (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18057	Joystick 2 Y-axis position -voltage too low (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18058	Joystick 2 Y-axis position -voltage too high (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18059	Joystick 2 proportional rocker switch -voltage too low (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18060	Joystick 2 proportional rocker switch -voltage too high (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18061	Reference voltage –short circuit to 0V
18062	Reference voltage –short circuit to 12V
18063	EEPROM fault
18064	MFH communication error
18065	MFH basic assurance test error
18066	EHR 1 lever implausibility error
18067	EHR 2 lever implausibility error
18068	EHR 3 lever implausibility error
18069	EHR 4 lever implausibility error

<b>Armrest</b>	
18070	EHR 5 lever implausibility error (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18071	EHR 6 lever implausibility error (not applicable to CCM/APH –it may indicate incorrect configuration of the ACM)
18072	EDC mouse raise/work switch fault (NH Only)

DCU	
19001	Battery voltage sensing (electrical) –signal high –P0563 Battery voltage evaluation above upper limit
19002	Battery voltage sensing (electrical) –'signal low –'P0562 Battery voltage evaluation below lower limit
19010	Temperature sensor after catalyst (electrical) –signal high –P042D Catalyst Temperature Sensor Circuit High
19011	Temperature sensor after catalyst (electrical) –'signal low –'P042C Catalyst Temperature Sensor Circuit Low
19019	Temperature sensor before catalyst (electrical) –signal high –P0428 Catalyst Temperature Sensor Circuit High
19020	Temperature sensor before catalyst (electrical) –'signal low –'P0427 Catalyst Temperature Sensor Circuit Low
19037	Sensor supply 2 (5V internal; for UREA pressure sensors) –Supply Voltage too high –P204D Reagent -pressure sensor -short circuit high
19038	Sensor supply 2 (5V internal; for UREA pressure sensors) –'Supply voltage too low –'P204C Reagent -pressure sensor -short circuit low
19046	UREA pressure sensor in box (electrical) –'supply voltage error –'P204A Reagent -pressure sensor -open circuit
19047	UREA pressure sensor in box (electrical) –signal high –P204D Reagent -pressure sensor -short circuit high
19048	UREA pressure sensor in box (electrical) –'signal low –'P204C Reagent -pressure sensor -short circuit low
19055	UREA Temperature sensor in box (electrical) –high signal –P2045 Reagent -temperature sensor of pump module -short circuit high
19056	UREA Temperature sensor in box (electrical) –'signal low –'P2044 Reagent -temperature sensor of pump module -short circuit low
19064	Voltage supply internal heaters 1 (UB1) electrical –'Open circuit to UB1 –'P20C5 Pump module - Internal heating -open circuit
19065	Voltage supply internal heaters 1 (UB1) electrical –'Short to bat at UB1 with Key 15 off –'P20C8 Pump module -Internal heating -short circuit high
19073	Voltage supply 2 -tube heaters (UB2) electrical –'Short to bat at UB2 with Key 15 off –'P20C4 Reagent -suction tube heating -short circuit high
19074	Voltage supply 2 -tube heaters (UB2) electrical –'Open circuit to UB2 –'P20C1 Reagent -suction tube heating -open circuit
19075	Voltage supply 2 -tube heaters (UB2) electrical –'Short circuit to Ground UB2 –'P20C3 Reagent - suction tube heating -short circuit low
19082	Voltage supply 3 -Coolant control valve and reverting valve (UB3) electrical –'Short to bat at UB3 with Key 15 off –'P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high
19083	Voltage supply 3 -Coolant control valve and reverting valve (UB3) electrical –'Open circuit to UB3 –'P20A0 Vent valve (Reductant Purge Control Valve) -open circuit
19084	Voltage supply 3 -Coolant control valve and reverting valve (UB3) electrical –'Short circuit to Ground UB3 –'P20A2 Vent valve (Reductant Purge Control Valve) -short circuit low

DCU	
19091	Monitoring VDD11 voltage -Dosing valve –supply voltage low –P0658 12 Volt supply for dosing module -below lower limit
19092	Monitoring VDD11 voltage-Dosing valve –supply voltage high –P0659 12 Volt supply for dosing module -above upper limit
19100	UREA level sensor (electrical) –supply voltage error –P203E Reductant Level Sensor -Circuit Intermittent/Erratic
19101	UREA level sensor (electrical) –signal high –P203D Reagent -tank level sensor -short circuit high
19102	UREA level sensor (electrical) –signal low –P203C Reagent -tank level sensor -short circuit low
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
19110	UREA Temperature sensor in Tank (electrical) –signal low –P205C Reagent -tank temperature sensor (temperature of the Reagent -solution in the tank) -short circuit low
19145	Dosing Valve (electrical) –short circuit to batt + –P2049 Reductant Injector -circuit high
19146	Dosing Valve (electrical) –short circuit to ground –P2048 Reductant Injector -circuit low
18147	Dosing Valve (electrical) –open load –P2047 Reductant Injector -circuit open
19148	Dosing Valve (electrical) –Dosing valve permanent "ON" (detection via fast decay) –P209B Reagent-dosing nozzle pressure too high
19154	UREA Pump speed –pump motor unplugged –P208B Reagent-pump not delivering
19155	UREA Pump speed –pump motor blocked –P208A Reagent-pump
19156	UREA Pump speed –pump overspeed –P208D Reagent-pump over speed
19157	UREA Pump speed –Hall sensors defect –P208B Reagent-pump not delivering
19163	Cooling control valve short circuit to UBat or open load –short circuit to battery –P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high
19164	Cooling control valve short circuit to UBat or open load –Open load –P20A0 Vent valve (Reductant Purge Control Valve) -open circuit
19172	Cooling control valve short circuit to ground –short circuit to ground –P20A2 Vent valve (Reductant Purge Control Valve) -short circuit low
19181	Reverting valve (4-2way valve?) electrically –Short circuit to battery –P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high
19182	Reverting valve (4-2way valve?) electrically –Short circuit to ground –P20A2 Vent valve (Reductant Purge Control Valve) -short circuit low
19183	Reverting valve (4-2way valve?) electrically –Open load –P20A0 Vent valve (Reductant Purge Control Valve) -open circuit
19262	Tank heating Valve –Short circuit to battery –P20B4 Reagent -tank heating valve -short circuit high
19263	Tank heating Valve –Short circuit to ground –P20B3 Reagent -tank heating valve -short circuit low
19264	Tank heating Valve –Open load –P20B1 Reagent -tank heating valve -open circuit
19289	Temperature after catalyst too low –Downstream catalyst temp -physical (Catalyst heating time failed) –P042B Catalyst Temperature Sensor Circuit Range/Performance
19298	UREA pressure too low at system start –UREA pressure too low at system start –P208B Reagent pump not delivering
19307	UREA pressure too high –Urea pressure not plausible (urea pressure too high) –P204B Reagent -pressure above threshold

