

MX/TG Fault codes JAZ/JAW125001 and After

Fault code list for:

MX Magnum Tractor (P.I.N. JAZ125001-JAZ137299)

MX Magnum Tractor (PIN JAZ137300 and above)

TG Series Tractor (P.I.N. JAW125001 - JAW137299)

TG Series Tractor (P.I.N. JAW137300 and above)

Error Code	Error Text
ENGINE	
111	Engine Controller Failure - Hardware Failure
115	Engine Speed Sensor signal is failed (no signal at engine controller pin A17)
121	Engine Position Sensor signal is failed (no signal at engine controller pin A9)
122	Boost Pressure Sensor voltage is too high (engine controller pin A45)
123	Boost Pressure Sensor voltage is too low (engine controller pin A45)
124	Boost Pressure level has exceeded the warning limit.
131	Foot Throttle Position potentiometer voltage is too high (engine controller pin B30)
132	Foot Throttle Position potentiometer voltage is too low (engine controller pin B30)
135	Oil Pressure Sensor voltage is too high (engine controller pin A33)
141	Oil Pressure Sensor voltage is too low (engine controller pin A33)
143	Oil Pressure level has fallen below the warning limit.
144	Coolant Temperature Sensor voltage is too high (engine controller pin A23)
145	Coolant Temperature Sensor voltage is too low (engine controller pin A23)
146	Coolant Temperature level has exceeded the warning limit.
151	Coolant Temperature level has exceeded the warning limit.
153	Intake Manifold Temperature Sensor voltage is too high (engine controller pin A34)
154	Intake Manifold Temperature Sensor voltage is too low (engine controller pin A34)
155	Intake Manifold Temperature level has exceeded the warning limit.
211	Communications problem with Armrest, Instrumentation, or Transmission Controllers
234	Engine Speed has exceed the overspeed warning limit.
235	Engine Coolant Level is low. Add coolant fluid.
263	Fuel Temperature Sensor voltage is too high (engine controller pin A35)
265	Fuel Temperature Sensor voltage is too low (engine controller pin A35)
268	Fuel Pressure in pump is not changing with operating conditions.
271	Front Pumping Control Valve current is low during "click test" (pin A21)(open circuit)
272	Front Pumping Control Valve current is high (pin A21)(short circuit)
273	Rear Pumping Control Valve current is low during "click test" (pin A15)(open circuit)
274	Rear Pumping Control Valve current is high (pin A15)(short circuit)
275	Front Pumping element is failed
276	Injection Control Valve current is out of range (engine controller pin A7)(open or short)
277	Injection Control Valve is failed (engine controller pin A7)(open or short)
278	Fuel Lift Pump is failed (engine controller pin 11)
279	Injection Control Valve current is out of range (engine controller pin A7)(open or short)
281	Front Pumping element is failed
282	Rear Pumping element is failed
283	Engine Speed/Position Sensor supply voltage is too high (controller pin A8)
284	Engine Speed/Position Sensor supply voltage is too low (controller pin A8)
319	Real Time Clock in controller has lost power
328	Rear Pumping element is failed
329	CAPS Pump has an overpumping failure
352	5 Volt Sensor Supply voltage is too low (engine controller pin A10)
386	5 Volt Sensor Supply voltage is too high (engine controller pin A10)
387	Foot Throttle 5 Volt Supply voltage is too high (engine controller pin B29)
415	Oil Pressure level has fallen below the very low warning limit.

