HIAB XS Service Manual Electronics

Error Codes
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HIAB

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Contents

Error Decription Codes SPACE

General

Here follows a list of all the possible error messages from the SPACE systems program, a short description of them and the action taken by the errors. The different actions are:

- ERR_BLINK   The error lamp in the PSB blinks
- EMER_STOP   Emergency Stop (dumpvalve deactivated)
- LO_SPEED   The max allowed speeds are reduced to **err_speed** (%)
- LOS_SPEED   The full inner boom LOS speed reduction is set for the different functions (**err_speed** used if the crane doesn't have LOS)
- LO_LOAD   The max allowed loads for inner boom, outer boom and jib is reduced to **err_load** % of what the max allowed speed otherwise should be.
- STOP_OUT   The out-direction for the extension and jib-extension are stopped.
- PSBI_DUMP   SPACE asks the PSBI to switch off the dump supply. This action is automatically disabled the first 10 seconds after power-on.

Most of the errors are reset automatically when the faulty condition disappears, but a few errors requires to be reset manually. A manual reset can be done with the terminal (ERRORS / CLEAR) or by switching the SPACE power off and on.

SPACE RadioDrive

E 0 :	Low Power	EMER_STOP
E 1 :	Internal Error (Int)	
E 2 :	No I/O-voltage	EMER_STOP + ERR_BLINK
E 3 :	No Dump-voltage	EMER_STOP
E 4 :	Remote receive error	ERR_BLINK
E 5 :	Parameter error	LO_SPEED + ERR_BLINK
E 6 :	Internal Error (Time)	
E 7 :	No Relay box supply voltage	EMER_STOP + ERR_BLINK
E 8 :	System type lost	ERR_BLINK
E 9 :	Internal Error (PBuf)	
E 10 :	Dump Output Error	EMER_STOP + PSBI_DUMP + ERR_BLINK
E 11 :	One jib-sensor unconnected	LO_SPEED + ERR_BLINK
E 12 :	Both jib and winch connected	LO_SPEED + LO_LOAD + ERR_BLINK
E 13 :	Winch indicator error	LO_SPEED + LO_LOAD + ERR_BLINK
E 14 :	Slewing-sector error	LO_SPEED + LO_LOAD + ERR_BLINK
E 15 :	Inner Boom Pressure error	LOS_SPEED + ERR_BLINK
E 16 :	Jib Out Pressure error	LO_SPEED + ERR_BLINK
E 17 :	Jib In Pressure error	LO_SPEED + ERR_BLINK
E 18 :	Internal Error (Log)	ERR_BLINK
E 19 :	Micro-mode selector error	LO_SPEED + LO_LOAD + ERR_BLINK
E 20 :	System not running	ERR_BLINK
E 21 :	No Box-supply voltage	EMER_STOP + ERR_BLINK
E 22 :	No Outer Boom Tilt Indicator	LO_SPEED + ERR_BLINK
E 23 :	No Inner Boom Tilt Indicator	LO_SPEED + ERR_BLINK
E 24 :	Outer Boom Pressure error	LO_SPEED + ERR_BLINK
E 25 :	IO-voltage in (A1) out of range	LO_SPEED + ERR_BLINK
E 26 :	Lever-sensor 7 (A2) out of range	LO_LOAD + ERR_BLINK
E 27 :	Lever-sensor 4 (A3) out of range	LO_LOAD + ERR_BLINK
E 28 :	Lever-sensor 5 (A4) out of range	LO_LOAD + ERR_BLINK
E 29 :	Lever-sensor 6 (A5) out of range	LO_LOAD + ERR_BLINK
E 30 :	Lever-sensor 1 (A6) out of range	LO_LOAD + ERR_BLINK
E 31 :	Lever-sensor 2 (A7) out of range	LO_LOAD + ERR_BLINK
E 32 :	Lever-sensor 3 (A8) out of range	LO_LOAD + ERR_BLINK
E 33 :	Outer boom press (B1) out of range	LO_SPEED + STOP_OUT + ERR_BLINK
E 34 :	Outer boom tilt (B2) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 35 :	Inner boom angle (B3) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 36 :	Jib in pressure (B4) out of range	LO_SPEED + ERR_BLINK
E 37 :	Jib out pressure (B5) out of range	LO_SPEED + ERR_BLINK
E 38 :	Jib tilt (B6) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 39 :	Winch sensors (B7) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 40 :	Micro-mode input (B8) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 41 :	Relay-box volt out (C1) out of range	LO_SPEED + ERR_BLINK
E 42 :	DUMP-voltage in (C2) out of range	LO_SPEED + ERR_BLINK
E 43 :	DUMP-voltage out (C3) out of range	ERR_BLINK
E 44 :	Man/REM-sw (C4) out of range	LO_SPEED + ERR_BLINK
E 45 :	Conn-box volt out (C5) out of range,	LO_SPEED + LO_LOAD + ERR_BLINK
E 46 :	Slew angle sens (C6) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 47 :	Temp sensor (C7) out of range	LO_SPEED + ERR_BLINK
E 48 :	Inner boom press (C8) out of range	LOS_SPEED + STOP_OUT + ERR_BLINK

