

Tracked & Wheeled Excavators				Extracted from Version 143	No of Error Codes in list 678
J1939 SA (hex)	In Use?	Reviewed/Added (Version)	Diagnostic Trouble Code	Machine Reaction	Extended Fault Test (Datalogger/Diagnostic Tools)
0000	Y	55	P0001	Torque Reduction	IMV driver fault is detected
0000	Y	55	P0002	Torque Reduction	Rail Pressure Negative Control Error During 'MV-Only' control. PID controller not able to stabilize the RPC value
0000	Y	55	P0003	Torque Reduction	Rail pressure control error (pressure error too high)
0000	Y	55	P0004	Delayed Engine Stop	Rail Pressure Positive Control Error During 'MV-Only' control. PID controller not able to stabilize the RPC value
0000	Y	55	P0005	Torque Reduction	Rail pressure control error (pressure error too low)
0000	Y	55	P0006	Torque Reduction	Rail pressure control feedback low error
0000	Y	55	P0007	Torque Reduction	IMV driver fault is detected
0000	Y	55	P0008	Torque Reduction	IMV driver fault is detected
0000	Y	124	P0010	Torque Reduction	Rail pressure control feedback high error
0000	Y	124	P0045	Torque Reduction	Cam Sensor Phase Shift
0000	Y	124	P0048	Torque Reduction	VNT Control Fault
0000	Y	114	P0070-81	Torque Reduction	Turbo EYRV Fault
0000	Y	114	P0070-87	Torque Reduction	CAN bus message error from engine ECU
0000	Y	114	P0071-87	Torque Reduction	CAN bus message error from engine ECU
0000	Y	55	P0074	Torque Reduction	CAN bus message error for environment temperature from engine ECU
0000	Y	55	P0075	Torque Reduction	TMAP (Intake Manifold 1 temp) Temperature Element sensor fault (ADC)
0000	Y	55	P0076	Torque Reduction	TMAP (Intake Manifold 1 temp) Temperature Element sensor low fault
0000	Y	55	P0077	Torque Reduction	TMAP (Intake Manifold 1 temp) Temperature Element sensor high fault
0000	Y	55	P0078	Torque Reduction	TMAP (Intake Manifold 1 temp) Temperature Element sensor noise fault
0000	Y	114	P0087	Torque Reduction	Rail Pressure Control Error Positive
0000	Y	55	P0087	Torque Reduction	Rail Pressure built low fault
0000	Y	114	P0087	Torque Reduction	Rail Pressure built normal fault
0000	Y	114	P0087	Torque Reduction, Delayed Engine Stop	RPC Variable Limit Capacity (VLC) Torque reduction clamped
0000	Y	114	P0087	Torque Reduction, Delayed Engine Stop	Pressure Limiter Open
0000	Y	114	P0087	Torque Reduction	RPC Variable Limit Capacity (VLC) Torque reduction above its threshold
0000	Y	114	P0088	Torque Reduction	Rail pressure control error during IMV control (over max calibrated system pressure)
0000	Y	114	P0088	Torque Reduction	Rail pressure control error during IMV control (over max calibrated system pressure)
0000	Y	55	P0088	Torque Reduction	Rail pressure control undefined error (over max calibrated system pressure)
0000	Y	114	P0088	Torque Reduction	Rail Pressure Control Error Negative
0000	Y	124	P0088	Torque Reduction	C-Rail pressure anomaly (r spin limit)
0000	Y	114	P0088	Torque Reduction	Rail Pressure overpressure limitout
0000	Y	124	P0089	Torque Reduction	Common Rail Pressure Rise (1st Stage)
0000	Y	114	P0089	Torque Reduction	Rail Pressure control error
0000	Y	114	P0089	Torque Reduction	Rail Pressure Negative Control Error During 'IMV-Only' control. PID controller not able to stabilize the RPC value
0000	Y	114	P0089	Torque Reduction	Rail Pressure Positive Control Error During 'IMV-Only' control. PID controller not able to stabilize the RPC value
0000	Y	55	P0089	Torque Reduction	Rail Pressure Negative Control Error During 'IC & IMV' control. PID controller not able to stabilize the RPC value
0000	Y	114	P0089	Torque Reduction	Rail Pressure Positive Control Error During 'IC & IMV' control. PID controller not able to stabilize the RPC value
0000	Y	114	P0089	Torque Reduction	Rail Pressure Negative Control Error During 'WVD-Only' control. PID controller not able to stabilize the RPC value
0000	Y	114	P0089	Delayed Engine Stop	Rail Pressure Positive Control Error During 'WVD-Only' control. PID controller not able to stabilize the RPC value
0000	Y	114	P0089	Torque Reduction	Check that IMV is not stuck during IMV regulation
0000	Y	114	P0089	Torque Reduction	IMV open loop slope fault detected
0000	Y	124	P0089	Torque Reduction	Common Rail Pressure Fault (Access Fault)
0000	Y	55	P0090	Torque Reduction	IMV driver in ECU fault detected
0000	Y	55	P0091	Torque Reduction	Check IMV regulation control trim low
0000	Y	114	P0091	Torque Reduction	Check IMV hardware current control trim low
0000	Y	114	P0091	Torque Reduction	IMV current feedback low fault detected
0000	Y	124	P0091	Torque Reduction	IMV Low Voltage Fault
0000	Y	114	P0091	Torque Reduction	IMV driver in ECU fault detected
0000	Y	55	P0092	Torque Reduction	Check IMV regulation control trim high
0000	Y	124	P0092	Torque Reduction, Delayed Engine Stop	IMV High Voltage Fault
0000	Y	114	P0092	Torque Reduction	Check IMV hardware current control trim high
0000	Y	114	P0092	Torque Reduction, Delayed Engine Stop	IMV current feedback high fault detected
0000	Y	114	P0092	Torque Reduction, Delayed Engine Stop	IMV driver in ECU fault detected
