



Error codes

Error code	Error object	Error	Error information	Troubleshooting
CH_232100	Slew valve output channel 1 (V1)	Output current too high	Output channel error Maximum current limit exceeded: - Possible short circuit to ground - Unsuitable valve configuration	- Check cable connections between controller and valve - Measure coil resistance of the valve. Check the coil resistance value from the valve manufacturer.
CH_232101	Slew valve output channel 2 (V1)			
CH_232104	Lift valve output channel 1 (V2)			
CH_232105	Lift valve output channel 2 (V2)			
CH_232108	Outer boom valve output channel 1 (V3)			
CH_232109	Outer boom valve output channel 2 (V3)			
CH_23210C	Rotator valve output channel 1 (V4)			
CH_23210D	Rotator valve output channel 2 (V4)			
CH_232110	Extension valve output channel 1 (V5)			
CH_232111	Extension valve output channel 2 (V5)			
CH_232114	Grapple valve output channel 1 (V6)			
CH_232115	Grapple valve output channel 2 (V6)			
CH_232118	Valve7 output channel 1 (V7)			
CH_232119	Valve7 output channel 2 (V7)			
CH_23211C	Valve8 output channel 1 (V8)			
CH_23211D	Valve8 output channel 2 (V8)			
CH_232120	Valve9 output channel 1 (V9)			
CH_232121	Valve9 output channel 2 (V9)			
CH_232124	Valve10 output channel 1 (V10)			
CH_232125	Valve10 output channel 2 (V10)			
CH_232128	Valve11 output channel 1 (V11)			
CH_232129	Valve11 output channel 2 (V11)			
CH_23212C	Valve12 output channel 1 (V12)			
CH_23212D	Valve12 output channel 2 (V12)			



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CH_232130	VREF Channel 0 (TEC152 A50 / TEC172 A9)	Output current too high	Voltage output channel error Maximum current limit exceeded: - Short circuit to ground - wrong configuration set up	- Check cable connection between controller and valve
CH_232131	VREF Channel 1 (TEC152 A69 / TEC172 A6)			
CH_232132	VREF Channel 2 (TEC152 A47 / TEC172 A4)			
CH_232133	VREF Channel 3 (TEC152 A66 / TEC172 A7)			
CH_232134	VOOUT Channel 0 (TEC152 A12 / TEC172 A1)			
CH_232135	VOOUT Channel 1 (TEC152 A13 / TEC172 A13)			
CH_232136	VOOUT Channel 2 (NA / TEC172 A12)			
CH_232137	VOOUT Channel 3 (NA / TEC172 A23)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
CH_232200	Slew valve output channel 1 (V1)	Output current too low	Output channel error Current below minimum limit: - Resistance too high	- Check cable connections between controller and valve - Measure coil resistance of the valve. Check the coil resistance value from the valve manufacturer.
CH_232201	Slew valve output channel 2 (V1)			
CH_232204	Lift valve output channel 1 (V2)			
CH_232205	Lift valve output channel 2 (V2)			
CH_232208	Outer boom valve output channel 1 (V3)			
CH_232209	Outer boom valve output channel 2 (V3)			
CH_23220C	Rotator valve output channel 1 (V4)			
CH_23220D	Rotator valve output channel 2 (V4)			
CH_232210	Extension valve output channel 1 (V5)			
CH_232211	Extension valve output channel 2 (V5)			
CH_232214	Grapple valve output channel 1 (V6)			
CH_232215	Grapple valve output channel 2 (V6)			
CH_232218	Valve7 output channel 1 (V7)			
CH_232219	Valve7 output channel 2 (V7)			
CH_23221C	Valve8 output channel 1 (V8)			
CH_23221D	Valve8 output channel 2 (V8)			
CH_232220	Valve9 output channel 1 (V9)			
CH_232221	Valve9 output channel 2 (V9)			
CH_232224	Valve10 output channel 1 (V10)			
CH_232225	Valve10 output channel 2 (V10)			
CH_232228	Valve11 output channel 1 (V11)			
CH_232229	Valve11 output channel 2 (V11)			
CH_23222C	Valve12 output channel 1 (V12)			
CH_23222D	Valve12 output channel 2 (V12)			