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ENGINE	
418	Water in Fuel sensor (optional) indicates the water in the fuel filter needs to be drained.
422	Engine Coolant Level Sensor (optional) is failed or the jumper plug is missing
429	Water in Fuel Sensor (optional) voltage is too low. (engine controller pin B40)
431	Foot Throttle Idle Validation Switches are both closed (engine controller pins B25, B26)
432	Foot Throttle position potentiometer and switches disagree.
433	Boost Pressure level disagrees with engine operation conditions (speed & power)
434	Unswitched 12 volt supply voltage disconnected without normal key off sequence.
441	Battery Voltage is too Low (less than 6 volts)
442	Battery Voltage is too High
443	Foot Throttle 5 Volt Supply voltage is too low (engine controller pin B29)
449	Fuel Pressure level has exceeded the warning limit.
451	Fuel Pressure Sensor voltage is too high (engine controller pin A46)
452	Fuel Pressure Sensor voltage is too low (engine controller pin A46)
456	Fuel Pressure in pump is not changing with operating conditions.
488	Intake Manifold Temperature level has exceeded the warning limit.
493	The Injection Control Identifier Circuit in the harness has failed.
539	The Injection Control Valve Transorb in the harness has failed. (open circuit)
551	Foot Throttle Idle Validation Switches are both open (engine controller pins B25, B26)
611	ECM detected engine initiated protection shutdown or keyed-off while above specific load limit

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TRANS	
11	Master Clutch Potentiometer Open Circuit or short to ground
12	Master Clutch Potentiometer Short to +12 Volts or short to 5 V _{ref}
24	None of the transmission clutches are calibrated
37	BOC switch open circuit or Neutral relay stuck open
38	Shuttled to reverse when no wheel speed signal was available
47	Clutch pedal bottom of clutch switch misadjusted
48	BOC switch or Neutral relay short circuit
50	Park Brake is powered off when in park
51	FNRP pod indicates Forward or Reverse is on, when Park is on
52	Park Brake is stuck on when commanded off
53	5 volt reference voltage too high
54	5 volt reference voltage too low
59	FNRP pod in illogical state (two positions on at same time)
60	FNRP pod in illogical state (in no position)
66	FNRP Pod Forward switch is shorted to ground or open circuit
67	FNRP Pod Forward switch is shorted to power
68	FNRP Pod Reverse switch is shorted to ground or open circuit
69	FNRP Pod Reverse switch is shorted to power
70	Battery voltage is too low for clutch solenoid operation
72	Transmission Oil Temperature is above 122 deg. C
76	Transmission Over Speed Warning
77	No signal from wheel speed sensor
78	Transmission regulated pressure accumulator is discharged
79	Engine RPM from the alternator is measured too high
80	Wheel speed sensor is measured too high
81	Transmission clutches are slipping
103	Odd clutch solenoid or its wiring failed open or shorted to ground
104	Even clutch solenoid or its wiring failed open or shorted to ground
105	C1-2 clutch solenoid or its wiring failed open or shorted to ground
106	C3-4 clutch solenoid or its wiring failed open or shorted to ground
107	C5-6 clutch solenoid or its wiring failed open or shorted to ground
108	Master clutch solenoid or its wiring failed open or shorted to ground
109	Low range clutch solenoid or its wiring failed open or shorted to ground
110	Mid range clutch solenoid or its wiring failed open or shorted to ground
111	High range clutch solenoid or its wiring failed open or shorted to ground
112	Reverse clutch solenoid or its wiring failed open or shorted to ground
113	Creeper clutch solenoid or its wiring failed open or shorted to ground
114	Even clutch solenoid coil or its wiring shorted to power
115	Odd clutch solenoid coil or its wiring shorted to power
116	C1-2 clutch solenoid coil or its wiring shorted to power
117	C3-4 clutch solenoid coil or its wiring shorted to power
118	C5-6 clutch solenoid coil or its wiring shorted to power
119	Master clutch solenoid coil or its wiring shorted to power
120	Low range clutch solenoid coil or its wiring shorted to power
121	Mid range clutch solenoid coil or its wiring shorted to power
122	High range clutch solenoid coil or its wiring shorted to power
123	Reverse clutch solenoid coil or its wiring shorted to power
124	Creeper clutch solenoid coil or its wiring shorted to power
125	Odd clutch is not calibrated
126	Even clutch is not calibrated
127	C1-2 clutch is not calibrated