E 49 :	Inner Boom Angle error	LO_SPEED + ERR_BLINK
E 50 :	No Inner Boom Pressure Sensor	LOS_SPEED + ERR_BLINK
E 51 :	No Outer Boom Pressure Sensor	LO_SPEED + ERR_BLINK
E 52 :	Lever not centered at startup	ERR_BLINK
E 53 :	Remote lever not centered at startup	ERR_BLINK
E 54 :	Remote lever error	LO_SPEED+ERR_BLINK
E 55 :	Radio protocol missing	ERR_BLINK
E 56 :	Radio protocol error	ERR_BLINK
E 57 :	Support legs not set	SUPP_LOAD+ERR_BLINK
E 58 :	Multiplexer 1 error	LO_SPEED + ERR_BLINK
E 59 :	Multiplexer 2 error	LO_SPEED + ERR_BLINK
E 60 :	Multiplexer 3 error	LO_SPEED + ERR_BLINK
E 61 :	Micro ON/OFF-switch error	LO_LOAD + LO_SPEED + ERR_BLINK
E 62 :	A/D-converter 1 error	LO_LOAD + LO_SPEED + ERR_BLINK
E 63 :	A/D-converter 2 error	LO_LOAD + LO_SPEED + ERR_BLINK
E 64 :	A/D-converter 3 error	LO_LOAD + LO_SPEED + ERR_BLINK
E 65 :	Real Time Lost	
E 66 :		
E 67 :		
E 68 :		
E 69 :		
E 70 :		
E 71 :	PLC Program Lost	ERR_BLINK
E 72 :	PLC Program Error	ERR_BLINK
E 73 :	PLC Error 1	ERR_BLINK
E 74 :	PLC Error 2	ERR_BLINK
E 75 :	PLC Error 3	ERR_BLINK
E 76 :	PLC Error 4	ERR_BLINK
E 77 :	Remote battery empty	ERR_BLINK
E 78 :	Remote output open	ERR_BLINK
E 79 :	Remote output shorted	ERR_BLINK
E 80 :	Remote output shorted	ERR_BLINK
E 81 :		
E 82 :		
E 83 :		
E 84 :		
E 85 :		
E 86 :		
E 87 :		
E 88 :		
E 89 :		

