

**TABLE OF ERRORS**

Classification	Item	Error display	CPU status	Timing of error detection					
				On any operation	On power up generation	On activation of RUN	On checking of grammar	On program operation	
System error	CPU abnormality	● CPU	Stop	○					
	Battery voltage dropping	● BATT		○					
	Program memory abnormality	E21	Stop		○	○	○		
	Password memory abnormality	E22	Stop		○	○	○		
	Inadequate execution preparation	E31	Stop		○	○			
Grammar error	Output number error	E02	Stop		○	○	○		
	AND STR and OR STR stack over	E03	Stop		○	○	○		
	Duplicate use of stage	E05	Stop		○	○	○		
	SET STR stack over	E06	Stop		○	○	○		
	Missing of counter condition	E07	Stop		○	○	○		
	Incomplete circuit	E09	Stop		○	○	○		
Operation error	Erroneous key operation	E01						○	
	Erroneous writing of different instruction in the second-word address	E08						○	
	No vacant address in the program memory	E11						○	
	Missing of search instruction	E99						○	
Cassette error	Unmatched comparison	E25						○	
	Improper cassette leveling	E28						○	

Error code	Description of error	Countermeasure
● CPU Abnormal	CPU watchdog timer error detection (Erroneous operation of CPU)	Retry to turn ON the power source after turning OFF once. It is all-right if the CPU is put under RUN state. If not, replace the CPU.
● BATT	Dropping of battery voltage. The life of the battery diminishing.	Replace the battery within a week.
E 2 1	The instruction for program memory is changed.	Rewrite the instruction that caused error when written under the program mode. Replace the CPU if the abnormal state is again found.
E 2 2	The memory of the password is changed.	Register the password again because it is canceled by the <input type="button" value="CLR"/> <input type="button" value="CLR"/> key operation.
E 3 1	Capacity shortage of RAM for execution.	Shorten the program.
E 0 2	The output instruction is programmed to the number to which the input module is installed.	Rewrite the program. (Check the base unit because of the possibility of erroneous switching of the switch in the base unit.)
E 0 3	Excess use of AND STR and OR STR, more than eight.	Reduce the number of the stack and make it less than seven by changing the program.
E 0 5	Duplicate use of the same stage number in the program more than twice.	Change the program so that it does not duplicate the stage number.
E 0 6	Excess use of SET STR, more than eight.	Reduce the number of the stack and make it less than seven by changing the program.
E 0 7	Shortage of conditions for the counter and shift register instructions.	Change the program prepared with count condition and reset condition.
E 0 9	Incomplete programming without the operation (coil) instruction but only with the conditional circuit.	Correct the circuit by checking the program.
E 0 1	Erroneous writing order of program (Possibility of errors on operation mode, command, and number)	Proceed with the correct operation after depressing the <input type="button" value="CLR"/> key.
E 0 8	Erroneous writing of another instruction into the second word of two word instruction	Write the second word of the instruction that is written in the previous address in the address that had an error.
E 1 1	Erroneous insertion or operation to write a two-word instruction even when the program memory is full	Expand the program memory, or shorten the program.
E 9 9	The instruction in search is not found before the END instruction.	Depress the <input type="button" value="CLR"/> key.
E 2 5	Unmatched programming of tape and CPU	Repeat to check or playback. Repeat recording if the same error is found.
E 2 8	Unmatched playback leveling (volume controlling) of cassette tape recorder	Repeat the operation by adjusting the volume controller on the cassette tape recorder.