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TRANS	
128	C3-4 clutch is not calibrated
129	C5-6 clutch is not calibrated
130	Low range clutch is not calibrated
131	Mid range clutch is not calibrated
132	High range clutch is not calibrated
133	Reverse clutch is not calibrated
134	Master clutch is not calibrated
135	Communication lost with the armrest controller
136	Communication lost with the instrumentation controller
137	Front Suspension raise lock solenoid circuit shorted or open circuit
138	Front Suspension raise solenoid circuit shorted or open circuit
139	Front Suspension lower lock solenoid circuit shorted or open circuit
140	Front suspension position is above the expected absolute limit
141	Front suspension position is below the expected absolute limit
142	Front suspension travel range has not been calibrated
143	Front suspension position is above the upper suspension range
144	Front suspension position is below the lower suspension range
145	Front Suspension lower lock solenoid circuit shorted or open circuit
147	Regulated system pressure below 290 PSI
148	Backup alarm circuit shorted or open

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ARM	
19	Hand THROTTLE potentiometer is failed
29	Aux 1st remote valve LEVER potentiometer is failed
39	Aux 2nd remote valve LEVER potentiometer is failed
49	Aux 3rd remote valve LEVER potentiometer is failed
59	Aux 4th remote valve LEVER potentiometer is failed
69	HITCH POSITION command potentiometer is failed
79	HITCH LOAD command potentiometer is failed
89	Aux 1st remote valve FLOW potentiometer is failed
99	Aux 2nd remote valve FLOW potentiometer is failed
109	Aux 3rd remote valve FLOW potentiometer is failed
119	Aux 4th remote valve FLOW potentiometer is failed
129	Aux 5th remote valve FLOW potentiometer is failed
139	Aux remote valve TIMER potentiometer is failed
149	Hitch UPPER LIMIT potentiometer is failed
159	Hitch DROP RATE potentiometer is failed
169	Hitch TRAVEL potentiometer is failed
1019	Trans GEAR SELECTION switch is failed
1029	Aux 5th remote valve control switch is failed
1039	PTO switch is failed
1049	Hitch UP/DOWN switch is failed
1059	Hitch SLIP switch is failed
1069	MFD switch is failed
1079	DIFF LOCK switch is failed
1089	Programmable UP/DOWN switch is failed.
1099	Aux remote valve LIMIT SET switch is failed
1109	Hand Throttle IDLE VALIDATION switch is failed
1119	RECORD/PLAY switch is failed
8011	Battery Voltage is too Low
9011	Controller Memory Error - Loss of Hitch Position Command Calibration
9012	Controller Memory Error - Loss of Aux Remote Lever Calibrations
9013	Controller Memory Error - Loss of Throttle Calibrations
9014	Controller Memory Error - Loss of MFD switch Configuration
9015	Controller Memory Error - Loss of Trans switches Configuration
9021	Hitch position command potentiometer calibration results not acceptable
9031	Hand throttle potentiometer calibration results not acceptable
10091	Armrest Controller failure - 5 V regulator failure
12013	Communications Lost with Data Bus and ALL other controllers
12081	Loss of/unavailable Performance Monitor Display - RECORD/PLAY functionality disabled
65535	NO ERROR. Errors have not been cleared from factory.

