Fault Codes

The LED readout screen displays fault codes that provide information about the machine operating status and about malfunctions. The fault codes listed in the following charts describe malfunctions and can aid in troubleshooting the machine by pinpointing the area or component affected.


Art_5533

Display	Description	Lift Reaction
01	System Initialization Fault	Disables All Motion
02	System Communication Fault	Disables All Motion
03	Invalid Option Setting Fault Model Not Selected	Disables All Motion
04	Calibration Fault	Warning Only
06	Collision Trigger	Disable Lifting and Driving
08	Key Switch Error	Disables All Motion
09	GPS Communication Fault	Warning Only
10	MC Lost	Disables All Motion
11	BMS Communication Fault	Disable Lifting and Driving
12	Chassis Up or Down Switch ON	Disable Chassis Control
13	Foot Pendal Fault	Disables All Motion
14	Brake Release	Disable All Motion
18	Pothole Guard Fault or Down Limit Switch Fault	Disable Lifting and Driving
19	Outdoor Limit Fault	Disable lifting and driving
31	Pressure Sensor Fault	Disables All Motion
32	Angle Sensor Fault	Disable Lifting and Driving
33	Lift Is Locked	Disable Lifting and Drive Speed Limit
35	Pressure Sensor 2 Fault	Disables All Motion
36	Low Battery Limp	Drive Speed Limit
37	Battery Sleep	Disables All Motion
42	Platform Left Button ON	Warning Only
43	Platform Right Button ON	Warning Only
46	Platform Enable Button ON	Disable Platform Control
47	Joystick Not In Neutral	Disables All Motion
48	Horn Coil Fault	Warning Only
49	Meter Coil Fault	Warning Only
50	Beacon Coil Fault	Warning Only
51	Spare Coil Fault	Warning Only
52	Drive Forward Coil Fault	Disable Lifting and Driving
53	Drive Reverse Coil Fault	Disable Lifting and Driving
54	Lift Up Coil Fault	Disable Lifting and Driving
55	Lift Down Coil Fault	Disable Lifting and Driving
56	Steer Right Coil Fault	Disable Lifting and Driving
57	Steer Left Coil Fault	Disable Lifting and Driving
58	General Brake Coil Fault	Disable Lifting and Driving
59	Parallel Coil Fault	Disable Lifting and Driving
68	Battery Low Voltage	Disables All Motion
70	Platform Expended	Disable Lowering

Display	Description	Lift Reaction
72	Vehicle Contact Edge	Disables All Motion
80	Platform Load is Over 80%	Warning Only
90	Platform Load is Over 90%	Warning Only
99	Platform Load is Over 99%	Warning Only
100	Machine Inclined	Motion Disable Lifting and Driving
101	Platform Overloaded	Disable All Motion
102	Restore Parameters to Default	Warning Only
103	Battery is Draining	Warning Only
104	Motor Controller Fault	Warning Only
105	BMS Alarm	Drive Speed Limit
106	BMS Fault	Disable All Motion
107	GPS Actively Lock	Disable Lifting and Driving
108	GPS Passive Lock	Disable Lifting and Driving
109	GPS Temporary Unlock	Warning Only

List of Fault Codes (Motor Controller)		
Display	**Description**	**Lift Reaction**
1037, 2037, 3037	CONTACTOR CLOSED	Controller Dependent
1038, 2038, 3038	CONTACTOR OPEN	Controller Dependent
1060, 2060, 3060	CAPACITOR CHARGE	Controller Dependent
1062, 2062, 3062	TH. PROTECTION	Controller Dependent
1065, 2065, 3065	MOTOR TEMPERAT.	Controller Dependent
1070, 2070, 3070	Vkey Fault	Controller Dependent
1071, 2071, 3071	5V Power Fault	Controller Dependent
1072, 2072, 3072	Hardware Overload	Controller Dependent
1073, 2073, 3073	Current CL Fault	Controller Dependent
1074, 2074, 3074	Opposite Comm. Fault	Controller Dependent
1075, 2075, 3075	Opposite Fault	Controller Dependent
1076, 2076, 3076	MOSFET Fault	Controller Dependent
1153, 2153, 3153	ENCODER ERROR XX	Controller Dependent
1175, 2175, 3175	SPEED FB. ERROR	Controller Dependent
1177, 2177, 3177	COIL SHOR. EB.	Controller Dependent
1178, 2178, 3178	MOTOR TEMP. STOP	Controller Dependent
1180, 2180, 3180	OVERLOAD	Controller Dependent
1196, 2196, 3196	Motor Phase Short	
1200, 2200, 3200	VDC OFF SHORTED	Controller Dependent
1202, 2202, 3202	VDC LINK OVERV.	Controller Dependent
1207, 2207, 3207	Motor Phase Open	Controller Dependent
1211, 2211, 3211	STALL ROTOR	Controller Dependent
1212, 2212, 3212	Parameter Error	Controller Dependent
1216, 2216, 3216	EB. COIL OPEN	Controller Dependent
1218, 2218, 3218	SENS MOT TEMP KO	Controller Dependent
1220, 2220, 3220	VKEY OFF SHORTED	Controller Dependent
1223, 2223, 3223	Contactor Coil Short	Controller Dependent
1227, 2227, 3227	Current Sensor Fault	Controller Dependent