0000	Y	124	P0093	Torque Reduction	Common Rail Pressure Fail (No Fuel)
0000	Y	124	P0093	Torque Reduction	Common Rail Pressure Fail (No Fuel 2)
0000	Y	55	P0095	Torque Reduction	Intake manifold temperature (M2) signal sensor ADC fault (Intake Manifold 2 temp)
0000	Y	55	P0096	Torque Reduction	Intake manifold temperature sensor (M2) signal noise fault (Intake Manifold 2 temp)
0000	Y	55	P0096	Torque Reduction	Intake manifold temperature sensor (M2) signal plausibility fault (Intake Manifold 2 temp)
0000	Y	55	P0097	Torque Reduction	Intake manifold temperature sensor (M2) signal low fault (Intake Manifold 2 temp)
0000	Y	55	P0099	Torque Reduction	Intake manifold temperature sensor (M2) signal high fault (Intake Manifold 2 temp)
0000	Y	114	P0007-87	TAF Instrument	CAN bus message error for coolant sensor from engine ECU
0000	Y	55	P0100	Torque Reduction	AMF High Side Driver fault Short Circuit To Ground (SC2G)
0000	Y	114	P0100	Torque Reduction	AMF fault (global). Set if plus, grad or electrical B is present
0000	Y	114	P0100	Torque Reduction	AMF High Side Driver fault (Global)
0000	Y	114	P0100	Torque Reduction	AMF High Side Driver fault Open Circuit (OC) Or Short Circuit to Battery (SC2VWAT)
0000	Y	114	P0100	Torque Reduction	AMF High Side Driver fault Short Circuit (SC)
0000	Y	114	P0101	Torque Reduction	MAP electrical sensor fault (ADC)
0000	Y	124	P0101	Torque Reduction	MAP Sensor Fault
0000	Y	124	P0102	Torque Reduction	MAP Low Voltage Fault
0000	Y	55	P0102	Torque Reduction	MAP electrical sensor low fault
0000	Y	124	P0103	Torque Reduction	MAP High Voltage Fault
0000	Y	55	P0103	Torque Reduction	MAP electrical sensor high fault
0000	Y	55	P0106	Torque Reduction	Intake Manifold Absolute Pressure (MAP) sensor global fault
0000	Y	55	P0106	Torque Reduction	Intake Manifold Absolute Pressure (MAP) sensor signal drift low fault
0000	Y	55	P0106	Torque Reduction	Intake Manifold Absolute Pressure (MAP) sensor signal drift high fault
0000	Y	55	P0106	Torque Reduction	Intake Manifold Absolute Pressure (MAP) sensor signal plausibility fault
0000	Y	55	P0106	Torque Reduction	Intake Manifold Absolute Pressure (MAP) sensor signal low fault
0000	Y	55	P0106	Torque Reduction	Intake Manifold Absolute Pressure (MAP) sensor signal plausibility low fault
0000	Y	124	P0108	Torque Reduction	Boost Pressure Sensor Fault - Low Voltage Fault
0000	Y	124	P0108	Torque Reduction	Boost Pressure Sensor Fault - High Voltage Fault
0000	Y	55	P0110	Torque Reduction	Inlet Air Temperature (IAT) sensor signal ADC fault detected
0000	Y	124	P0112	Torque Reduction	Inlet Air Temperature (IAT) sensor signal low fault detected
0000	Y	124	P0113	Torque Reduction	Inlet Air Temperature (IAT) sensor signal high fault detected
0000	Y	55	P0115	Torque Reduction	Coolant sensor signal fault
0000	Y	55	P0116	Torque Reduction	Coolant sensor fault (plausibility)
0000	Y	124	P0116	Torque Reduction	Coolant temperature sensor performance invalid
0000	Y	55	P0117	Torque Reduction	Coolant sensor signal low fault
0000	Y	124	P0117	Torque Reduction	Coolant temperature sensor signal too low
0000	Y	124	P0118	Torque Reduction	Coolant sensor signal high fault
0000	Y	124	P0122	Torque Reduction	Intake Throttle Position Low Voltage Fault
0000	Y	124	P0123	Torque Reduction	Intake Throttle Position High Voltage Fault
0000	Y	114	P0129-87	Torque Reduction	Erroneous signal for Barometric Pressure
0000	Y	114	P0129-87	Torque Reduction	CAN bus message error for environment pressure from engine ECU
0000	Y	55	P0133	Torque Reduction	Wide Range Air Fuel control (WRAF) fault: Response
0000	Y	55	P0180	Torque Reduction	Fuel temperature ADC fault

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0000	Y	55	P0181	Torque Reduction	Fuel Temperature Sensor Fault
0000	Y	55	P0181	Torque Reduction	Fuel temperature sensor gradient fault
003D	Y	114	P0181-67	Torque Reduction	CAN bus message error for fuel temperature from engine ECU
0000	Y	55	P0182	Torque Reduction	Fuel temperature sensor low fault
0000	Y	55	P0183	Torque Reduction	Fuel temperature sensor high fault
0000	Y	55	P0190	Torque Reduction, Limp Home (Idle Only)	Rail Pressure Sensor signal great fault
0000	Y	55	P0191	Torque Reduction, Limp Home (Idle Only)	Rail Pressure Sensor fault, Above maximum threshold (out of range at key-on)
0000	Y	55	P0191	Torque Reduction, Limp Home (Idle Only)	Rail Pressure Sensor fault, Below minimum threshold (out of range at key-on)
0000	Y	55	P0191	Torque Reduction, Limp Home (Idle Only)	Rail Pressure Sensor fault, Exceeds threshold (out of range at key-on)
0000	Y	55	P0192	Torque Reduction, Limp Home (Idle Only)	Rail Pressure Sensor signal low fault
0000	Y	55	P0193	Torque Reduction, Limp Home (Idle Only)	Rail Pressure Sensor signal high fault
0000	Y	55	P0194	Torque Reduction, Limp Home (Idle Only)_Delayed Engine Stop	Rail Pressure Sensor signal drop fault
0000	Y	55	P0195	Torque Reduction	Oil temperature sensor signal global fault
0000	Y	114	P0195	Torque Reduction	Oil temperature sensor signal external voltage (V-Ret) fault