SPACE 3000/4000

E 0 :	Lo power	EMER_STOP + ERR_LAMP
E 1 :	I/O-fuse	EMER_STOP + ERR_LAMP
E 2 :	DMP-fuse	EMER_STOP + ERR_LAMP
E 3 :	Emergency STOP	EMER_STOP
E 4 :	DMP-output	EMER_STOP + PWR_OFF + ERR_LAMP
E 5 :	Em Stop Chain	EMER_STOP + ERR_LAMP
E 6 :	Column-fuse	EMER_STOP + ERR_LAMP
E 7 :	Terminal-fuse	EMER_STOP + ERR_LAMP
E 8 :	CAN-fuse	EMER_STOP + ERR_LAMP
E 9 :	HORN-output error	ERR_LAMP
E 10 :	Extended box error	LO_LOAD + ERR_LAMP
E 11 :	Internal Error	ERR_LAMP
E 12 :	Spool sensor 1 (ch0/P1:3) OOR	LO_LOAD + ERR_LAMP
E 13 :	Spool sensor 2 (ch1/P1:4) OOR	LO_LOAD + ERR_LAMP
E 14 :	Spool sensor 3 (ch2/P1:5) OOR	LO_LOAD + ERR_LAMP
E 15 :	Spool sensor 4 (ch3/P1:6) OOR	LO_LOAD + ERR_LAMP
E 16 :	Spool sensor 5 (ch4/P2:3) OOR	LO_LOAD + ERR_LAMP
E 17 :	Spool sensor 6 (ch5/P2:4) OOR	LO_LOAD + ERR_LAMP
E 18 :	Spool sensor 7 (ch6/EXT-P5:3) OOR	LO_LOAD + ERR_LAMP
E 19 :	Spool sensor 8 (ch7/EXT-P5:4) OOR	LO_LOAD + ERR_LAMP
E 20 :	2nd inner boom tilt (ch8/P5:8) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 21 :	Winch sensors (ch9/P5:7) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 22 :	Inner boom tilt (ch10/P5:6) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 23 :	Outer boom tilt (ch11/P5:5) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 24 :	Outer boom press (ch12/P5:4) OOR	LO_SPEED + STOP_OUT + ERR_LAMP
E 25 :	Inner boom press (ch13/P5:3) OOR	LO_SPEED + STOP_OUT + ERR_LAMP
E 26 :	Slew indicator (ch14/P6:3) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 27 :		
E 28 :	Spool sensor 9 (ch16/P5:9) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 29 :	On platform ind (ch17/EXT-P4:3) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 30 :	Extra ind (ch18/EXT-P10:3) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 31 :	Slew sector 1	LO_SPEED + LO_LOAD + ERR_LAMP
E 32 :	Slew sector 2	LO_SPEED + LO_LOAD + ERR_LAMP
E 33 :	Slew sector 3	LO_SPEED + LO_LOAD + ERR_LAMP
E 34 :	Winch Ind	LO_SPEED + LO_LOAD + ERR_LAMP
E 35 :	Parameter	
E 36 :	Lev not cent	EMER_STOP + ERR_LAMP
E 37 :	Inner Boom Pressure	LO_SPEED + ERR_LAMP
E 38 :	Outer Boom Pressure	LO_SPEED + ERR_LAMP
E 39 :	Cover 1 Error	ERR_LAMP
E 40 :	Cover 2 Error	ERR_LAMP
E 41 :	Cover 3 Error	ERR_LAMP
E 42 :	Cover 4 Error	ERR_LAMP
E 43 :	ADS Valve Error	ERR_LAMP
E 44 :	ADS P1 Error	ERR_LAMP
E 45 :	ADS P2 Error	ERR_LAMP
E 46 :	MSC-output	ERR_LAMP
E 47 :	DMP2-output	ERR_LAMP
E 48 :	Not run	EMER_STOP + ERR_LAMP