Error code	Error object	Error	Error information	Troubleshooting
CH_332130	VREF Channel 0 (TEC152 A50 / TEC172 A9)	Output voltage too high	Voltage output channel error Maximum Voltage limit exceeded - Possible short circuit to other supply voltage - Broken sensor or other load	- Check cable connections between controller and valve
CH_332131	VREF Channel 1 (TEC152 A69 / TEC172 A6)			
CH_332132	VREF Channel 2 (TEC152 A47 / TEC172 A4)			
CH_332133	VREF Channel 3 (TEC152 A66 / TEC172 A7)			
CH_332134	VOUT Channel 0 (TEC152 A12 / TEC172 A1)			
CH_332135	VOUT Channel 1 (TEC152 A13 / TEC172 A13)			
CH_332136	VOUT Channel 2 (NA / TEC172 A12)			
CH_332137	VOUT Channel 3 (NA / TEC172 A23)			
CH_332231	VREF Channel 0 (TEC152 A50 / TEC172 A9)	Output voltage too low	Voltage output channel error Minimum Voltage limit exceeded: - Broken sensor or other load - Possbile short circuit to ground - Too high load	- Check cable connections between controller and valve
CH_332232	VREF Channel 1 (TEC152 A69 / TEC172 A6)			
CH_332233	VREF Channel 2 (TEC152 A47 / TEC172 A4)			
CH_332234	VREF Channel 3 (TEC152 A66 / TEC172 A7)			
CH_332235	VOUT Channel 0 (TEC152 A12 / TEC172 A1)			
CH_332236	VOUT Channel 1 (TEC152 A13 / TEC172 A13)			
CH_332237	VOUT Channel 2 (NA / TEC172 A12)			
CH_332238	VOUT Channel 3 (NA / TEC172 A23)			