0000	Y	55	P0196	Torque Reduction	Oil temperature sensor signal plausibility fault
0000	Y	55	P0196	Torque Reduction	Oil temperature sensor signal gradient fault
003D	Y	114	P0196-67	Torque Reduction	CAN bus message error for oil temperature from engine ECU
0000	Y	55	P0197	Torque Reduction	Oil temperature sensor signal low fault
0000	Y	55	P0198	Torque Reduction	Oil temperature sensor signal high fault
0000	Y	55	P0201		Injector 2 Open Circuit fault (OC)
0000	Y	55	P0201		Injector in Cylinder 1 Short Circuit HSD to L&SD
0000	Y	134	P0201		Injector in Cylinder 1 Open Circuit fault (OC)
0000	Y	134	P0202		Injector 1 Open Circuit fault (OC)
0000	Y	55	P0202		Injector in Cylinder 2 Short Circuit HSD to L&SD
0000	Y	55	P0202		Injector in Cylinder 2 Open Circuit fault (OC)
0000	Y	134	P0203		Injector 3 Open Circuit fault (OC)
0000	Y	55	P0203		Injector in Cylinder 3 Short Circuit HSD to L&SD
0000	Y	55	P0203		Injector in Cylinder 3 Open Circuit fault (OC)
0000	Y	134	P0204		Injector 0 Open Circuit fault (OC)
0000	Y	55	P0204		Injector in Cylinder 4 Short Circuit HSD to L&SD
0000	Y	55	P0204		Injector in Cylinder 4 Open Circuit fault (OC)
0000	Y	134	P0205		Injector in Cylinder 5 Open Circuit fault (OC)
0000	Y	55	P0205		Injector in Cylinder 5 Short Circuit HSD to L&SD
0000	Y	134	P0206		Injector in Cylinder 6 Open Circuit fault (OC)
0000	Y	55	P0206		Injector in Cylinder 6 Short Circuit HSD to L&SD
0000	Y	134	P0217	Torque Reduction	Coolant temperature exceeds upper limit
0000	Y	134	P0219	Torque Reduction	Engine overtemp condition
0000	Y	134	P0234	Torque Reduction	Turbo Over Boost
0000	Y	55	P0235	Torque Reduction	Boosted air pressure sensor fault, ADC
0000	Y	55	P0237	Torque Reduction	Boosted air pressure sensor low fault
0000	Y	55	P0238	Torque Reduction	Boosted air pressure sensor high fault
0000	Y	55	P0252	Torque Reduction	Rail pressure control error (IMV current trim drift)
0000	Y	114	P0252	Torque Reduction	Rail pressure control error (IMV current trim drift)
0000	Y	114	P0252	Torque Reduction	Rail pressure control error (IMV current trim drift)
0000	Y	114	P0252	Torque Reduction	Rail pressure control error (IMV current trim drift)
0000	Y	55	P0253	Torque Reduction, Delayed Engine Stop	Rail pressure control by the IMV, Occurs at high fuel delivery for low (negative) current trim
0000	Y	55	P0254	Torque Reduction, Delayed Engine Stop	Rail pressure control fault by the IMV, Occurs at high fuel delivery for high (positive) current trim
0000	Y	55	P0261	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0261	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0262	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0262	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0263	Torque Reduction	Cylinder balancing fault injector 2 stuck closed
0000	Y	55	P0264	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0264	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0265	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0265	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0266	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0267	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0267	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0269	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0269	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0269	Torque Reduction	Cylinder balancing fault injector 3 stuck closed
0000	Y	55	P0270	Torque Reduction	Injector drift fault detection on injector 2, Fault which is set when the injector 2 MDP trim exceeds the maximum calibrated threshold limit, Max APC raw trim at medium rail pressure
0000	Y	55	P0271	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0271	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0272	Torque Reduction	Cylinder balancing fault injector 0 stuck closed
0000	Y	55	P0273	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0273	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0274	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0274	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0275	Torque Reduction	Cylinder balancing fault injector 1 stuck closed
0000	Y	55	P0276	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0276	Torque Reduction	Injector and wiring harness resistance too high/low (H/L)
0000	Y	55	P0277	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0277	Torque Reduction	Injector and wiring harness resistance drop (H/L)
0000	Y	55	P0278	Torque Reduction	Cylinder balancing fault injector 3 stuck closed
0000	Y	124	P0299	Torque Reduction	Turbo Low Boost
0000	Y	55	P029A		Injector drift fault detection on injector 3, Fault which is set when the injector 3 MDP trim exceeds the maximum calibrated threshold limit, Maximum APC raw trim at high rail pressure
0000	Y	55	P029A		Injector drift fault detection on injector 2, Fault which is set when the injector 2 MDP trim exceeds the maximum calibrated threshold limit, Max APC raw trim at low rail pressure
