

Overview

The fault codes are listed in alphabetical order:

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INIT test S-BLT CON

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Power converter cannot work (connections, voltages).	X	X	X	X	X	X	X	X								
Power part test cannot be carried out; conditions for testing not fulfilled (in most cases wrong supply voltage). Press does not start running.	X	X	X	X					X	X	X	X				
–	X	X			X	X			X	X			X	X		
Oversvoltage in DC 250V / 540V intermediate circuit or voltage higher than DC 48V.	X		X		X		X		X		X		X		X	
Wrong code combination of main motor, KVT and TTK.	X	X	X	X	X	X	X	X								
Armature circuit interruption; no current flow.	X	X	X	X					X	X	X	X				
Short circuit of an armature cable.	X	X			X	X			X	X			X	X		
Ground fault of an armature cable.	X		X		X		X		X		X		X		X	
Wrong main motor.	X	X	X	X	X	X	X	X								
Motor temperature > 155°C or cable of temperature sensor interrupted.	X	X	X	X					X	X	X	X				
Cable connection to rotor position encoder interrupted.	X	X			X	X			X	X			X	X		
Motor code not available or invalid.	X		X		X		X		X		X		X		X	
Voltage error DC 48V. Without the error bit EFFF, this means undervoltage.	X	X	X	X	X	X	X	X								
Voltage error in the DC 250V / 540V intermediate circuit. Without the error bit EFFF, this means undervoltage.	X	X	X	X					X	X	X	X				
–	X	X			X	X			X	X			X	X		
–	X		X		X		X		X		X		X		X	

S-FILESYSTEM

This fault code indicates a software-related fault.
Contact the Heidelberg hot line and let them know
the error code.

INIT test S-KVT

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-																
-																
Asymmetrical voltage of the capacitors on the heat sink unit KVT.																
Coding of heat sink unit KVT invalid.																
KVT not plugged in.																
Wrong version of heat sink unit KVT.																
Heat sink unit KVT defective.																
Interface between TTK and KVT defective.																
-																
-																
-																
-																
TTK not plugged in.																
-																
Thyristor starting circuit defective; incorrect timing.																
The drivers are controlled with undervoltage.																

INIT test S-ZSK

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-																
-																
-																
Loop test: ZSK-X15 – EVM2-X13 – EVM2-X4 – ZSK-X16.																
Loop test: ZSK-X13 – EVM1-X1 – EVM1-X2 – ZSK-X14.																
-																
-																
-																
DRAM on ZSK defective.																
NVRAM on ZSK defective.																
Serial interface on ZSK defective.																
Interrupt controller of ZSK defective.																
Interrupt controller of computer module defective.																
Timer on ZSK defective.																
Timer of computer module on ZSK defective.																
Input/output ICs on the ZSK defective.																
Port error on ZSK.																

INIT test S-ZSKA 1 M1 ... S-ZSKA 1 M5

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-																
Brushless drive-IC (BLA-IC) on HAK defective.																
No booting. Fault in data transmission from control section of ZSK to drive section of ZSK.																
Tacho-IC on HAK defective.																
-																
-																
-																
RAM on ZSK defective.																
-																
-																
-																
Motor not compatible with power part.																
Code of power part could not be determined.																
Motor code could not be determined.																
Motor or power part on HAK defective.																

Overview

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A-Errorhandler

This code indicates the workload of the system.

FFFFE corresponds to a workload of 40...80%.

FFFFD corresponds to a workload of more than 80%.

A-File

This fault code indicates a software-related fault. Notify the Heidelberg Hotline and state the fault code.

A-TIMER

This fault code indicates a software-related fault.
Notify the Heidelberg Hotline and state the fault code.