E 49 :	Service!	
E 50 :	Unknown cover in system	ERR_LAMP
E 51 :	CAN buffer overrun	ERR_LAMP
E 52 :	Real Time Lost	
E 53 :	PLC Program Lost	ERR_LAMP
E 54 :	Remote battery empty	ERR_LAMP
E 55 :	Remote Contol Unit	ERR_LAMP
E 56 :	Radio Receiver Error	ERR_LAMP
E 57 :	Remote Output Unit	ERR_LAMP
E 58 :	Remote Output Open	ERR_LAMP
E 59 :	Remote Output Shorted	ERR_LAMP
E 60 :	PLC Program Error	ERR_LAMP
E 61 :	PLC Error 1	ERR_LAMP
E 62 :	PLC Error 2	ERR_LAMP
E 63 :	PLC Error 3	ERR_LAMP
E 64 :	PLC Error 4	ERR_LAMP
E 65 :	Relay Box Error	ERR_LAMP
E 66 :	Lever supervision	
E 67 :	Mux Box Error	ERR_LAMP
E 68 :	Remote Control Missing	ERR_LAMP
E 69 :	P6:3 conflict	ERR_LAMP
E 70 :	IB rod press (ch53/P5:10) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 71 :	OB rod press (ch54/P5:11) OOR	LO_SPEED + LO_LOAD + ERR_LAMP
E 72 :	Inner Boom Angle error	LO_SPEED + ERR_LAMP
E 73 :	Outer Boom Angle error	LO_SPEED + ERR_LAMP
E 74 :	Slew Angle error	LO_SPEED + ERR_LAMP
E 75 :	Slew sector 4	LO_SPEED + LO_LOAD + ERR_LAMP
E 76 :	Slew sector 5	LO_SPEED + LO_LOAD + ERR_LAMP
E 77 :	Slew sector 6	LO_SPEED + LO_LOAD + ERR_LAMP
E 78 :	The support legs are not set	ERR_LAMP
E 79 :		
E 80 :		
E 81 :		
E 82 :		
E 83 :		
E 84 :		
E 85 :		
E 86 :		
E 87 :		
E 88 :		
E 89 :		

SPACE 5000

E 0 :	Low Power	EMER_STOP
E 1 :	Internal Error (Int)	
E 2 :	No I/O-voltage	EMER_STOP + ERR_BLINK
E 3 :	No Dump-voltage	EMER_STOP
E 4 :		
E 5 :	Parameter error	LO_SPEED + ERR_BLINK
E 6 :	Internal Error (Time)	
E 7 :	No Relay box supply voltage	EMER_STOP + ERR_BLINK
E 8 :	System type lost	ERR_BLINK
E 9 :	Internal Error (CBuf)	
E 10 :	Dump Output Error	EMER_STOP + PSBI_DUMP + ERR_BLINK
E 11 :	One jib sensor unconnected	LO_SPEED + ERR_BLINK
E 12 :	Both jib and winch connected	LO_SPEED + LO_LOAD + ERR_BLINK
E 13 :	Winch indicator error	LO_SPEED + LO_LOAD + ERR_BLINK
E 14 :	Slewing sector error	LO_SPEED + LO_LOAD + ERR_BLINK
E 15 :	Inner Boom Pressure error	ASC_SPEED + ERR_BLINK
E 16 :	Jib Boom Pressure error	LO_SPEED + ERR_BLINK
E 17 :		
E 18 :	Internal Error (Log)	ERR_BLINK
E 19 :	Micro-mode selector error	LO_SPEED + LO_LOAD + ERR_BLINK
E 20 :	System not running	ERR_BLINK
E 21 :	No Box supply voltage	EMER_STOP + ERR_BLINK
E 22 :	No Outer Boom Tilt Indicator	LO_SPEED + ERR_BLINK
E 23 :	No Inner Boom Tilt Indicator	LO_SPEED + ERR_BLINK
E 24 :	Outer Boom Pressure error	LO_SPEED + ERR_BLINK
E 25 :	Lever sensor 8 (A1) out of range	LO_LOAD + ERR_BLINK
E 26 :	Lever sensor 7 (A2) out of range,	LO_LOAD + ERR_BLINK
E 27 :	Lever sensor 4 (A3) out of range,	LO_LOAD + ERR_BLINK
E 28 :	Lever sensor 5 (A4) out of range	LO_LOAD + ERR_BLINK
E 29 :	Lever sensor 6 (A5) out of range	LO_LOAD + ERR_BLINK
E 30 :	Lever sensor 1 (A6) out of range	LO_LOAD + ERR_BLINK
E 31 :	Lever sensor 2 (A7) out of range	LO_LOAD + ERR_BLINK
E 32 :	Lever sensor 3 (A8) out of range	LO_LOAD + ERR_BLINK
E 33 :	Outer boom press (B1) out of range	LO_SPEED + STOP_OUT + ERR_BLINK
E 34 :	Outer boom tilt (B2) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 35 :	Inner boom angle (B3) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 36 :	Jib in pressure (B4) out of range	LO_SPEED + ERR_BLINK
E 37 :	Jib out pressure (B5) out of range	LO_SPEED + ERR_BLINK
E 38 :	Jib tilt (B6) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 39 :	Winch sensors (B7) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 40 :	Micro-mode input (B8) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 41 :	Relay-box volt out (C1) out of range	LO_SPEED + ERR_BLINK
E 42 :	DUMP voltage in (C2) out of range	LO_SPEED + ERR_BLINK
E 43 :	DUMP-voltage out (C3) out of range	ERR_BLINK
E 44 :	IO-voltage in (C4) out of range	LO_SPEED + ERR_BLINK
E 45 :	Conn box volt out (C5) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 46 :	Slew angle sens (C6) out of range	LO_SPEED + LO_LOAD + ERR_BLINK
E 47 :	Temp sensor (C7) out of range	LO_SPEED + ERR_BLINK
E 48 :	Inner boom press (C8) out of range	ASC_SPEED + STOP_OUT + ERR_BLINK