0000	Y	55	P029A		Injector drift fault detection on injector 2, Fault which is set when the injector 2 MDP trim exceeds the maximum calibrated threshold limit, Max APC raw trim at medium rail pressure
0000	Y	55	P029B		Fault which is set when the injector 3 absolute MDP value is below a calibrated threshold
0000	Y	55	P029B		Injector drift fault detection on injector 2, Fault which is set when the injector 2 MDP trim exceeds the maximum calibrated threshold limit, Min APC raw trim at high rail pressure
0000	Y	55	P029B		Injector drift fault detection on injector 2, Fault which is set when the injector 2 MDP trim exceeds the maximum calibrated threshold limit, Min APC raw trim at low rail pressure
0000	Y	55	P029B		Injector drift fault detection on injector 2, Fault which is set when the injector 2 MDP trim exceeds the maximum calibrated threshold limit, Min APC raw trim at medium rail pressure

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0x00	Y	55	P020E		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Maximum APC raw trim at high rail pressure
0x00	Y	55	P020E		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
0x00	Y	55	P020E		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at medium rail pressure
0x00	Y	55	P020F		Fault which is set when the injector 2 absolute MDP value is below a calibrated threshold
0x00	Y	55	P020F		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at high rail pressure
0x00	Y	55	P020F		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at low rail pressure
0x00	Y	55	P020F		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at medium rail pressure
0x00	Y	55	P02A2		Injector drift fault detection on injector 2. Fault which is set when the injector 2 MCP trim exceeds the maximum calibrated threshold limit. Maximum APC raw trim at high rail pressure
0x00	Y	55	P02A2		Injector drift fault detection on injector 2. Fault which is set when the injector 2 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
0x00	Y	55	P02A2		Injector drift fault detection on injector 2. Fault which is set when the injector 2 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at medium rail pressure
0x00	Y	55	P02A3		Fault which is set when the injector 4 absolute MDP value is below a calibrated threshold
0x00	Y	55	P02A3		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at high rail pressure
0x00	Y	55	P02A3		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at low rail pressure
0x00	Y	55	P02A3		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at medium rail pressure
0x00	Y	55	P02A6		Injector drift fault detection on injector 0. Fault which is set when the injector 0 MCP trim exceeds the maximum calibrated threshold limit. Maximum APC raw trim at high rail pressure
0x00	Y	55	P02A6		Injector drift fault detection on injector 0. Fault which is set when the injector 0 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
0x00	Y	55	P02A6		Injector drift fault detection on injector 0. Fault which is set when the injector 0 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at medium rail pressure
0x00	Y	55	P02A7		Fault which is set when the injector 1 absolute MDP value is below a calibrated threshold
0x00	Y	55	P02A7		Injector drift fault detection on injector 0. Fault which is set when the injector 0 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at high rail pressure
0x00	Y	55	P02A7		Injector drift fault detection on injector 0. Fault which is set when the injector 0 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at low rail pressure
0x00	Y	55	P02A7		Injector drift fault detection on injector 0. Fault which is set when the injector 0 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at medium rail pressure
0x00	Y	88	P02AA		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Maximum APC raw trim at high rail pressure
0x00	Y	88	P02AA		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
0x00	Y	88	P02AA		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at medium rail pressure
0x00	Y	88	P02AB		Fault which is set when the injector 1 absolute MDP value is below a calibrated threshold
0x00	Y	88	P02AB		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at high rail pressure
0x00	Y	88	P02AB		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at low rail pressure
0x00	Y	88	P02AB		Injector drift fault detection on injector 1. Fault which is set when the injector 1 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at medium rail pressure
0x00	Y	88	P02AE		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Maximum APC raw trim at high rail pressure
0x00	Y	88	P02AE		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at low rail pressure
0x00	Y	88	P02AE		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Max APC raw trim at medium rail pressure
0x00	Y	88	P02AF		Fault which is set when the injector 3 absolute MDP value is below a calibrated threshold
0x00	Y	88	P02AF		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at high rail pressure
0x00	Y	88	P02AF		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at low rail pressure