**MX/TG Fault codes
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PTO	
1010	PTO ON/OFF switch is failed in the Armrest Controller
1016	PTO ON switch wire connection from Armrest to PTO failed Open Circuit
1017	PTO ON switch wire connection from Armrest to PTO failed Short Circuit
1030	Differential Lock Switch is failed in the Armrest Controller
1040	MFD Switch is failed in the Armrest Controller
1050	MFD Switch is failed in the Armrest Controller
1060	Differential Lock Switch is failed in the Armrest Controller
1110	Differential Lock Switch is failed in the Armrest Controller
1120	MFD Switch is failed in the Armrest Controller
3020	Engine Speed Sensor is failed in the Instrumentation Controller
6013	PTO Solenoid is failed open circuit or shorted to ground.
6019	PTO Solenoid Coil is failed short circuit or shorted to +12 volts
6084	Differential Lock Solenoid is failed Open or Short Circuit
6094	MFD Solenoid is failed Open or Short Circuit
7014	Brake Lamp Relay Solenoid is failed Open or Short Circuit
9061	The PTO Shaft Speed Sensor and the PTO Shaft Size Sensor connections are swapped.
9071	The PTO is receiving no frequency from the Shaft Size Sensor on a two speed PTO configuration.
9081	The PTO is receiving signals from the Shaft Size Sensor on a single speed PTO configuration.
10031	Controller Memory Error - Loss of PTO & Brake Lamp Configurations
10033	Battery Voltage is too Low
10035	PTO Controller Failure - ADC locked up
10061	PTO Solenoid Shorted to 12V or Internal Controller Relay failed closed.
54040	Hitch Raised Signal is failed in the Hitch Controller
54050	Wheel Slip Signal is failed in the Instrumentation Controller
54060	Ground Speed Signal is failed in the Instrumentation Controller
54070	Engine Hours Signal is failed in the Instrumentation Controller
54080	Transmission Oil Temperature Sensor is failed in the Instrumentation Controller
54090	Trailed Implement Raised Signal is failed in the Performance Controller.
54120	Communications Lost with Armrest Controller
54130	Communications Lost with Instrumentation Controller
54150	Communications Lost with Hitch Controller
54170	Communications Lost with Performance Controller
54211	PTO Clutch is Slipping Too Much
54221	PTO Shaft rotation is NOT detected when PTO engagement is attempted.
54241	PTO Shaft rotation is detected when the Engine is OFF.
54251	PTO Shaft rotation is detected when the PTO clutch is OFF.
54261	Engine Stalled when the PTO was running.
54272	PTO Shaft Overspeed Detected
54282	PTO Clutch has not reached lock up speed within 6 seconds of being turned ON
65535	NO ERROR. Errors have not been cleared from factory.

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ICU	
1015	Seat Switch may be stuck closed.
3010	PTO Shaft Speed sensor is failed in PTO Controller
3020	Engine Speed sensor is failed in the Engine Controller
3022	Engine Overspeed Error
5010	Engine Oil Pressure sensor is failed in the Engine Controller
5011	Engine Oil Pressure sensor voltage is too low (open circuit, short to ground)
10031	Controller Memory Error - Loss of Engine Hours information
10032	Controller Memory Error - Loss of Vehicle Configuration information
10033	Controller Memory Error - Loss of Customer Configuration information
10034	Controller Memory Error: Loss of valid fuel table information.
10035	Controller Memory Error - Loss of Service information
10036	Controller Memory Error - Loss of Displayed Performance information
10037	Controller Memory Error - Loss of Implement Width information
10038	Controller Memory Error - Loss of Valid Remote Timer information.
11011	Fuel Level Sensor voltage is too low (open circuit, short to ground)
12011	Communications Lost with Armrest Controller
12021	Communications Lost with Auxiliary Controller
12031	Communications Lost with Hitch Controller
12043	Communications Lost with Data Bus and ALL other controllers
12051	Communications Lost with PTO Controller
12071	Communications Lost with Transmission Controller
12081	Communications Lost with Performance Controller
12091	Communications Lost with Engine Controller
12101	Communications Lost with Tractor ECU (Gateway) Controller
13010	Engine Coolant Temperature sensor is failed in the Engine Controller
13011	Engine Coolant Temperature sensor voltage is too low (short to ground)
13012	Engine Coolant Temperature sensor voltage is too high (open circuit, short to +V)
13021	Transmission Oil Temperature sensor voltage is too low (short to ground)
13022	Transmission Oil Temperature sensor voltage is too high (open circuit, short to +V)
13031	Hydraulic Oil Temperature sensor voltage is too low (short to ground)
13032	Hydraulic Oil Temperature sensor voltage is too high (open circuit, short to +V)
13040	Air to Air Intake Temperature sensor is failed in the Engine Controller
13044	When fuel shut off relay is latched, short is detected (mechanical engine tractors only)
13051	Air to Air Intake Temperature sensor voltage is too low (short to ground)
13052	Air to Air Intake Temperature sensor voltage is too high (open circuit, short to +V)
53001	Instrumentation Controller Configuration is Incorrect
53002	Air to Air Intake sensor does not match Tractor Model Configuration
53005	Engine Shutdown activated by Instrument Controller
65535	NO ERROR. Errors have not been cleared from factory.