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CH_FF6000	Slew valve output channel 1 (V1)	Output general	Output channel general error: - Contact dealer	
CH_FF6001	Slew valve output channel 2 (V1)			
CH_FF6004	Lift valve output channel 1 (V2)			
CH_FF6005	Lift valve output channel 2 (V2)			
CH_FF6008	Outer boom valve output channel 1 (V3)			
CH_FF6009	Outer boom valve output channel 2 (V3)			
CH_FF600C	Rotator valve output channel 1 (V4)			
CH_FF600D	Rotator valve output channel 2 (V4)			
CH_FF6010	Extension valve output channel 1 (V5)			
CH_FF6011	Extension valve output channel 2 (V5)			
CH_FF6014	Grapple valve output channel 1 (V6)			
CH_FF6015	Grapple valve output channel 2 (V6)			
CH_FF6018	Valve7 output channel 1 (V7)			
CH_FF6019	Valve7 output channel 2 (V7)			
CH_FF601C	Valve8 output channel 1 (V8)			
CH_FF601D	Valve8 output channel 2 (V8)			
CH_FF6020	Valve9 output channel 1 (V9)			
CH_FF6021	Valve9 output channel 2 (V9)			
CH_FF6024	Valve10 output channel 1 (V10)			
CH_FF6025	Valve10 output channel 2 (V10)			
CH_FF6028	Valve11 output channel 1 (V11)			
CH_FF6029	Valve11 output channel 2 (V11)			
CH_FF602C	Valve12 output channel 1 (V12)			
CH_FF602D	Valve12 output channel 2 (V12)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
CH_FF6100	Slew valve output channel 1 (V1)	Output short to battery	Output channel error: - Short circuit to battery or other external voltage	- Check cable connections between controller and valve
CH_FF6101	Slew valve output channel 2 (V1)			
CH_FF6104	Lift valve output channel 1 (V2)			
CH_FF6105	Lift valve output channel 2 (V2)			
CH_FF6108	Outer boom valve output channel 1 (V3)			
CH_FF6109	Outer boom valve output channel 2 (V3)			
CH_FF610C	Rotator valve output channel 1 (V4)			
CH_FF610D	Rotator valve output channel 2 (V4)			
CH_FF6110	Extension valve output channel 1 (V5)			
CH_FF6111	Extension valve output channel 2 (V5)			
CH_FF6114	Grapple valve output channel 1 (V6)			
CH_FF6115	Grapple valve output channel 2 (V6)			
CH_FF6118	Valve7 output channel 1 (V7)			
CH_FF6119	Valve7 output channel 2 (V7)			
CH_FF611C	Valve8 output channel 1 (V8)			
CH_FF611D	Valve8 output channel 2 (V8)			
CH_FF6120	Valve9 output channel 1 (V9)			
CH_FF6121	Valve9 output channel 2 (V9)			
CH_FF6124	Valve10 output channel 1 (V10)			
CH_FF6125	Valve10 output channel 2 (V10)			
CH_FF6128	Valve11 output channel 1 (V11)			
CH_FF6129	Valve11 output channel 2 (V11)			
CH_FF612C	Valve12 output channel 1 (V12)			
CH_FF612D	Valve12 output channel 2 (V12)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
CH_FF6300	Slew valve output channel 1 (V1)	Output open load	Output channel error Output disconnected - Possible brake in wire harness - Valve connector disconnected - PLC connector disconnected	- Check cable connections controller and valve
CH_FF6301	Slew valve output channel 2 (V1)			
CH_FF6304	Lift valve output channel 1 (V2)			
CH_FF6305	Lift valve output channel 2 (V2)			
CH_FF6308	Outer boom valve output channel 1 (V3)			
CH_FF6309	Outer boom valve output channel 2 (V3)			
CH_FF630C	Rotator valve output channel 1 (V4)			
CH_FF630D	Rotator valve output channel 2 (V4)			
CH_FF6310	Extension valve output channel 1 (V5)			
CH_FF6311	Extension valve output channel 2 (V5)			
CH_FF6314	Grapple valve output channel 1 (V6)			
CH_FF6315	Grapple valve output channel 2 (V6)			
CH_FF6318	Valve7 output channel 1 (V7)			
CH_FF6319	Valve7 output channel 2 (V7)			
CH_FF631C	Valve8 output channel 1 (V8)			
CH_FF631D	Valve8 output channel 2 (V8)			
CH_FF6320	Valve9 output channel 1 (V9)			
CH_FF6321	Valve9 output channel 2 (V9)			
CH_FF6324	Valve10 output channel 1 (V10)			
CH_FF6325	Valve10 output channel 2 (V10)			
CH_FF6328	Valve11 output channel 1 (V11)			
CH_FF6329	Valve11 output channel 2 (V11)			
CH_FF632C	Valve12 output channel 1 (V12)			
CH_FF632D	Valve12 output channel 2 (V12)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
CH_FF6400	Slew valve output channel 1 (V1)	Valve configure error	Valve configuration error - Unsuitable valve configuration - Contact dealer	
CH_FF6401	Slew valve output channel 2 (V1)			
CH_FF6404	Lift valve output channel 1 (V2)			
CH_FF6405	Lift valve output channel 2 (V2)			
CH_FF6408	Outer boom valve output channel 1 (V3)			
CH_FF6409	Outer boom valve output channel 2 (V3)			
CH_FF640C	Rotator valve output channel 1 (V4)			
CH_FF640D	Rotator valve output channel 2 (V4)			
CH_FF6410	Extension valve output channel 1 (V5)			
CH_FF6411	Extension valve output channel 2 (V5)			
CH_FF6414	Grapple valve output channel 1 (V6)			
CH_FF6415	Grapple valve output channel 2 (V6)			
CH_FF6418	Valve7 output channel 1 (V7)			
CH_FF6419	Valve7 output channel 2 (V7)			
CH_FF641C	Valve8 output channel 1 (V8)			
CH_FF641D	Valve8 output channel 2 (V8)			
CH_FF6420	Valve9 output channel 1 (V9)			
CH_FF6421	Valve9 output channel 2 (V9)			
CH_FF6424	Valve10 output channel 1 (V10)			
CH_FF6425	Valve10 output channel 2 (V10)			
CH_FF6428	Valve11 output channel 1 (V11)			
CH_FF6429	Valve11 output channel 2 (V11)			
CH_FF642C	Valve12 output channel 1 (V12)			
CH_FF642D	Valve12 output channel 2 (V12)			