DCU	
19316	UREA Temperature in Pump Module out of range –'Urea temperature box -physical (Urea Box Temp NOT OK: outside range) –'P2043 Reagent-temperature sensor of pump module out of range
19325	UREA Temperature in Tank out of range –'Urea temperature tank -physical (Urea Tank Temp NOT OK: outside range) –'P205B Reagent -tank temperature sensor (temperature of the Reagent -solution in the tank) out of range
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
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
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
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
19343	Coolant control valve mechanically –'mechanical defective blocked open –'P20A3 Vent valve (Reductant Purge Control Valve) -short circuit high
19344	Coolant control valve mechanically –'mechanical defective blocked closed –'P20A0 Vent valve (Reductant Purge Control Valve) -open circuit
19352	Reverting valve (4-2way valve?) mechanically –'valve does not open –'P20A0 Vent valve (Reductant Purge Control Valve) -open circuit
19361	Battery Voltage (actual value) –'High battery voltage –'P0562 Battery voltage evaluation -below lower limit
19362	Battery Voltage (actual value) –'Low battery voltage –'P0563 Battery voltage evaluation -above upper limit
19370	UREA pressure too low (in "commissioning" status) –'Pump motor error during commissioning (pump not delivering) –'P208B Reagent-pump not delivering
19379	UREA Temperature too low during commissioning –'Temperatures not plausible during commissioning.
19415	Empty UREA Tank –'urea tank empty –'P203F Reagent -fluid level in tank -too low
19532	Back flow line clogged –'P2063 Reagent -dosing valve -short circuit low
19541	Coolant control valve mechanically –'Blocked closed –'P20A1 Vent valve test plausibility test (startup)
19550	Pressure line blocked –'pressure line blocked –'P209B Reagent -dosing nozzle -pressure too high
19559	Low UREA level 1 (warning) -UREA level below Limit 1 -P203F Reagent -fluid level in tank -too low
19568	Low UREA level 2 (warning) -UREA level below Limit 2 -P203F Reagent -fluid level in tank -too low
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
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
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
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
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
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
19597	CAN receive frame EEC1 (Driver demand, eng speed, eng torque) –timeout –P0600 Serial Communication Link
19598	CAN receive frame EEC1 (Driver demand, eng speed, eng torque) –'too many CAN messages –'P0600 Serial Communication Link
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
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
19605	CAN receive frame ET1 (Oil and Water temp engine) –timeout –P0600 Serial Communication Link
19606	CAN receive frame ET1 (Oil and Water temp engine) –'too many CAN messages –'P0600 Serial Communication Link
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
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
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
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
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
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
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
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
19722	EEPROM / Checksum failures –'No corresponding variant number error –'P062F Internal Control Module EEPROM Error
19723	EEPROM / Checksum failures –'EEPROM communication error –'P062F Internal Control Module EEPROM Error
19724	EEPROM / Checksum failures –EEPROM Detection error OR 'Codierwort error –'P062F Internal Control Module EEPROM Error
19725	EEPROM / Checksum failures –'Wrong EEPROM size –'P062F Internal Control Module EEPROM Error
19730	Ignition "on" signal K15 –'digital input ignition ON not sensed during initialization –'P2530 Ignition switch -plausibility error
19739	Main Relay opens too early / too late –'main relay shut off too late –'P0687 ECM/PCM Power Relay Control Circuit High
19740	Main Relay opens too early / too late –'main relay short circuit –'P0685 ECM/PCM Power Relay Control Circuit /Open
19741	Main Relay opens too early / too late –'main relay open circuit –'P0687 ECM/PCM Power Relay Control Circuit High
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
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
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
19757	Group error path UREA injection control –Error belonging to group UREA Injection control – P208B Reagent-pump -Not delivering
19766	Group error path Air control –Error belonging to group air control –P20A7 Compressed air regulation valve
19775	Group error path catalyst temperature –Error belonging to group catalyst temperature out of range –P0426 Plausibility of catalyst temperature sensors -Plausibility error (static)
19784	Group error path NOx exceeded –Error belonging to group NOx exceeded active –P2000 NOx Trap Efficiency Below Threshold
19793	Group error path UREA Tank empty –Error belonging to group UREA tank empty active –P203F Reagent -fluid level in tank -Too low
19999	Unknown DCU15 fault code