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AUX	
1010	Aux remote valve EXTEND LIMIT SET switch is failed in the Armrest Controller
1020	Aux remote valve RETRACT LIMIT SET switch is failed in the Armrest Controller
1030	Aux 1st remote valve Timer Switch not available from Armrest due to bad Configuration
1040	Aux 2nd remote valve Timer Switch not available from Armrest due to bad Configuration
1050	Aux 3rd remote valve Timer Switch not available from Armrest due to bad Configuration
1060	Aux 4th remote valve Timer Switch not available from Armrest due to bad Configuration
1090	Aux 5th remote valve control switch (Extend) is failed in the Armrest Controller
1100	Aux 5th remote valve control switch (Retract) is failed in the Armrest Controller
8011	Battery Voltage is too Low
8012	Battery Voltage is too High
9009	Controller error -- Driver calibrated offsets either out of range or checksum faulted.
9019	Controller memory or configuration error
9029	Controller memory or configuration error
11010	Aux 1st remote valve LEVER potentiometer is failed in the Armrest Controller
11020	Aux 2nd remote valve LEVER potentiometer is failed in the Armrest Controller
11030	Aux 3rd remote valve LEVER potentiometer is failed in the Armrest Controller
11040	Aux 4th remote valve LEVER potentiometer is failed in the Armrest Controller
11060	Aux 1st remote valve FLOW potentiometer is failed in the Armrest Controller
11070	Aux 2nd remote valve FLOW potentiometer is failed in the Armrest Controller
11080	Aux 3rd remote valve FLOW potentiometer is failed in the Armrest Controller
11090	Aux 4th remote valve FLOW potentiometer is failed in the Armrest Controller
11100	Aux 5th remote valve FLOW potentiometer is failed in the Armrest Controller
11110	Aux remote valve TIMER potentiometer is failed in the Armrest Controller
12011	Communications Lost with Armrest Controller
12041	Communications Lost with Instrumentation Controller
12081	Communications Lost with Performance Monitor Unit
51011	Aux Remote Controller failure - Valve Supply Relay Open
51012	Aux Remote Controller failure - Valve Supply Relay Voltage High
51029	Valve supply Voltage high before interlock relay is closed.
51031	Aux Remote Controller failure - Valve Current Enable Protection Low
51032	Aux Remote Controller failure - Valve Current Enable Protection High
51039	Aux Remote Controller failure - Valve Current Enable Protection Failed
51041	Aux Remote Controller failure - Valve Current Limit Protection Low
51042	Aux Remote Controller failure - Valve Current Limit Protection High
51049	Aux Remote Controller failure - Valve Current Limit Protection Failed
51053	Aux 1st Lower Coil solenoid shorted to 12 volts.
51054	Aux 1st Raise Coil solenoid shorted to 12 volts.
51055	Aux 1st Lower solenoid failed open or short circuit.
51056	Aux 1st Raise solenoid failed open or short circuit.
51063	Aux 2nd Lower Coil solenoid shorted to 12 volts.
51064	Aux 2nd Raise Coil solenoid shorted to 12 volts.
51065	Aux 2nd Lower solenoid failed open or short circuit.
51066	Aux 2nd Raise solenoid failed open or short circuit.
51073	Aux 3rd Lower Coil solenoid shorted to 12 volts.
51074	Aux 3rd Raise Coil solenoid shorted to 12 volts.
51075	Aux 3rd Lower solenoid failed open or short circuit.
51076	Aux 3rd Raise solenoid failed open or short circuit.
51083	Aux 4th Lower Coil solenoid shorted to 12 volts.
51084	Aux 4th Raise Coil solenoid shorted to 12 volts.
51085	Aux 4th Lower solenoid failed open or short circuit.