DYN test S-BLT_CON

	1st position				2nd position				3rd position				4th position			
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
The drive section of the ZSK sends general fault message signal. Machine enters STOP state.	X	X	X	X					X	X	X	X				
-	X	X		X	X	X			X	X			X	X		
-	X		X		X	X	X		X		X		X	X	X	
-	X	X	X	X	X	X	X	X	X							
-	X	X	X	X					X	X	X	X				
Overvoltage in DC 250V / 540V intermediate circuit or voltage higher than DC 48V.	X	X	X	X	X	X	X		X		X		X	X	X	
-	X	X	X	X	X	X	X	X								
Excessive motor temperature.	X	X	X	X					X	X	X	X				
Rotor position encoder defective (identical signals from all sensor lines, wrong logic).	X	X			X	X			X	X			X	X		
Invalid motor code.	X		X		X		X		X		X		X	X	X	
Voltage error DC 48V. Without the error bit FEFF, this means undervoltage.	X	X	X	X	X	X	X	X								
Voltage error in the DC 250V / 540V intermediate circuit. Without the error bit FEFF, this means undervoltage.	X	X	X	X					X	X	X	X				
-	X	X			X	X			X	X			X	X		
	X		X		X		X		X		X		X	X	X	

S-CLI UNSYM

This fault code indicates a software-related fault.
Notify the Heidelberg Hotline and state the fault code.

S-Errorhandler

This code indicates the workload of the system.

FFFFE corresponds to a workload of 40...80%.

FFFFD corresponds to a workload of more than 80%.

DYN test S-EWK 1 ... S-EWK 4

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
D	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-																
-																
Loop test: EWK-X13 – EVM2-X3 – EVM2-X4 – EWK-X14.																
Loop test: EWK-X11 – EVM1-X1 – EVM1-X2 – EWK-X12.																
-																
-																
-																
-																
Servo-drive section of ZSK detects fault in main computer section of ZSK.																
Servo-drive section of ZSK defective (servo-drives cannot be controlled).																
Drive section of ZSK detects fault in main computer section of ZSK.																
Drive section of ZSK defective (auxiliary drives cannot be controlled).																

DYN test S-EWKE 1 ... S-EWKE 4

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X		X	X	X		X	X	X		X	X	X	
2	X	X		X	X	X		X	X	X		X	X	X		X
3	X	X			X	X			X	X			X	X		
4	X		X	X	X		X	X	X		X	X	X		X	X
5	X			X	X		X		X		X		X		X	
6	X				X			X	X			X	X			X
7	X								X				X			
8		X	X	X		X	X	X		X	X	X		X	X	X
9		X	X	X		X	X	X		X	X	X		X	X	X
A		X		X		X		X		X		X		X		X
B		X				X				X				X		
C			X	X			X	X			X	X			X	X
D				X				X				X				X
E								X								X
F																
-																
-																
DC 33V - voltage error.																
Clock error.																
-																
DC 24V – voltage error.																
DC –15V – voltage error.																
DC +15V - voltage error.																
-																
-																
A/D converter does not work correctly.																
Reference voltage absent or wrong.																

DYN test S-EWKE 1 M 1 ... S-EWKE 4 M 8

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X		X	X	X		X	X	X		X	X	X	
2	X	X		X	X	X		X	X	X		X	X	X		X
3	X	X			X	X			X	X			X	X		
4	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X		X		X	X	X		X	X	X		X	X	X	
6	X			X	X			X	X			X	X			X
7	X				X				X				X			
8		X	X	X		X	X	X		X	X	X		X	X	X
9		X	X			X	X			X	X			X	X	
A		X		X		X		X		X		X		X		X
B		X				X				X				X		
C			X	X		X	X	X		X	X	X		X	X	X
D			X			X				X				X		
E				X				X				X				X
F																
	-	-	-	-	-	-	-	Excessive temperature of transistor bridge (4 transistors).	-	-	-	No signal from washing cloth sensor (washing cloth supply roll or motor blocked).	-	-	-	Signals from washing cloth sensor while motor is not controlled (washing cloth is drawn in).
	-	-	-	-	-	-	-		-	-	-		-	-	-	
	-	-	-	-	-	-	-	Motor with precision potentiometer blocked mechanically.	-	-	-		-	-	-	
	-	-	-	-	-	-	-		-	-	-		-	-	-	
	-	-	-	-	-	-	-	Motor blocked mechanically, positioning cannot be completed.	-	-	-		-	-	-	

S-INFO 80

This fault code indicates a software-related fault.
Notify the Heidelberg Hotline and state the fault code.