Error codes

Error code	Error object	Error	Error information	Troubleshooting
CH_FF704A	Lift cylinder sensor	Sensor general error	Sensor error - Cylinder length measurement error	
CH_FF704B	Outerboom cylinder sensor			
CH_FF704C	Extension cylinder sensor			
CH_FF704D	Oil filter pressure switch		NOT AVAILABLE	
CH_FF704E	Traction pressure M1_A	Sensor general error	General sensor error - Signal read error - Parameter error	
CH_FF704F	Traction pressure M1_B			
CH_FF7050	Traction pressure M2_A			
CH_FF7051	Traction pressure M2_B			
CH_FF7052	IMU Base sensor timeout	Sensor general error	Sensor communication error - CAN communication error - Physical sensor fault	
CH_FF7053	IMU Lift sensor timeout			
CH_FF7054	IMU Tilt sensor timeout			
CH_FF7055	Extension sensor timeout			
CH_FF7056	IMU Base sensor calibration error	Sensor general error	Sensor calibration error - Sensor configuration error - Unsuitable mounting position	
CH_FF7057	IMU Lift sensor calibration error			
CH_FF7058	IMU Outerboom calibration error			
CH_FF7059	Slew sensor error			
CH_FF714E	Traction pressure M1_A	Sensor Signal too low	Sensor signal too low - Possible short circuit to ground - Faulty sensor	- Check cable connections between controller and sensor - Check sensor for physical damage
CH_FF714F	Traction pressure M1_B			
CH_FF7150	Traction pressure M2_A			
CH_FF7151	Traction pressure M2_B			
CH_FF724E	Traction pressure M1_A	Sensor signal too high	Sensor Signal too high - Possible short circuit to supply - Faulty sensor	- Check cable connections between controller and valve - Check sensor for physical damage
CH_FF724F	Traction pressure M1_B			
CH_FF7250	Traction pressure M2_A			
CH_FF7251	Traction pressure M2_B			

Error code	Error object	Error	Error information	Troubleshooting
CH_FF734E	Traction pressure M1_A	Sensor parameter error	Sensor Parameter error - Configure error - Unsuitable sensor - Contact dealer	
CH_FF734F	Traction pressure M1_B			
CH_FF7350	Traction pressure M2_A			
CH_FF7351	Traction pressure M2_B			
CH_FF744E	Traction pressure M1_A	Sensor Vref error	Sensor Vref channel error - Fault in sensor supply line	- Check cable connections between controller and valve
CH_FF744F	Traction pressure M1_B			
CH_FF7450	Traction pressure M2_A			
CH_FF7451	Traction pressure M2_B			
F_632000	Default configure	Parameter read error	Configuration file error - Required configuration files missing	- Download required files from USB stick
F_632001	Current configure			
F_632002	Default Driver	Parameter read error	Parameter file error - Required parameter files missing - XCDEF.DAT	- Download required files from USB stick
F_632003	Current Driver			
F_632004	Driver 1	Parameter read error	Parameter file error - Optional parameter files missing - XCDRIVE*.DAT *(1..5)	- Download required files from USB stick
F_632005	Driver 2			
F_632006	Driver 3			
F_632007	Driver 4			
F_632008	Driver 5			
F_632009	Custom valve configure	Parameter read error	Configuration file error - Required configuration files missing	- Download required files from USB stick
F_63200A	Valve PIN configure			


Error codes

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F_632100	Default configure	Parameter write error	NOT IMPLEMENTED	
F_632101	Current configure			
F_632102	Default Driver			
F_632103	Current Driver			
F_632104	Driver 1			
F_632105	Driver 2			
F_632106	Driver 3			
F_632107	Driver 4			
F_632108	Driver 5			
F_632109	Custom valve configure			
F_63210A	Valve PIN configure			
D_634001	Remote device invalid	Configure error	Configuration mismatch with Software version: - Invalid remote (CAN) joystick configuration - Contact dealer	
D_635002	Configure file system	File system error	PLC File system error - File system has corrupted	
D_635103	Data file system	Data Filesystem error	- Contact dealer	
D_FF2005	Statistic data read error	Diagnostic counters checksum error	Statistic data read error: - Internal error while reading statistic data - Working/Power on time read error	