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AUX	
51086	Aux 4th Raise solenoid failed open or short circuit.
51093	Aux 5th Lower Coil solenoid shorted to 12 volts.
51094	Aux 5th Raise Coil solenoid shorted to 12 volts.
51095	Aux 5th Lower solenoid failed open or short circuit.
51096	Aux 5th Raise solenoid failed open or short circuit.
51101	Invalid Software Instruction Executed
51102	Invalid Software Instruction Executed
51103	Invalid Software Instruction Executed
51104	Invalid Software Instruction Executed
51105	Invalid Software Instruction Executed
51106	Invalid Software Instruction Executed
51107	Invalid Software Instruction Executed
51108	Invalid Software Instruction Executed
51109	Invalid Software Instruction Executed
51111	Invalid Software Instruction Executed
51112	Invalid Software Instruction Executed
51113	Invalid Software Instruction Executed
51114	Invalid Software Instruction Executed
51115	Invalid Software Instruction Executed
51116	Invalid Software Instruction Executed
51117	Invalid Software Instruction Executed
51118	Invalid Software Instruction Executed
51119	Invalid Software Instruction Executed
51121	Invalid Software Instruction Executed
51122	Invalid Software Instruction Executed
51123	Invalid Software Instruction Executed
51124	Invalid Software Instruction Executed
51125	Invalid Software Instruction Executed
51126	Invalid Software Instruction Executed
51127	Invalid Software Instruction Executed
51128	Invalid Software Instruction Executed
51129	Invalid Software Instruction Executed
51131	Invalid Software Instruction Executed
51132	Invalid Software Instruction Executed
51133	Invalid Software Instruction Executed
51134	Invalid Software Instruction Executed
51135	Invalid Software Instruction Executed
51136	Invalid Software Instruction Executed
51137	Invalid Software Instruction Executed
51138	Invalid Software Instruction Executed
51139	Invalid Software Instruction Executed
51141	Invalid Software Instruction Executed
51142	Invalid Software Instruction Executed
51143	Invalid Software Instruction Executed
51144	Invalid Software Instruction Executed
51145	Invalid Software Instruction Executed
51146	Invalid Software Instruction Executed
51147	Invalid Software Instruction Executed
51148	Invalid Software Instruction Executed
51149	Invalid Software Instruction Executed

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AUX	
51200	Aux remote valve LIMIT SET switch is failed in the Armrest Controller
51250	Aux 5th remote valve control switch is failed in the Armrest Controller
51261	Sensor supply out of range low.
51262	Sensor supply out of range High.
51401	Implement feedback #1 out of range Low
51402	Implement feedback #1 out of range High
51411	Implement feedback #2 out of range Low
51412	Implement feedback #2 out of range High
65535	NO ERROR. Errors have not been cleared from factory.