List of Fault Codes (Motor Controller)		
Display	**Description**	**Lift Reaction**
1229, 2229, 3229	Hard Fault	Controller Dependent
1230, 2230, 3230	Contactor Coil Open	Controller Dependent
1248, 2248, 3248	NO CAN MSG.	Controller Dependent

List of Fault Codes (Battery BMS)		
Display	**Description**	**Lift Reaction**
4001	Low Charging Temperature 2	Lift and Drive Speed Limit
4002	Low Charging Temperature 3	Disables All Motion
4003	High Charging Temperature 2	Lift and Drive Speed Limit
4004	High Charging Temperature 3	Disables All Motion
4005	Low Discharging Temperature 2	Lift and Drive Speed Limit
4006	Low Discharging Temperature 3	Disables All Motion
4007	High Discharging Temperature 2	Lift and Drive Speed Limit
4008	High Discharging Temperature 3	Disables All Motion
4009	Temperature Imbalance 2	Lift and Drive Speed Limit
4010	Temperature Imbalance 3	Disables All Motion
4011	Pad Temperature High 2	Lift and Drive Speed Limit
4012	Pad Temperature High 3	Disables All Motion
4013	Low SOC 2	Lift and Drive Speed Limit
4014	Low SOC 3	Disables All Motion
4015	High SOC 2	Lift and Drive Speed Limit
4016	High SOC 3	Disables All Motion
4017	Discharge Total Voltage High 2	Lift and Drive Speed Limit
4018	Discharge Total Voltage High 3	Disables All Motion
4019	Discharge Total Voltage Low 2	Lift and Drive Speed Limit
4020	Discharge Total Voltage Low 3	Disables All Motion
4021	Charge Total Voltage High 2	Lift and Drive Speed Limit
4022	Charge Total Voltage High 3	Disables All Motion
4023	High Charge Current 2	Lift and Drive Speed Limit
4024	High Charge Current 3	Disables All Motion
4025	High Discharge Current 2	Lift and Drive Speed Limit
4026	High Discharge Current 2	Disables All Motion
4027	Discharge Cell Voltage High 2	Lift and Drive Speed Limit
4028	Discharge Cell Voltage High 3	Disables All Motion
4029	Discharge Cell Voltage Low 2	Lift and Drive Speed Limit
4030	Discharge Cell Voltage Low 3	Disables All Motion
4031	Charge Cell Voltage Low 2	Lift and Drive Speed Limit
4032	Charge Cell Voltage Low 3	Disables All Motion
4033	Cell Voltage Imbalance 2	Lift and Drive Speed Limit
4034	Cell Voltage Imbalance 3	Disables All Motion
4035	Main Relay Adhesion 2	Lift and Drive Speed Limit
4036	Main Relay Adhesion 3	Disables All Motion
4037	Heating Relay Adhesion 2	Lift and Drive Speed Limit
4038	Heating Relay Adhesion 3	Disables All Motion

List of Fault Codes (Battery BMS)		
Display	**Description**	**Lift Reaction**
4039	High Monomer 2	Lift and Drive Speed Limit
4040	High Monomer 3	Disables All Motion
4041	Low Monomer 2	Lift and Drive Speed Limit
4042	Low Monomer 3	Disables All Motion
4043	High Temperature 2	Lift and Drive Speed Limit
4044	High Temperature 3	Disables All Motion

Display	Description
5129, 6129	Communication Error with IC
5130, 6130	Encoder Failure
5131, 6131	Power Input Over Voltage
5132, 6132	Power Input Low Voltage
5133, 6133	Motor Over Heat
5134, 6134	MOSFET Over Temperature
5135, 6135	MOSFET Over Current
5138, 6138	CAN Bus Communication Timeout
5139, 6139	NV Storage Read Error
5140, 6140	NV Storage Write Error
5141, 6141	MOSFET Error
5142, 6142	Auto-calibrati
5143, 6143	Motor Blocked Error
5144, 6144	Motor Blocked Warning
5145, 6145	Actuator Unwanted Movement
5146, 6146	Encoder Auto-Calibration Error
5147, 6147	Motor Run in Wrong Direction
5148, 6148	Encoder Calibration Data Warning
5149, 6149	Encoder Error
5150, 6150	Encoder Calibration Timeout
5151, 6151	Encoder Sensor IIC Error
5152, 6152	Encoder IC Communication Error
5153, 6153	Encoder Sensor IIC Warning
5154, 6154	Encoder IC Communication Warning
5155, 6155	Motor Speed too High
5156, 6156	CAN Peripheral Failure
5157, 6157	CAN Systick Failure
5158, 6158	CAN Wrong PDO
5159, 6159	CAN Status Frame Lost
5160, 6160	CAN Command Frame Lost
5161, 6161	CAN Wrong Node ID
5162, 6162	CAN PDO not Correct
5163, 6163	CAN Wrong Frame Values
5164, 6164	STO Signal is Invalid
5165, 6165	Communication between MCU1 and MCU2 Error
5166, 6166	Redundancy STO signal is Invalid