Error codes

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JS_FF1000	left joystick (Channel X1)	Joystick general	Left joystick general error - Parameter error - Signal read error	
JS_FF1001	left joystick (Channel X2)			
JS_FF1002	left joystick (Channel Y1)			
JS_FF1003	left joystick (Channel Y2)			
JS_FF1004	left joystick (Channel Z1)			
JS_FF1005	left joystick (Channel Z2)			
JS_FF1006	left joystick (Channel Propo A1)			
JS_FF1007	left joystick (Channel Propo A2)			
JS_FF1008	left joystick (Channel Propo B1)			
JS_FF1009	left joystick (Channel Propo B2)			
JS_FF1080	Right joystick (Channel X1)	Joystick general	Right joystick general error - Parameter error - Signal read error	
JS_FF1081	Right joystick (Channel X2)			
JS_FF1082	Right joystick (Channel Y1)			
JS_FF1083	Right joystick (Channel Y2)			
JS_FF1084	Right joystick (Channel Z1)			
JS_FF1085	Right joystick (Channel Z2)			
JS_FF1086	Right joystick (Channel Propo A1)			
JS_FF1087	Right joystick (Channel Propo A2)			
JS_FF1088	Right joystick (Channel Propo B1)			
JS_FF1089	Right joystick (Channel Propo B2)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
JS_FF1100	left joystick (Channel X1)	Joystick signal difference too high	Left Joystick signal error - Sensor signal difference too high - Applicable only if dual channel measurement is used - Joystick axis sensor signal difference is too high	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1101	left joystick (Channel X2)			
JS_FF1102	left joystick (Channel Y1)			
JS_FF1103	left joystick (Channel Y2)			
JS_FF1104	left joystick (Channel Z1)			
JS_FF1105	left joystick (Channel Z2)			
JS_FF1106	left joystick (Channel Propo A1)			
JS_FF1107	left joystick (Channel Propo A2)			
JS_FF1108	left joystick (Channel Propo B1)			
JS_FF1109	left joystick (Channel Propo B2)			
JS_FF1180	Right joystick (Channel X1)	Joystick signal difference too high	Right Joystick signal error - Sensor signal difference too high - Applicable only if dual channel measurement is used - Joystick axis sensor signal difference is too high	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1181	Right joystick (Channel X2)			
JS_FF1182	Right joystick (Channel Y1)			
JS_FF1183	Right joystick (Channel Y2)			
JS_FF1184	Right joystick (Channel Z1)			
JS_FF1185	Right joystick (Channel Z2)			
JS_FF1186	Right joystick (Channel Propo A1)			
JS_FF1187	Right joystick (Channel Propo A2)			
JS_FF1188	Right joystick (Channel Propo B1)			
JS_FF1189	Right joystick (Channel Propo B2)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
JS_FF1200	left joystick (Channel X1)	Joystick signal too high	Left Joystick signal error - Sensor signal too high - Sensor signal short circuit to reference voltage - Sensor signal short circuit to external voltage	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1201	left joystick (Channel X2)			
JS_FF1202	left joystick (Channel Y1)			
JS_FF1203	left joystick (Channel Y2)			
JS_FF1204	left joystick (Channel Z1)			
JS_FF1205	left joystick (Channel Z2)			
JS_FF1206	left joystick (Channel Propo A1)			
JS_FF1207	left joystick (Channel Propo A2)			
JS_FF1208	left joystick (Channel Propo B1)			
JS_FF1209	left joystick (Channel Propo B2)			
JS_FF1280	Right joystick (Channel X1)	Joystick signal too high	Right Joystick signal error - Sensor signal too high - Sensor signal short circuit to reference voltage - Sensor signal short circuit to external voltage	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1281	Right joystick (Channel X2)			
JS_FF1282	Right joystick (Channel Y1)			
JS_FF1283	Right joystick (Channel Y2)			
JS_FF1284	Right joystick (Channel Z1)			
JS_FF1285	Right joystick (Channel Z2)			
JS_FF1286	Right joystick (Channel Propo A1)			
JS_FF1287	Right joystick (Channel Propo A2)			
JS_FF1288	Right joystick (Channel Propo B1)			
JS_FF1289	Right joystick (Channel Propo B2)			