0x00	Y	88	P02AF		Injector drift fault detection on injector 3. Fault which is set when the injector 3 MCP trim exceeds the maximum calibrated threshold limit. Min APC raw trim at medium rail pressure
0x00	Y	114	P0321-8F		CAN bus message error for engine speed from engine ECU
0x00	Y	55	P0325		Accelerator fault (signal/noise ratio too low in idle)
0x00	Y	88	P0335		Crank Sensor 1 Circuit
0x00	Y	124	P0335		Crank Sensor Fault - (No Signal)
0x00	Y	55	P0335		Crankshaft Position Sensor "A" Circuit
0x00	Y	114	P0335		Crank signal overvoltage fault
0x00	Y	124	P0336	Torque Reduction	Crank Sensor Fault - (Signal Fault)
0x00	Y	55	P0340	Torque Reduction	Cam signal last learnt value is outside of limits

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0x00	Y	55	P0340	Torque Reduction	G Sensor Fault (No Signal)
0x00	Y	55	P0341	Torque Reduction	Cam signal (B) higher than threshold
0x00	Y	124	P0341	Torque Reduction	G Sensor Fault (Abnormal Signal)
0x00	Y	55	P0341	Torque Reduction	Camshaft Position Sensor A Circuit Range / Performance
0x00	Y	55	P0341	Torque Reduction	Cam signal lost (no Cam signal seen in 2 Crank rotations)
0x00	Y	55	P0341	Torque Reduction	Cam signal fault (missing event within the expected window)
0x00	Y	55	P0341	Torque Reduction	Cam signal fault (overspeed detected)
0x3D	X	114	P0350-02		Error monitoring for system protection based on ignition switch input
0x00	Y	55	P0371	Torque Reduction	Crank signal is too close to the previous one
0x00	Y	55	P0372	Torque Reduction	Elapsed time between CPS events is too high
0x00	Y	55	P0374	Torque Reduction	Crank signal lost (no CPS signal seen in 1 Cam rotation)
0x00	Y	124	P0380		Glow Plug/Heater Circuit "A"
0x00	Y	55	P0380		Glow Plug/Heater Circuit "A"
0x00	Y	124	P0381		Glow Plug Fault
0x00	Y	55	P0383		Glow Plug Control Module Control Circuit Low
0x00	Y	55	P0384		Glow Plug Control Module Control Circuit High
0x00	Y	55	P0400		ECR Flow reached its limit
0x00	Y	124	P0401	Torque Reduction / T4F Inducement	ECR Gas Flow Fault
0x00	Y	124	P0404		ECR Valve Control Fault
0x00	Y	124	P0404		ECR Open Defective
0x00	Y	94	P0404		Exhaust Gas Recirculation "A" Control Circuit Range/Performance
0x00	Y	55	P0405		Exhaust Gas Recirculation Sensor "A" Circuit Low
0x00	Y	55	P0408		Exhaust Gas Recirculation Sensor "A" Circuit High
0x00	Y	124	P0409		ECR Position Sensor Fault - (Backflow Specification)
0x00	Y	124	P0410		Manifold Temperature Sensor Fault - (High Voltage Fault)
0x00	Y	124	P0410		Manifold Temperature Sensor Fault - (Low Voltage Fault)
0x00	Y	124	P0426		DPF Exhaust Temperature 1 High
0x00	Y	124	P0426		DPF Exhaust Temperature 1 Low
0x00	Y	124	P0427		Exhaust Temperature Sensor 1 High Voltage Fault
0x00	Y	124	P0428		Exhaust Temperature Sensor 1 High Voltage Fault
0x00	Y	124	P0429		DPF Exhaust Temperature 2 High
0x00	Y	124	P0429		DPF Exhaust Temperature 2 Low
0x00	Y	124	P042C		Exhaust Temperature Sensor 2 Low Voltage Fault
0x00	Y	124	P042D		Exhaust Temperature Sensor 2 High Voltage Fault
0x00	Y	55	P0460		Exhaust Gas Recirculation Sensor "A" Circuit Intermittent/Erratic
0x00	Y	55	P0472	Torque Reduction	Exhaust manifold pressure (P2) signal ADC fault
0x00	Y	55	P0472	Torque Reduction	Exhaust manifold pressure (P2) signal low fault
0x00	Y	55	P0472	Torque Reduction	Exhaust manifold pressure (P2) signal drifted low
0x00	Y	55	P0473	Torque Reduction	Exhaust manifold pressure (P2) signal high fault
0x00	Y	55	P0473	Torque Reduction	Exhaust manifold pressure (P2) signal drifted high
0x00	Y	124	P0512		Source Switch Fault
0x00	Y	55	P0520		Low of pressure Lamp/Gauge drive open circuit (OC)
0x00	Y	55	P0520		Low of pressure Lamp/Gauge drive short circuit to ground (SC2GRND)
0x00	Y	55	P0520		Low of pressure Lamp/Gauge drive short circuit to battery voltage (SC2VBATT)
0x00	Y	55	P0521		Oil pressure sensor signal glouce fault
0x00	Y	124	P0522	None	Engine Oil Pressure Sensor Fault (Low Voltage Fault)
0x00	Y	88	P0522	Torque Reduction	Oil Pressure Signal Out of Range High
0x00	Y	55	P0522		High Oil Pressure During Engine Running
0x00	Y	55	P0523		Low Oil Pressure During Engine Running
0x07	Y	91	P0523		Engine Oil Pressure Sensor Fault (High Voltage Fault)
0x00	Y	88	P0523	Torque Reduction	Oil Pressure Signal Out of Range Low
0x00	Y	88	P0523		Low Oil Pressure During Engine Running
0x00	Y	55	P0544	Torque Reduction	Turbo in temperature fault
0x00	Y	55	P0545	Torque Reduction	Turbo in temperature count low fault
0x00	Y	55	P0546	Torque Reduction	Turbo in temperature count high fault
0x00	Y	124	P0560		12V Power Supply Voltage Fault
0x00	Y	55	P0562	Torque Reduction	Battery voltage monitoring signal low fault
0x00	Y	124	P0562	Torque Reduction	System Power Supply Low Voltage Fault
0x3D	Y	114	P0562-16		Low battery voltage
0x3D	Y	114	P0562-02		Fault due to low or high battery voltage supply to DCU
0x00	Y	55	P0563	Torque Reduction	Battery voltage monitoring signal high fault
0x00	Y	124	P0563	Torque Reduction	System Power Supply High Voltage Fault
