

# Trouble Shooting

- ⊙ During the operation, an error number shows up at the Display Window on the Operation Panel if something is wrong. Check below List, and take the necessary action.  
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.

## 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.

## Information

- Please see the “Sensor Diagram” on the last page for the location of each cylinder sensor or button.
- You can make sure of the cylinder sensor or button through “Input Test 1” in Service Menu. (Page 27)

Error number	(1) Error description
	(2) Error detail
	(3) Check contents
E1	1. Emergency stop button
	2. Emergency stop button is pushed.
	3. (1) Turn Emergency stop button clockwise to release lock and the display(— —1) will appear. Push reset button to return to normal condition. (2) If error is displayed although emergency stop button lock is released, this is button problem. Check the emergency button itself and it's wiring.
E2	1. Left safety bar
	2. Switch (XE02) of left safety bar is pushed.
	3. (1) When pushing the safety bar by hand if the bar is released the “error “ mark will disappear and the display(— —2) will appear. Check that the safety bar is not caught anywhere. (2) If error (E2) is displayed and the safety bar is not being pushed there is a problem with the safety bar switch or wiring.
E3	1. Right safety bar
	2. Switch (XE03) of right safety bar is pushed.
	3. (1) When pushing the safety bar by hand if the bar is released the “error “ mark will disappear and the display(— —3) will appear. Check that the safety bar is not caught anywhere. (2) If error (E3) is displayed and the safety bar is not being pushed there is a problem with the safety bar switch or wiring.

Error number	(1) Error description
	(2) Error detail
	(3) Check contents
E11	1. Middle press close overtime error
	2. Time until middle press presses is over time set up by Vol.1.
	3. (1)When you touch magnet to sensor at the head side of cylinder, the red light of sensor ... ①does light ... it is considered wrong position of sensor. Please loosen the band of it, and find lighting zone. Please place center of lighting zone and fix it. ②doesn't light ... it is sensor problem. Check sensor is broken, or wire connection (such as looseness or disconnection). (2) Check air pressure. (Main Pressure: <b>0.6MPa</b> , reference Page 16)
E12	1. Middle press end sensor (SQ04) error
	2. Pressing middle press but sensor don't turn on. (Abnormalities of close middle press end sensor or Solenoid valve (No.2))
	3. (1) It is considered wrong position of sensor. Please loosen the band of it, and find lighting zone. Please place center of lighting zone and fix it. (2) Check air pressure. (Main Pressure: <b>0.6MPa</b> , reference Page 16)
E13	1. Middle press end sensor (SQ04) open overtime error
	2. After middle press go up, if 2 seconds or more, sensor is still ON. (Abnormalities of close middle press end sensor or Solenoid valve (No.2))
	3. Check cylinder sensor. ▪ Start "Input test 1" of service menu. ▪ If a magnet is placed on the rod side of the middle press cylinders and the red sensor does not display or "S4" does not appears on the display panel. There is a problem with the cylinder sensor. Check the sensor's wiring has not become disconnected, etc. If no problem is found then the cylinder sensor itself is broken. When "S4" appears on the display panel this may be become there is a problem with the valve (No.2) Check valve and air pressure.
E14	1. Upper press end sensor (SQ08) open over time error
	2. After middle press go up, if 2 seconds or more, sensor is still ON. (Abnormalities of close upper press arm end sensor or Solenoid valve (No.3))
	3. Check cylinder sensor. ▪ Start "Input test 1" of service menu. ▪ If a magnet is placed on the rod side of the upper press cylinders and the red sensor does not display or "S8" does not appears on the display panel. There is a problem with the cylinder sensor. Check the sensor's wiring has not become disconnected, etc. If no problem is found then the cylinder sensor itself is broken. When "S8" appears on the display panel this may be become there is a problem with the valve (No.3) Check valve and air pressure.
E20	1. Left start button error
	2. Start the button remains down when the power supply is turned on.
	3. (1) If the left start button is released this error should disappear, if it does not check that nothing is holding down the button. (2) If nothing is holding the left start button down and an error is displayed it is possible that there is a problem with the actual button. Check that there is no problem with the wiring or that there are no loose connections.

