

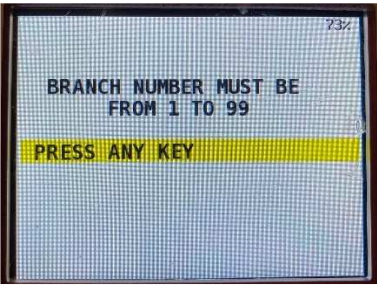
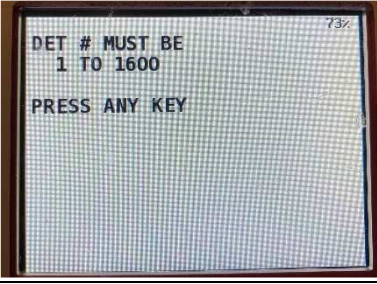
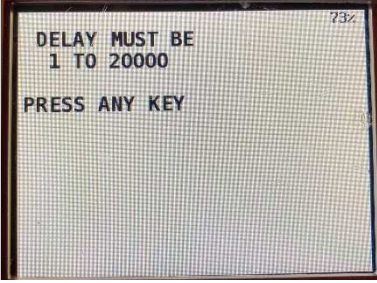
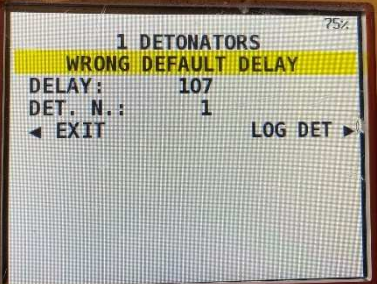


E*STAR Logger 2 The most frequent error messages

General rules

If you see problem that not happened before, take picture or better yet video of the procedure, logger display, and detonator. If the problem is not fixable and detonator is not usable, try to retrieve the detonator for later analysis. TAKE PICTURE OF THE ID TAG of the faulty detonator – the Track & Trace code will help the analysis of the potential problem.

Programming

Message	Interpretation	Solution
BATTERY LOW	The battery is below approximately 20% of capacity.	Recharge batteries. 2 hours of charging will charge Logger to 80% of battery capacity.
LOGGER FAILED TEST SELF	Return Logger to Dan-Mar Co. for analysis and repair.	Restart Logger, if problem continue, don't use Logger. Report problem.
	Branch number was not set properly.	Type in value range from 1 to 99. If this continues restart the Logger (turn off, turn on). Repeat procedure. Report problem.
	Detonator number was not set properly.	Type in value from range 1 to 1,600. If this continues restart the Logger (turn off, turn on). Repeat procedure. Report problem.
	Delays less than 1 and greater than 20,000 (in 1 ms increments) cannot be entered.	Type in value from range 1 to 20,000. If this continues restart the Logger (turn off, turn on). Repeat procedure. Report problem.
	Factory preset delay is 712 ms or 901 ms, any different delay stored within the detonator will show warning.	There is no defect with the detonator. Take picture of this screen, press arrow right "LOG DET", mark detonator s/n & Track and Trace code (take pictures) and continue in programming.



	<p>Detonator is already in the Logger memory. You have connected / tagged detonator, which was already programmed.</p>	<p>Disconnect detonator, continue with programming. Or confirm intended change and type in or save the new values.</p>
	<p>Bridge wire of the fuse head is broken. There is discontinuity in the electronic board circuit. Detonator is not functional.</p>	<p>Repeat procedure. If it continues, disconnect detonator from the circuit and do not use. Report problem (take pictures).</p>
	<p>There is no response from the detonator during the communication.</p>	<p>Repeat procedure, restart Logger, check connection adapter/connector, connector/detonator and accessible wires. Measure leakage using LM-2. When not possible to solve report problem (take pictures).</p>
	<p>Timeout message when tagging RFID tags. The tag was not in the close proximity to the antenna in the dedicated reading time. Or the RFID tag might be damaged = not readable.</p>	<p>Repeat procedure, if this continues, take picture of the detonator ID Tag (traceability & SN), switch to connect programming method and program the detonator connected to the adapter using the connector. Report problem.</p>
	<p>Detonator current consumption is higher than expected. There is a Leakage in the wires = damaged wires in the ground.</p> <p>Current consumption per one detonator with OK wires is 0.1 mA.</p>	<p>Mark the detonator position on timing plan or on the connector. Press arrow right to "CONTINUE" to program the detonator. If it is possible to program continue with programming.</p> <p>If it is not possible to program, check the connector, adapter, accessible wires. Repeat procedure, take pictures, and try to replace the detonator or use 2nd primer.</p> <p>Keep max. of 1 High leakage detonator in one branch and max. 5 detonators in the whole blast.</p>