0x3D	Y	114	P0563-17		High battery voltage
0x00	Y	124	P0601	Torque Reduction	ROM Fault
0x00	Y	124	P0602	Limp Home (Idle Only)	OR Code Error
0x00	Y	114	P0602	Limp Home (Idle Only)	CP1 data not programmed
0x00	Y	55	P0602	Limp Home (Idle Only)	CP2 data not programmed
0x00	Y	114	P0602	Limp Home (Idle Only)	CP3 data not programmed
0x00	Y	114	P0602	Limp Home (Idle Only)	CP4 data not programmed
0x00	Y	114	P0602	Limp Home (Idle Only)	RAM corruption affecting injector ECU data
0x00	Y	114	P0602	Limp Home (Idle Only)	Functional Safety Fault
0x00	Y	55	P0603	Limp Home (Idle Only)	Functional Safety Fault
0x00	Y	55	P0603	Engine Stop	ECU memory integrity fault (data / cal integrity)
0x00	Y	55	P0604	Engine Stop	ECU memory integrity fault (RAM integrity)
0x00	Y	124	P0604	Engine Stop	RAM Fault
0x00	Y	55	P0605	Engine Stop	ECU memory integrity fault (volatile integrity)
0x00	Y	55	P0606	Engine Stop	Functional Safety Fault
0x00	Y	55	P0606	Engine Stop	Functional Safety Fault
0x00	Y	55	P0606	Engine Stop	Functional Safety Fault
0x00	Y	55	P0606	Engine Stop	Functional Safety Fault
0x00	Y	55	P0606	Engine Stop	Functional Safety Fault
0x00	Y	124	P0606	Engine Stop	CPU Fault
0x00	Y	124	P0606	Engine Stop	CPU Monitoring IC Fault
0x00	Y	55	P0608	Engine Stop	Functional Safety Fault
0x3D	Y	114	P0608-02		Peripheral monitoring error on DCU
0x00	Y	55	P0607	Engine Stop	Functional Safety Fault
0x00	Y	55	P0607	Torque Reduction	Throttle H-Bridge driver in ECU fault: Over temperature
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x00	Y	55	P060A	Engine Stop	Functional Safety Fault
0x3D	Y	114	P060A-03		Monitoring error on DCU
0x00	Y	124	P060B		A/D Conversion Fault
0x00	Y	55	P060B	Limp Home (Idle Only), Engine Stop	ADC circuit fault (Global)
0x00	Y	55	P060B	Torque Reduction	HPV current feedback ADC fault detected
0x00	Y	55	P060B	Torque Reduction	Internal Control Module A/D Processing Performance
0x00	Y	55	P060B	Torque Reduction	Functional Safety Fault

Tracked & Wheeled Excavators				Extracted from Version 143	No of Error Codes in list 678
J1939 SA (hex)	In Use?	Reviewed/ Added @Version	Diagnostic Trouble Code	Machine Reaction	Extended Fault Test (Datalogger/Diagnostic Tools)
0x00	Y	55	P0608	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0609	Torque Reduction	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x00	Y	55	P060C	Engine Stop	Functional Safety Fault
0x3D	Y	114	P060C-00	Engine Stop	DCU software reset performed
0x3D	Y	114	P060C-41	Tail Inducement	DCU software reset performed
0x3D	Y	114	P060C-94	Engine Stop	DCU software reset performed
0x3D	Y	114	P060C-88	Engine Stop	DCU software reset performed
0x00	Y	55	P060D	Engine Stop	Functional Safety Fault
0x00	Y	55	P060D	Engine Stop	Functional Safety Fault
0x00	Y	55	P060D	Torque Reduction	Functional Safety Fault
0x00	Y	55	P060D	Torque Reduction	Functional Safety Fault
0x00	Y	55	P060E	Torque Reduction	Functional Safety Fault
0x00	Y	55	P060E	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0612	Engine Stop	Fuel Injector Control Module Relay Control
0x00	Y	55	P0612	Engine Stop	Fuel Injector Control Module Relay Control
0x00	Y	55	P0612	Engine Stop	Fuel Injector Control Module Relay Control
0x00	Y	55	P0612	Engine Stop	Fuel Injector Control Module Relay Control
0x00	Y	55	P0615	Engine Stop	Starter Relay Circuit
0x00	Y	55	P061A	Engine Stop	Functional Safety Fault
0x00	Y	55	P061B	Engine Stop	Functional Safety Fault
0x00	Y	55	P061C	Engine Stop	Functional Safety Fault
0x00	Y	55	P061E	Engine Stop	Functional Safety Fault
0x00	Y	55	P061E	Engine Stop	Functional Safety Fault
0x00	Y	55	P0627	Torque Reduction	Lift pump global fault
0x00	Y	55	P0628	Torque Reduction	Lift pump global fault
0x00	Y	55	P0629	Torque Reduction	Lift pump global fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P0629	Torque Reduction	Functional Safety Fault
0x00	Y	55	P062D	Delayed Engine Stop	Injector Bank 0 fault shorted to ground (SC2VBA7)
0x00	Y	55	P062D	Delayed Engine Stop	Injector Bank 0 fault shorted to ground (SC2VND)
0x00	Y	55	P062E	Delayed Engine Stop	Injector Bank 1 fault shorted to ground (SC2VBA7)
0x00	Y	55	P062E	Delayed Engine Stop	Injector Bank 1 fault shorted to ground (SC2VND)
0x00	Y	55	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (IGI, MDP)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (RP, PL, STE)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (WDOG)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (CAN, KW)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (SMC)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (ICV, Inj CH)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (FM)
0x00	Y	114	P062F	Torque Reduction_Limp Home (Idle Only)	ECU non volatile memory fault (APF)
0x00	Y	55	P0650	Engine Stop	VN Not Programmed or Incompatible - ECM/PCM
0x00	Y	124	P065B	Engine Stop	Intake Throttle Fault
0x00	Y	55	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	ECU Internal SV Supply 1 fault
0x00	Y	124	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	SV Power Supply-1, Supply-6 Voltage Fault