DYN test S-MOT (main motor)

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
2	X	X		X	X		X	X	X	X		X	X	X		X
3	X	X			X				X	X			X	X		
4	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X		X		X		X	X	X	X	X	X	X	X	X	X
6	X			X	X		X	X	X	X	X	X	X	X	X	X
7	X				X			X	X	X	X	X	X	X	X	X
8		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9		X	X		X	X	X	X	X	X	X	X	X	X	X	X
A		X		X	X	X	X	X	X	X	X	X	X	X	X	X
B			X		X				X	X			X	X		
C			X	X	X	X	X	X	X	X	X	X	X	X	X	X
D			X		X				X	X			X	X		
E				X				X								X
F																
-																
-																
Motor temperature > 155°C (warning).																
During the brake test the press turns > 4 degrees.																
Drive section of the ZSK detects that press is sluggish.																
Wrong ratio between motor rpm and press rpm (e.g. belt slipping).																
Induced motor voltage too high during brake test.																
ZSK detects, via IDS, that the press is blocked.																
Brake test current or test torque was not achieved during brake test.																
Press rotates during brake test (insufficient braking effect).																
-																
Induced motor voltage exceeds the permissible range.																
IDS detected wrong direction of rotation.																

S-RECALL

This fault code indicates a software-related fault. Notify the Heidelberg Hotline and state the fault code.

S-RESOURCE

This fault code indicates a software-related fault.
An emergency stop is triggered. Notify the
Heidelberg Hotline and state the fault code.

DYN test S-ZSKA_DRV

	1st position				2nd position				3rd position				4th position				
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1	X	X	X		X	X	X		X	X	X		X	X	X		
2	X	X		X	X	X		X	X	X		X	X	X		X	
3	X	X			X	X			X	X			X	X			
4	X		X	X	X		X	X	X		X	X	X		X	X	
5	X		X		X		X		X		X		X		X		
6	X			X	X			X	X			X	X			X	
7	X				X				X				X				
8		X	X	X		X	X	X		X	X	X		X	X	X	
9		X	X			X	X			X	X			X	X		
A		X		X		X		X		X		X		X		X	
B		X				X				X				X			
C			X	X			X	X			X	X			X	X	
D			X				X				X				X		
E				X												X	
F								X									
	-	-	-	-	-	-	-	-	Drive section of the ZSK defective.								
									PWM signal for nominal current of main motor is disturbed.								
									-								
									Monitoring of STOP/emergency stop behaviour of press through software has responded (takes too long or impermissible delay).								
									Motor rpm signals, although the press is stationary (detected by rotor position sensor on main motor).	X							
									Communication between software modules via the internal RAM of the ZSK disturbed.								
									-								

S-ZSKA 1 M1 ... S-ZSKA 1 M 5

	1st position				2nd position				3rd position				4th position			
0	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	X	X	X		X	X	X		X	X	X		X	X	X	
2	X	X		X				X				X				X
3	X		X		X	X	X		X	X	X		X	X		
4	X			X		X	X		X	X	X		X	X		
5	X			X	X	X	X		X	X	X		X	X		
6	X							X				X				X
7	X							X				X				
8		X	X			X	X			X	X			X	X	
9		X	X			X	X			X	X			X	X	
A		X		X		X		X		X		X		X		X
B		X				X				X				X		
C			X	X		X	X			X	X			X	X	
D				X		X				X				X		
E				X			X				X				X	
F																
-																
-																
-																
-																
No tacho signal (only motor of dampening ductor, ink fountain roller, varnishing roller, suction feedboard).																
-																
-																
-																
Motor blocked (brushless pile motors only).																
Power part detects wrong operating state (brushless pile motors only).																
Motor too hot or motor plug not inserted (pile motors only, except for 50W pile motor) or motor overcurrent (suction drum motor only).																
Speed too high (pile motors only) or zero-speed control detects rotating motor, or wrong torque while motor turns (only motor of dampening ductor, varnishing roller).																
Motor blocked (three-phase pile motor only) or motor plug not inserted (not applicable to 500W brushless pile motor and motor of perfector).																
Wrong direction of rotation of motor (pile motors only).																
Zero-speed control recognizes via tacho that motor turns (pile motors only).																