Error codes

Error code	Error object	Error	Error information	Troubleshooting
JS_FF1300	left joystick (Channel X1)	Joystick signal too low	Left Joystick signal error - Sensor signal too low - Sensor signal short circuit to ground - Joystick configuration error	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1301	left joystick (Channel X2)			
JS_FF1302	left joystick (Channel Y1)			
JS_FF1303	left joystick (Channel Y2)			
JS_FF1304	left joystick (Channel Z1)			
JS_FF1305	left joystick (Channel Z2)			
JS_FF1306	left joystick (Channel Propo A1)			
JS_FF1307	left joystick (Channel Propo A2)			
JS_FF1308	left joystick (Channel Propo B1)			
JS_FF1309	left joystick (Channel Propo B2)			
JS_FF1380	Right joystick (Channel X1)	Joystick signal too low	Right Joystick signal error - Sensor signal too low - Sensor signal short circuit to ground - Joystick configuration error	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1381	Right joystick (Channel X2)			
JS_FF1382	Right joystick (Channel Y1)			
JS_FF1383	Right joystick (Channel Y2)			
JS_FF1384	Right joystick (Channel Z1)			
JS_FF1385	Right joystick (Channel Z2)			
JS_FF1386	Right joystick (Channel Propo A1)			
JS_FF1387	Right joystick (Channel Propo A2)			
JS_FF1388	Right joystick (Channel Propo B1)			
JS_FF1389	Right joystick (Channel Propo B2)			



Error codes

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JS_FF1520	left joystick	Joystick VREF Error	Voltage reference error - Internal module error	
JS_FF1521	Right joystick			
JS_FF1622	Left joystick / Right joystick	Joystick button supply error	Button supply channel error - Button supply short circuit to ground	



Error codes

Error code	Error object	Error	Error information	Troubleshooting
JS_FF1700	left joystick (Channel X1)	Joystick channel not centered	Joystick not centered during start up	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1701	left joystick (Channel X2)			
JS_FF1702	left joystick (Channel Y1)			
JS_FF1703	left joystick (Channel Y2)			
JS_FF1704	left joystick (Channel Z1)			
JS_FF1705	left joystick (Channel Z2)			
JS_FF1706	left joystick (Channel Propo A1)			
JS_FF1707	left joystick (Channel Propo A2)			
JS_FF1708	left joystick (Channel Propo B1)			
JS_FF1709	left joystick (Channel Propo B2)			
JS_FF1780	Right joystick (Channel X1)	Joystick channel not centered	Joystick not centered during start up	- Check cable connections between controller and joystick - Check joystick for physical damage
JS_FF1781	Right joystick (Channel X2)			
JS_FF1782	Right joystick (Channel Y1)			
JS_FF1783	Right joystick (Channel Y2)			
JS_FF1784	Right joystick (Channel Z1)			
JS_FF1785	Right joystick (Channel Z2)			
JS_FF1786	Right joystick (Channel Propo A1)			
JS_FF1787	Right joystick (Channel Propo A2)			

xCrane Error codes

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USB_00	Idle	USB file transfer error	USB file tranfer corrupted - Unsuitable USB device - Unsuitable file format - Missing required file - Communication corrupted	
USB_01	Operation active			
USB_02	Operation success			
USB_80	No such file			
USB_81	Communication error			
USB_82	File write error			
USB_83	File read error			
USB_84	File verify error			
USB_85	ZIP creation error			
USB_86	ZIP extract error			
USB_87	ZIP CRC error			
USB_88	ZIP mount error			
USB_89	Writing not allowed			
USB_C0	Other error			