

<b>Error ID</b>	<b>Limits</b>	<b>Description</b>
710		Hand-spin with electromagnetic released brake - main shaft rotates backwards
800	170 V	Line voltage below limit
801	265 V	Line voltage above limit
804	275 V	Line voltage much too high
810	5.10 V	VCC below limit
811	5.35 V	VCC above limit
820	5.00 V	Keyboard/display voltage below limit
821	5.35 V	Keyboard/display voltage above limit
830	4.50 V	External voltage (pedal) below limit, see keyboard module
831		External voltage (pedal) above limit, see keyboard module
900		Power fail detected
9FF		ERROR_SELFTEST
e01		ASA: Status of an activated order has changed due to network manager or shop management software activities.

## ERROR CODES

<b>E-Code</b>	<b>Description of Error Code &amp; Solution</b>	<b>6-Digit Code</b>
6	<b>User calibration failed</b> 1. Calibration tool not attached during factory calibration; 2. Check the V-belt tension; 3. Check the motor	None
10	<b>SAPE arm removed from the home position during wheel spin. During rotation detection an offset value &gt; 0 mm was detected &gt; Display clears after several seconds.</b> 1. Bring SAPE to its home position 2. Re-spin the wheel 3. If the error appears again, calibrate the SAPE (offset) (Service Code 80)	None
11	<b>During power up procedure, the SAPE arm was not at its home position.</b> 1. Bring SAPE to its home position 2. Re-start the unit 3. If the error appears again, calibrate the SAPE (offset)(ServiceCode 80)	None
<b>NOTE: THE USER CAN CONTINUE BY ENTERING DATA MANUALLY UNTIL SERVICE ARRIVES. EXIT THE ERROR CODE BY PRESSING STOP BUTTON.</b>		
12	<b>A wheel with an entered diameter, smaller than the HWM rim diameter limit, was balanced in HWM mode.</b> 1. Check the diameter entered and calibrate the SAPE (diameter) if required.	None

<b>E-Code</b>	<b>Description of Error Code &amp; Solution</b>	<b>6-Digit Code</b>
13	<p><b>During power up procedure, the SAPE arm was not at its home position.</b></p> <ol style="list-style-type: none"> <li>1. Bring SAPE to its home position</li> <li>2. Re-start the unit</li> <li>3. If the error appears again, calibrate the SAPE(diameter) (Service Code 80 &amp; 81)</li> </ol>	None
<p><b>NOTE: UNTIL SERVICE WILL COME, END USER CAN FOLLOW-UP WORKING ENTERING DATA MANUALLY EXIT THE ERROR CODE BY PRESSING STOP BUTTON.</b></p>		
16	<p><b>User calibration failed</b></p> <p>Calibration weight attached erroneously to the flange</p>	None
22	<p><b>Speed Up timeout It takes too long to reach the required wheel speed</b></p> <ol style="list-style-type: none"> <li>1. Check if the shaft rotates lightly: correct bearings, brake adjustments, etc.</li> <li>2. Check the signals from the opto encoder.</li> <li>3. Check the belt tension.</li> <li>4. Check the signals and power to and from the motor.</li> </ol>	492202
23	<p><b>Speed not reached</b></p> <ol style="list-style-type: none"> <li>1. Check if the shaft rotates lightly: correct bearings, brake adjustments, etc.</li> <li>2. Check the signals from the opto encoder.</li> <li>3. Check the belt tension.</li> <li>4. Check the signals and power to and from the motor.</li> </ol>	492203
24	<p><b>Speed low</b></p> <ol style="list-style-type: none"> <li>1. Check if the shaft rotates lightly: correct bearings, brake adjustments, etc.</li> <li>2. Check the signals from the opto encoder.</li> <li>3. Check the belt tension.</li> <li>4. Check the signals and power to and from the motor.</li> </ol>	492204
25	<p><b>Shaft rotation in wrong direction</b></p> <ol style="list-style-type: none"> <li>1. Hand spin: turn shaft in correct direction. Motor spin: connect motor correctly.</li> <li>2. Check opto-encoder signals and connections.</li> </ol>	492205
26	<p><b>No Acceleration</b></p> <ol style="list-style-type: none"> <li>1. Check motor, belt.</li> <li>2. Check opto-encoder signals and connections.</li> </ol>	492206
27	<p><b>Slip detected</b></p> <ol style="list-style-type: none"> <li>1. Tighten quick nut.</li> <li>2. Check motor, belt.</li> <li>3. Check opto-encoder signals and connections.</li> </ol>	492207
28	<p><b>Speed limit not reached</b></p> <ol style="list-style-type: none"> <li>1. Check motor, belt.</li> <li>2. Check opto-encoder signals and connections.</li> </ol>	492208
29	<p><b>Start doesn't perform</b></p> <ol style="list-style-type: none"> <li>1. Start button pressed white open wheel guard;</li> <li>2. Check the micro switch regulation</li> </ol>	None
50	<p><b>Factory Calibration not completed</b></p> <p>Perform Factory calibration, Service Code 83</p>	622510

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51	<b>User Calibration failed</b> 1. Retry User Calibration 2. Check if vibratory system is mounted correctly, if no external vibrations are relayed, etc. 3. Check transducers 4. Check opto-encoder signals	622511
52	<b>User Calibration on opposite side to factory calibration</b> 1. Mount User Calibration Weight on the left hand side of flange. 2. Perform Factory Calibration, Service Code 83	622512
82	<b>Self test disturbed</b> 1. Don't touch the balancer during switch on; 2. Check the temperature sensor	None