0x00	Y	55	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	ECU Internal SV Supply 1 fault
0x00	Y	124	P0660	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	Check Engine Lamp Fault
0x00	Y	55	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	ECU Internal SV Supply 2 fault
0x00	Y	124	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	SV Power Supply-2 Voltage Fault
0x00	Y	124	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	SV Power Supply-5 Voltage Fault
0x00	Y	55	P0661	Torque Reduction_Limp Home (Idle Only), Delayed Engine Stop	ECU Internal SV Supply 2 fault
0x3D	Y	114	P0666-14	Engine Stop	Short circuit to ground of actuator relay 1
0x3D	Y	114	P0666-12	Engine Stop	Short circuit to battery of actuator relay 1
0x00	Y	55	P0668	Torque Reduction	ECU internal temperature sensor low fault
0x00	Y	55	P0669	Torque Reduction	ECU internal temperature sensor high fault
0x00	Y	55	P0686	Engine Stop	Main ECU relay stuck
0x00	Y	55	P0686	Engine Stop	Main relay unoperated low state
0x00	Y	124	P0686	Engine Stop	Main Relay System Fault (Open)
0x00	Y	124	P0687	Engine Stop	Main Relay System Fault (Close)
0x00	Y	55	P0687	Engine Stop	Sensor Reference Voltage "C" Circuit/Open
0x00	Y	124	P0697	Engine Stop	SV Power Supply-3 Voltage Fault
0x00	Y	55	P0697	Engine Stop	ECU Internal SV Supply 2 auxiliary fault
0x00	Y	55	P0697	Engine Stop	ECU Internal SV Supply 2 auxiliary fault
0x3D	Y	114	P06A7-00	Tail Inducement	Sensor supply monitoring error through DCU
0x17	Y	55	P0688	None	Data logger memory full
0x00	Y	124	P1062	Engine Stop	PCV 1 Feedback Fault
0x00	Y	124	P1063	Engine Stop	PCV 2 Feedback Fault
0x00	Y	124	P1093	Engine Stop	Common Rail Pressure Fault (lack of Fuel)
0x00	Y	124	P1093	Engine Stop	Common Rail Pressure Fault (Excess of Fuel 1)
0x00	Y	55	P1101	Engine Stop	Rail Pressure Control Error Positive fault
0x00	Y	55	P1102	Engine Stop	Rail Pressure Control Error Negative fault
0x00	Y	55	P1102	Engine Stop	Rail Pressure Fault detected - not able to maintain pressure after a stop and start request
0x00	Y	55	P1104	Torque Reduction	Fault which is set when no MDP updates occur on injector 3 due to environmental conditions (as defined by the update strategy)
0x00	Y	55	P1105	Torque Reduction	Fault which is set when no MDP updates occur on injector 3 due to a fault within the update strategy

Tracked & Wheeled Excavators				Extracted from Version 143	No. of Error Codes in list 678
J1939 SA (hex)	In Use?	Reviewed/Added (S/Version)	Diagnostic Trouble Code	Machine Reaction	Extended Fault Test (DataLogger/Diagnostic Tools)
0000	Y	55	P1106	Torque Reduction	Fault which is set when no MDP updates occur on Injector 2 due to environmental conditions (as defined by the update strategy)
0000	Y	55	P1107	Torque Reduction	Fault which is set when no MDP updates occur on Injector 2 due to a fault within the update strategy
0000	Y	55	P1108	Torque Reduction	Fault which is set when no MDP updates occur on Injector 4 due to environmental conditions (as defined by the update strategy)
0000	Y	55	P1109	Torque Reduction	Fault which is set when no MDP updates occur on Injector 4 due to a fault within the update strategy
0000	Y	55	P110A	Torque Reduction	Fault which is set when no MDP updates occur on Injector 1 due to environmental conditions (as defined by the update strategy)
0000	Y	55	P110B	Torque Reduction	Fault which is set when no MDP updates occur on Injector 1 due to a fault within the update strategy
0012	Y	81	P110C	Throttle Response may be slow	Throttle Actuator Temperature Warning
0012	Y	81	P110D	Engine will only idle	Throttle Actuator Hardware Fault
0012	Y	81	P110E	Engine may stall at starting speed or idle	Throttle Actuator Obstruction Fault
0012	Y	81	P110F	Engine will only idle	Throttle Actuator Calibration Fault
0000	Y	124	P1112		Boost Temperature Sensor Fault (Low Voltage Fault)
0000	Y	124	P1113		Boost Temperature Sensor Fault (High Voltage Fault)
0000	Y	124	P1261		Charge Circuit Fault - (Bank 1)
0000	Y	124	P1262		Charge Circuit Fault - (Bank 2)
0000	Y	124	P1203		Fuel Filter Clogging Sensor Fault (Low Voltage Fault)
0000	Y	124	P1204		Fuel Filter Clogging Sensor Fault (High Voltage Fault)
0030	Y	114	P1400-00		Erroneous signal from override switch
0030	Y	114	P1401-00		CAN bus message error from override switch
0030	Y	114	P1402-00		CAN bus off error from override switch
0000	Y	124	P1403		EGR Close Defective
0000	Y	124	P1404		EGR Zero Position Fault
0000	Y	124	P140A		EGR 2 Valve Control Fault
0000	Y	124	P140B		EGR 2 Position Sensor Fault
0000	Y	124	P140C		EGR 2 Zero Position Fault
0000	Y	124	P1455		DPF PM Over 2
0000	Y	124	P1471		DPF Regeneration Defective
0000	Y	124	P1500	Torque Reduction_Limp Home (Idle Only)	Boiler Detonation Warning
0000	Y	55	P1509		CAN communication Error on TSC
0000	Y	55	P150C		Functional Safety Fault
0000	Y	55	P150A		Functional Safety Fault
0000	Y	55	P150B		Functional Safety Fault
0000	Y	55	P150E		Functional Safety Fault
0000	Y	124	P1621		EEPROM Fault, NDEEPROM Fault