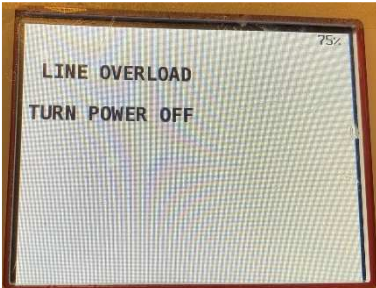
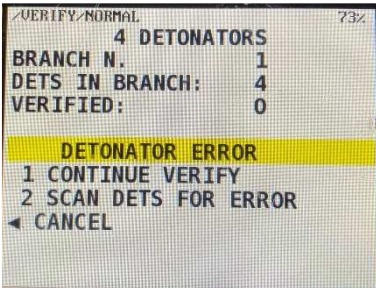
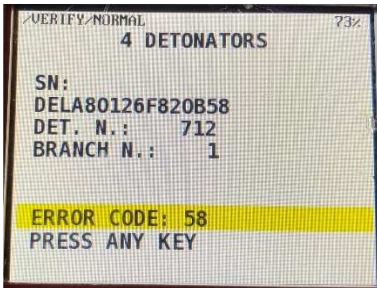


	<p>The intended information for programming to the logger has using detonator number, which is already used.</p>	<p>Press any key; the Logger will automatically switch to the next available detonator number. If the problem is more frequent, consider changing the logger programming presets.</p>
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Verification

Message	Interpretation	Solution
	<p>A detonator programmed in the Logger memory is missing on the verified branch.</p>	<p>Locate detonator in time plan and in the field, check detonator connection to Bus-line, check and possibly repair detonator itself (reattach connector, shorten the wires), and repeat verification. If problem continues, take pictures, report problem.</p>
	<p>Search for unexpected detonators was canceled by user intervention. The search will not continue and there might be still some unexpected detonators present on the Bus-line.</p>	<p>If not sure that the verification was done properly, repeat the procedure.</p>
	<p>There is an unexpected detonator connected to the verified branch. Two possible scenarios:</p> <ul style="list-style-type: none"> - Detonator is from different branch - Detonator is not programmed <p>This is possible to recognize based on the detonator details</p>	<p>Locate detonator in the branch using the SN on the ID tag with RFID, or by disconnecting and connecting to the connector. Program detonator with appropriate timing, continue, report procedure.</p> <p>Programming / changing of the detonator values is also possible without the disconnection of detonators. Use the number keys assigned to the DELAY, DET.N., BRANCH N. to change the values. Than press the ENTER to save the detonator to Logger memory.</p>



	<p>High current due to excessive leakage or shorted line or detonator.</p>	<p>Check wire ends (not in water), check for shorted wires, measure current (Logger or LM-2), locate high leakage source, replace bus line, report problem.</p>
	<p>Bridge wire of the fuse head is broken. There is discontinuity in the electronic board circuit. Detonator is not functional.</p>	<p>Press 2 for information about the faulty detonator. See display below:</p>  <p>Locate the detonator in the time plan, try to retrieve the detonator, report problem, take pictures.</p>

