

# Trouble Shooting

- ◎ During the operation, an error number shows up at the Display Window on the Operation Panel if something is wrong. Check the below List and take the necessary actions.  
Call your dealer or Sankosha if the normal operation does not resume.



**WARNING**

**It is extremely dangerous in Control Box.**

Do not touch anywhere unless otherwise specified.

## Information

- \* Please see the “Sensor Diagram” for the location of each cylinder sensor or button.
- \* You can make sure of cylinder sensor or button through “Input Test 1” in Service Menu. (Page 24)



**CAUTION**

If any of [EEE], [EE1], [EE2], [EE3], [EE4], or [EE5] shows up, turn the power OFF and turn the power ON again **more than 5 seconds later**.

Call your dealer or Sankosha if the normal operation does not resume.

Error No.	1. Error Item
	2. Error Description
	3. Check Point
E1	1. Emergency Stop
	2. Emergency Stop Button is being pressed.
	3. (1) Emergency Stop Button is not released. After making sure of safety, release the lock by turning the button clockwise (to the “→” direction). Press Reset Button. (2) Wiring may be the cause if Error displays even after releasing it. Check Button itself or short circuit of wire.
E2	1. Safety Bar Left
	2. The switch (SB05) of Safety Bar Left is being pressed.
	3. (1) Safety Bar Left is being pressed. After making sure of safety, press Rest Button. Please also make sure that the Bar improperly catches on something. (2) Switch (SB05) may be the cause if Error displays even after the Safety Bar is released. Check the Bar itself or short circuit of wire.
E3	1. Safety Bar Right
	2. The switch (SB06) of Safety Bar Right is being pressed.
	3. (1) Safety Bar Right is being pressed. After making sure of safety, press Rest Button. Please also make sure that the Bar improperly catches on something. (2) Switch (SB05) may be the cause if Error displays even after the Safety Bar is released. Check the Bar itself or short circuit of wire.
E11	1. Start Button Right Error
	2. Start Button Right is being pressed over 15 seconds.
	3. (1) Check if the Button is being pressed. (2) Check the Button itself or short circuit of wire.

Error No.	<p>1. Error Item</p> <p>2. Error Description</p> <p>3. Check Point</p>
E12	<p>1. Start Button Left Error</p> <p>2. Start Button Left is being pressed over 15 seconds.</p> <p>3. (1) Check if the Button is being pressed. (2) Check the Button itself or short circuit of wire.</p>
E13	<p>1. Reset Button Error</p> <p>2. Start Button Left is being pressed over 15 seconds.</p> <p>3. (1) Check if the Button is being pressed. (2) Check the Button itself or short circuit of wire.</p>
E14	<p>1. Vacuum Pedal Error</p> <p>2. Vacuum Pedal is being pressed when the power is on and the Reset Button is pressed.</p> <p>3. (1) Check if the Pedal is being pressed. (2) Check the Pedal itself or short circuit of wire.</p>
E15	<p>1. Upper Press Open Over Time</p> <p>2. End sensor (SQ08) of upper press head arm cylinder is not off even though it takes over 3 seconds after press was done.</p> <p>3. (1) Something is wrong with the sensor if red light turns on even though the upper press arm is open. Check the sensor itself or short circuit of wire. (2) Lower air pressure or solenoid valve may be the cause when the upper press arm closes. Make sure that the air pressure is set at standard level (0.6MPa). Please see "Provide Air" (page 14) for further detail. Please also check solenoid valve (No. 4).</p>
E16	<p>1. Upper Press Arm End Sensor Error</p> <p>2-1. End sensor (SQ08) is on when the power is on.</p> <p>2-2. End sensor (SQ08) is not on even though it takes over 3 seconds after upper press arm starts to go down.</p> <p>3. 2-1. Make sure that the air pressure is set at standard level (0.6MPa). Please see "Provide Air" (page 14) for further detail. Please also check solenoid valve (No. 4)</p> <p>2-2. Check cylinder sensor. Start "Input Test 1" in Service Menu. (Page 24)</p> <p>① The sensor is at the wrong position if the red light is off with the Display Window showing "S8" when you lay a magnet to the sensor. Loosen the band and move and fix the sensor in the middle of the range where the red light turns on.</p> <p>② The sensor itself may malfunction if the red light is off with the Display Window NOT showing "S8" when you lay a magnet to the sensor. Check the sensor itself or short circuit of wire.</p>
E17	<p>1. Upper Press Arm Speed Error</p> <p>2.</p> <p>3.</p> <p>4. End sensor (SQ08) activates within 0.30 seconds after upper press arm goes down.</p> <p>3. (1) Make sure that the air pressure is set at standard level (0.6MPa). Please see "Provide Air" (page 14) for further detail. (2) Slow down the speed by turning the speed controller at the rod side of the cylinder clockwise. Speed controller may malfunction if the speed does not change. Check and change the speed controller.</p>

Error No.	<b>1. Error Item</b> <b>2. Error Description</b> <b>3. Check Point</b>
<b>E21</b>	1. Upper Press Arm Speed Alarm <b>✖Error No. shows up but operation can be kept going.</b> 2. End sensor (SQ08) activates within 0.50 seconds after upper press arm goes down 3. (1) Make sure that the air pressure is set at standard level (0.6MPa). Please see “Provide Air” (page 14) for further detail. (2) Slow down the speed by turning the speed controller at the rod side of the cylinder clockwise. Speed controller may malfunction if the speed does not change. Check and change the speed controller.
<b>E98</b>	1. Display board external input error From software version 1.09 onward 2. Input of the display board failed to work properly. 3. (1) Confirm whether or not the entry connector doesn't have a malfunction by the display board. (2) Confirm whether or not there is not garbage on the display board. Clean a board by air blow-dry and so on. (3) It is necessary to exchange a display substrate when not improved even if it does (1),(2).
<b>E99</b>	1. 24V Error 2. Either safety bar operated in an instant in the vibration and so on. 3. The error will be released when you press the reset button. When occurring many times, adjust a speed controller at the part where the impact is big.

**\* About E21**

Error No. shows up but operation can be kept going. Error is lift when the arm returns to the original position. Error can be also released by pressing the Reset Button. However if you keep operating the machine, the error No. turns to “E17” and the machine stops. Please release the error before “E17” shows up.