0000	Y	124	P1655		SV Power Supply-Voltage Fault
0000	Y	124	P1669		DPF Lamp Fault
0030	Y	114	P2000-00	TdF Inducement	Actual average conversion efficiency is below the threshold
0030	Y	114	P2000-02	TdF Inducement	Actual average conversion efficiency is below the threshold
0030	Y	114	P2000-04	TdF Inducement	Actual average conversion efficiency is below the threshold
0030	Y	114	P2000-06	TdF Inducement	Actual average conversion efficiency is below the threshold
0030	Y	114	P202A-13		Open lead error of DEF tank heater actuator powerstage
0030	Y	114	P202B-14		Error for short to ground of DEF tank heater actuator powerstage
0030	Y	114	P202C-15		Error for short to battery of DEF tank heater actuator powerstage
0030	Y	114	P202E-09	TdF Inducement	Error on dosing valve short circuit
0030	Y	114	P202E-02	TdF Inducement	Error on dosing valve plausibility
0030	Y	114	P202E-16	TdF Inducement	Error on dosing valve plausibility at low voltage
0030	Y	114	P202E-4B	TdF Inducement	Error on dosing valve driver oversaturation
0030	Y	114	P202E-12	TdF Inducement	Error on dosing valve short circuit to battery
0030	Y	114	P202E-13	TdF Inducement	Error on dosing valve short circuit to battery on high side or open lead
0030	Y	114	P202E-14	TdF Inducement	Error on dosing valve short to ground or open circuit
0000	Y	124	P2032		EGR-Gas Temperature Sensor Low Voltage Fault
0000	Y	124	P2033		EGR Gas Temperature Sensor High Voltage Fault
0030	Y	114	P203B-81	TdF Inducement	CAN bus message error from headunit
0030	Y	114	P203B-87	TdF Inducement	CAN bus off error from headunit
0030	Y	114	P203B-89		CAN bus message error for tank level from head unit
0030	Y	114	P203B-18		Error on tank level plausibility
0030	Y	114	P203B-00		Tank level signal error
0030	Y	114	P203B-15		DEF tank level signal is above maximum voltage limit
0030	Y	114	P203B-14		DEF tank level signal is below minimum voltage limit
0030	Y	114	P203B-22	TdF Inducement	Tank head unit level physical signal above maximum limit
0030	Y	114	P203B-79		DEF tank level low and empty
0030	Y	114	P203F-6B		DEF tank level low and before starting threshold
0030	Y	114	P203F-21	TdF Inducement	DEF tank head unit level physical signal below minimum limit
0030	Y	114	P2043-91		CAN bus message error from head unit
0030	Y	114	P2043-87		CAN bus off error from head unit
0030	Y	114	P2043-66		DEF temperature message error from head unit
0030	Y	114	P204B-29	TdF Inducement	Error on pressure low & dosing valve alarm monitoring for leakage
0030	Y	114	P204B-02	TdF Inducement	Error while monitoring the substitution of pressure
0030	Y	114	P204B-00	TdF Inducement	Error while monitoring of pressure buildup
0030	Y	114	P204B-61	TdF Inducement	Error on rate of pressure reduction
0030	Y	114	P204B-26		Measured value of pressure sensor above the tolerable limit
0030	Y	114	P204B-17		Measured value of pressure sensor below the tolerable limit
0030	Y	114	P204B-16		Pump pressure signal below the minimum voltage limit
0030	Y	114	P204C-76	TdF Inducement	Pump pressure signal below the minimum voltage limit
0030	Y	114	P204C-21		Error for pump pressure physical signal below lower limit
0030	Y	114	P204D-17	TdF Inducement	Pump pressure signal above the maximum voltage limit
0030	Y	114	P204F-06		Error to detect the clogged filter
0030	Y	114	P204F-7A	TdF Inducement	Error to detect leakage during no dose
0000	Y	88	P204F		Inducement Request Offense Active
0030	Y	114	P205B-00	TdF Inducement	Error to indicate overheating of DEF tank
0030	Y	114	P205B-06	TdF Inducement	Error in increase of DEF tank temperature
0030	Y	114	P205B-17	TdF Inducement	DEF tank head unit temperature physical signal above maximum limit
0030	Y	114	P205B-16	TdF Inducement	DEF tank head unit temperature physical signal below minimum limit
0030	Y	114	P205B-24	TdF Inducement	Error on tank temperature sensor plausibility exceeds maximum threshold
0030	Y	114	P205B-3	TdF Inducement	Error on tank temperature sensor plausibility below minimum threshold
0030	Y	114	P205C-16		DEF tank temperature signal voltage below minimum limit
0030	Y	114	P205D-17		DEF tank temperature signal voltage above maximum limit
0030	Y	114	P205E-87		CAN bus message error for DEF tank temperature from head unit
0030	Y	114	P205E-81	TdF Inducement	DEF tank temperature signal error on CAN
0030	Y	114	P207F-87	TdF Inducement	DEF quality message error from head unit
0030	Y	114	P207F-86		DEF concentration message error from head unit
0030	Y	114	P207F-00		DEF quality error during refill condition
0000	Y	55	P2080	Torque Reduction	Turbo In temperature count noise fault
0030	Y	114	P208A-31		Supply module pump feedback error
0030	Y	114	P208A-13	TdF Inducement	Open lead error of supply module pump motor
0030	Y	114	P208B-61		Error on supply module pump speed deviation
0030	Y	114	P208B-02	TdF Inducement	Error on supply module pump speed permanent deviation
0030	Y	114	P208B-4B	TdF Inducement	Over temperature error of supply module pump motor
0030	Y	114	P208B-22	TdF Inducement	Supply module internal duty cycle in invalid range