Error number	(1) Error description
	(2) Error detail
	(3) Check contents
E21	1. Right start button error
	2. Right start button remains pushed when power supply is turn on.
	3. (1) If the right start button is released this error should disappear, if it does not check that nothing is holding down the button. (2) If nothing is holding the right start button down and an error is displayed it is possible that there is a problem with the actual button. Check that there is no problem with the wiring or that there are no loose connections.
E24	1. Close middle press end sensor (SQ04) error
	2. When a power supply is turn on, or at the time of middle press start middle press cylinder end sensor turns on. (Abnormalities of end sensor of middle press cylinder or middle press cylinder.)
	3. Check cylinder sensor. ▪Start “ Input test 1” of service menu. ▪ If a magnet is placed on the head side of the middle press cylinders and the red sensor does not display or "S4" does not appears on the display panel. There is a problem with the cylinder sensor. Check the sensor’s wiring has not become disconnected, etc. If no problem is found then the cylinder sensor itself is broken. When "S4" appears on the display panel this may be become there is a problem with the valve. Check valve and air pressure.
E25	1. Close upper press arm sensor (SQ06) error
	2. When a power supply is turn on, or at the time of upper press start upper press cylinder arm sensor turns on. (Abnormalities of close upper press end sensor or upper press cylinder.)
	3. Check cylinder sensor. ▪Start “ Input test 1” of service menu. ▪If a magnet is placed on the head side of the upper press cylinders and the red sensor does not display or "S6" does not appears on the display panel. There is a problem with the cylinder sensor. Check the sensor’s wiring has not become disconnected, etc. If no problem is found then the cylinder sensor itself is broken. When "S6" appears on the display panel this may be become there is a problem with the valve. Check air pressure.
E26	1. Close upper press arm end sensor (SQ08) error
	2. When a power supply is turn on, or at the time of upper press start upper press cylinder end sensor turns on. (Abnormalities of upper press cylinder or upper press cylinder end sensor.)
	3. (1)When you touch magnet to sensor at the head side of cylinder, the red light of sensor ... ①does light ... it is considered wrong position of sensor. Please loosen the band of it, and find lighting zone. Please place center of lighting zone and fix it. ②doesn’t light ... it is sensor problem. Check sensor is broken, or wire connection (such as looseness or disconnection). (2) Check air pressure. (Main Pressure: <b>0.6MPa</b> , reference Page 16)

<b>Error number</b>	<b>(1) Error description</b>
	<b>(2) Error detail</b>
	<b>(3) Check contents</b>
<b>E27</b>	1. Middle press speed error
	2. Sensor turns on within 0.60 second after middle press goes down.
	3. (1) Check the air manometer shows (0.6MPa) and adjustment air. (Refer to 16page) (2) Turn speed controller on the side of the middle press cylinder head side clockwise to adjust the speed. If not change occurs check the speed controller and if necessary replace the controller.
<b>E28</b>	1. Upper press speed error
	2. Sensor turns on within 0.70 second after upper press goes down.
	3. (1) Check the air manometer shows (0.6MPa) and adjustment air. (Refer to 16page) (2) Turn speed controller on the side of the middle press cylinder head side clockwise to adjust the speed. If not change occurs check the speed controller and if necessary replace the controller.
<b>E98</b>	1. Display board external input error From software version 2.02 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.
<b>EC1</b>	1. Warning for cover change timing.(Standard)
	2. Time to change covers. You have done 10,000 presses/finishes since last time.
	3. Press and hold Reset Button for more than 1 second. Error message will be cancelled. After cover change, be sure to reset the cover counter referring to "Cover Counter" of page 20.