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HITCH	
1010	Hitch Up/Down Switch failed in the Armrest controller
1020	Hitch Slip Select Switch failed in the Armrest controller
1030	Hitch Slip Set Switch failed in the Armrest controller
3010	Transmission Output Speed Sensor is failed in the Instrumentation Controller
3020	Slip Sensor (radar or wheel speed) is failed in the Instrumentation Controller
3030	Engine Speed Sensor is failed in the Instrumentation Controller
4019	Right Draft Pin voltage is outside the normal operating range.
4029	Left Draft Pin voltage is outside the normal operating range.
4039	Left and Right Draft Pin voltages are outside the normal operating range.
6014	Hitch Lower Solenoid is failed open or shorted to the ground
6015	Hitch Lower Solenoid is failed shorted to the 12 volts
6024	Hitch Raise Solenoid is failed open or shorted to the ground
6025	Hitch Raise Solenoid is failed shorted to the 12 volts
8001	Battery Voltage is too Low
8002	Battery Voltage is too High
9301	Raise Valve calibration value is too high. (valve problem)
9302	Raise Valve calibration value is too low. (valve problem)
9303	Raise Valve current measurement problem during calibration
9304	Hitch position at top of travel is not within specification during calibration
9306	Lower Valve calibration value is too high. (valve problem)
9307	Lower Valve calibration value is too low. (valve problem)
9308	The time allowed for hitch calibration has expired
9309	Hitch position at bottom of travel is not within specification during calibration
9310	Hitch position range from top to bottom is not within spec during calibration
9311	Hitch position to hitch rockershaft position ratio is not within spec during calibration
9312	Draft pin connected to left vs right for single pin setup during calibration
9313	Hitch setup for 'position only' operation due to Armrest configuration for position only
9314	Right Draft Pin voltage is not within spec for 'no load' condition during calibration
9315	Left Draft Pin voltage is not within spec for 'no load' condition during calibration
9316	Both Draft Pin voltages are not within spec for 'no load' condition during calibration
9317	The Hitch Controller Calibration procedure must be performed.
9318	Engine speed must be set above 1600 rpm during calibration of lower valve.
9319	Hitch calibrated for position only but Armrest calibrated for draft mode. Check calibrations.
9320	Hitch calibration aborted due to tractor movement.
9321	Hitch calibration attempted when the engine is not running or engine speed signal is failed.
10030	Controller Memory Error - Loss of hitch calibration data. Re-calibrate hitch.
10060	Internal controller relay failed or hitch valves shorted to 12 volts.
10061	Internal controller relay failed or hitch valves open circuit or shorted to ground.
10071	Controller failure - Lower valve driver is shorted to 12 volts.
10072	Controller failure - Raise valve driver is shorted to 12 volts.
10090	Controller failure - 5 volt regulator has failed.
11010	Hitch Load Command potentiometer is failed in the Armrest Controller
11020	Hitch Drop Rate potentiometer is failed in the Armrest Controller
11030	Hitch Travel potentiometer is failed in the Armrest Controller
11050	Hitch Upper Limit potentiometer is failed in the Armrest Controller
11069	Hitch Rockshaft Position potentiometer is outside normal operating range.
11070	Hitch Position Command potentiometer failed in the Armrest controller
12011	Communications Lost with Armrest Controller

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HITCH	
12031	Communications Lost with Data Bus and ALL other controllers
12041	Communications Lost with Instrumentation Controller
52230	Upper Limit control is set below the position of the hitch.
52260	Fender UP and DOWN switch failure or both switches simultaneously pressed
65535	NO ERROR. Errors have not been cleared from factory.
PERF	
10031	Controller Memory Error - Loss of Service Interval information
10032	Controller Memory Error - Loss of Store Error Code information
10033	Controller Memory Error - Loss of Area, Distance, etc. information
10034	Controller Memory Error - Loss of Implement Width information
10035	Controller Memory Error: Loss of valid fuel table information.
10036	Controller Memory Error - Loss of Remote Timer Data
12011	Communications Lost with Armrest Controller
12031	Communications Lost with Hitch Controller
12041	Communications Lost with Instrumentation Controller
12083	Communications Lost with Data Bus and ALL other controllers
12091	Communications Lost with Engine Controller
65535	NO ERROR. Errors have not been cleared from factory.