Hydraulic Schematic

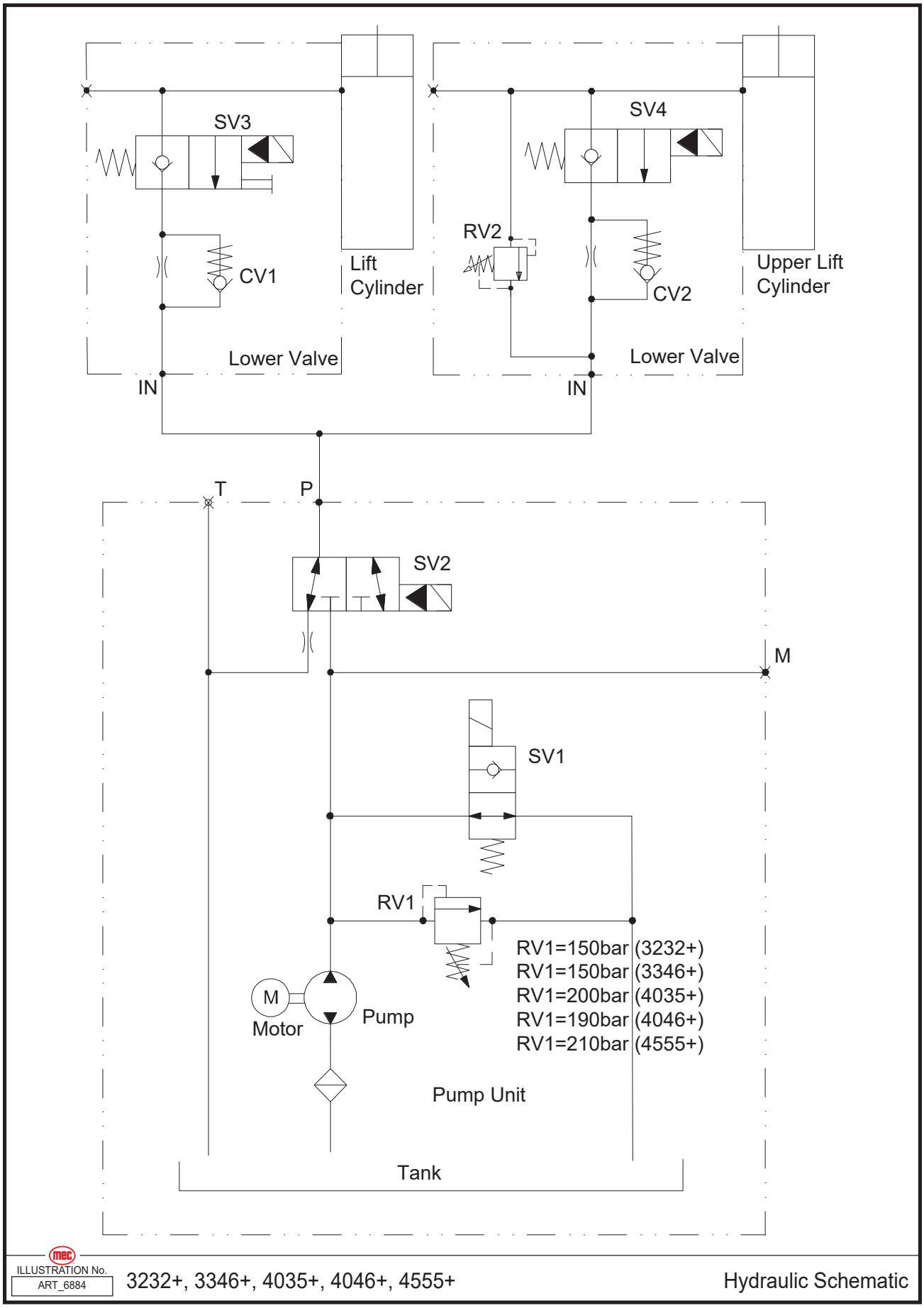


ILLUSTRATION No. ART_6884

3232+, 3346+, 4035+, 4046+, 4555+ Hydraulic Schematic

Electrical Schematic