E 49 :	Inner Boom Angle error	LO_SPEED + ERR_BLINK
E 50 :	No Inner Boom Pressure Sensor	ASC_SPEED + ERR_BLINK
E 51 :	No Outer Boom Pressure Sensor	LO_SPEED + ERR_BLINK
E 52 :	Lever not centered at startup	ERR_BLINK
E 53 :	Remote control Unit Error	ERR_BLINK
E 54 :	Power Supply Box Error	ERR_BLINK
E 55 :	Radio Receiver Error	ERR_BLINK
E 56 :	DA-module error	ERR_BLINK
E 57 :	Support legs not set	SUPP_LOAD+ERR_BLINK
E 58 :	Multiplexer 1 error	LO_SPEED + ERR_BLINK
E 59 :	Multiplexer 2 error	LO_SPEED + ERR_BLINK
E 60 :	Multiplexer 3 error	LO_SPEED + ERR_BLINK
E 61 :	Micro ON/OFF-switch error	LO_LOAD + LO_SPEED + ERR_BLINK
E 62 :	A/D-converter 1 error	LO_LOAD + LO_SPEED + ERR_BLINK
E 63 :	A/D-converter 2 error	LO_LOAD + LO_SPEED + ERR_BLINK
E 64 :	A/D-converter 3 error	LO_LOAD + LO_SPEED + ERR_BLINK
E 65 :	Real Time Lost	
E 66 :	Service Interval	SERVICE_LAMP
E 67 :	Outer Boom Angle error	LO_SPEED + ERR_BLINK
E 68 :		
E 69 :		
E 70 :		
E 71 :	PLC Program Lost	ERR_BLINK
E 72 :	PLC Program Error	ERR_BLINK
E 73 :	PLC Error 1	ERR_BLINK
E 74 :	PLC Error 2	ERR_BLINK
E 75 :	PLC Error 3	ERR_BLINK
E 76 :	PLC Error 4	ERR_BLINK
E 77 :	Remote battery empty	ERR_BLINK
E 78 :	CombiDrive Error	ERR_BLINK
E 79 :		
E 80 :	Analog angle sensor 1 error	LO_SPEED + LO_LOAD + ERR_BLINK
E 81 :	Analog angle sensor 2 error	LO_SPEED + LO_LOAD + ERR_BLINK
E 82 :	Analog angle sensor 3 error	LO_SPEED + LO_LOAD + ERR_BLINK
E 83 :	Analog angle sensor 4 error	LO_SPEED + LO_LOAD + ERR_BLINK
E 84 :	Lever supervision	
E 85 :		
E 86 :		
E 87 :		
E 88 :		
E 89 :		

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