



AutoFish System Errors



Need help? If you have questions, problems or comments please call +1 (360) 764-8850 or email office@nmt.us.

Many errors and messages are generated during normal operation of an AutoFish System. The most common errors that stop or slow fish processing are listed below with steps that will most likely correct the situation. "X" will be replaced by a number to further identify the problem. Please notify NMT if an error not listed here occurs regularly.

Marking and Tagging Errors		
These errors happen during normal operation and are intended to help with setup and adjustment of the system		
Error Message	Cause	What to do
<p><i>Fish Paroled</i></p> <p>PAR will be displayed in the imaging window.</p>	<p>The fish was released from the lower gate but did not trigger the nose sensor within 6 seconds.</p>	<ul style="list-style-type: none"> • Adjust channel width/height. • Adjust water at the three channel locations. • Adjust upper and lower gate open position. • Adjust MKIV and trapdoor height. • Check for even transition from channel to clamps. • Check for properly functioning nose sensor.
<p><i>Insufficient Fin Removal</i></p>	<p>The Verify Mark algorithm determined that less than the minimum amount of fin was removed.</p>	<ul style="list-style-type: none"> • Verify that the vision system is performing properly. • Check clipper blade and anvil for sharpness, test by clipping 3M Super 33 electrical tape. • Check for clipper alignment with clamps. • Confirm Marker X and Marker Y home positions are correct. • Verify that the fish are held securely in the clamps with a properly arched back.
<p><i>Fish Stuck at Upper Gate</i></p> <p>FUG will be displayed in the imaging window.</p>	<p>The upper gate attempted to release a fish, but the fish was not detected crossing the sensor below the upper gate. The fish is still detected above the upper gate.</p>	<ul style="list-style-type: none"> • Adjust channel width/height. • Adjust water at the three channel locations. • Adjust upper gate open position. • Verify Line VE (Volitional Entry) has been properly leveled.
<p><i>Slide to Lower Gate Timeout</i></p> <p>FLG will be displayed in the imaging window.</p>	<p>The upper gate released a fish, and the fish was detected crossing the sensor below the upper gate but did not arrive at the lower gate within the allowable time limit.</p>	<ul style="list-style-type: none"> • Adjust channel width/height. • Adjust water at the three channel locations. • Adjust upper gate open position. • Verify Line VE has been properly leveled.

MKIV Problem – Check Wire TW will be displayed in the imaging window.	The wire in the MKIV has either jammed or run out.	<ul style="list-style-type: none"> • Clear remaining wire out of wire feed tubes, cutter, and needle. • Load new wire.
No Fish Back Find Fin Failure	The Find Fin algorithm could not find a suitable edge in the expected area to begin tracing the fish's back.	<p>This is a group of Find Fin failure errors.</p> <ul style="list-style-type: none"> • Verify that the fish are held securely in the clamps with a properly arched back. • Verify that the fish does not enter the clamps under the belly lifters due to the trap door being too low or the clamp open position being too open. • Verify that the vision system is performing properly. • Verify nose sensor functioning properly. • Verify fish are of correct size for clamps. • Verify proper and even lighting along fish back with no glinting or glare spots. • Check to make sure a fish isn't stuck in the spinner shield.
Fishback Trace Error Find Fin Failure	Shape of fish back varied too much from the expected shape to identify location of fin.	
Cannot Trace Fish Back Find Fin Failure	During the Find Fin Imaging process, multiple attempts to trace the fish's back failed.	
Fin Too Tall Find Fin Failure	The fin height is taller than the maximum fin height as set in the global fish settings.	
Fin Too Short Find Fin Failure	The fin height is shorter than the minimum fin height as set in the global fish settings.	
Fin Too Wide Find Fin Failure	The fin width is larger than the maximum fin width as set in the global fish settings.	
Fin Too Skinny Find Fin Failure	The fin width is smaller than the minimum fin width as set in the global fish settings.	
Fish Too Short Find Fin Failure	The fin, which was found by the vision system, was too close to the right side of the clamp window for the blade to adequately remove the fin.	
Fish Too Long Find Fin Failure	The fin, found by the vision system, was too close to the left side of the clamp window for the blade to adequately remove it.	
Rear or Front Clamp Stalled RC or FC will be displayed in the imaging window.	Mechanical problem with the motor during the previous fish cycle. The motor stalled during the operation of the mechanism. RC will only display after 3 consecutive rear clamp stalls.	<ul style="list-style-type: none"> • Verify clamps and foam pads are installed properly. • Adjust the closed position of the clamp that is stalling so that it is more open (not closing as tightly).
Motor X Stalled	Mechanical problem with the motor during the previous fish cycle. During the mechanism's operation, the motor was prevented from reaching its intended position.	<ul style="list-style-type: none"> • Verify correct motor home position. • Verify motor cycles open and closed smoothly without interference.
Tag Failure TF will be displayed in the imaging window.	The MKIV delivered a tag, but it was not detected by the QCD (Quality Control Device) within the expected time.	<ul style="list-style-type: none"> • Verify proper tag placement. • Verify that the fish are held securely in the clamps and the trapdoor is functioning properly. • Verify QCD Threshold not set too high. • Refer to the MKIV Tag Injector Manual for specific MKIV issues/errors.
Could not find Fiducial	The vision system could not identify the chevron within the fiducial in the marker image.	Make sure the left edge of fiducial can be found and there is no water present in chevron.
Can't find Fid Left Edge	During calibration, the computer failed to find the left edge of the fiducial.	Adjust the camera slightly to the left or right to ensure that the left edge of the fiducial can be found.

Clamp Size X.XXX	Shows up in conjunction with <i>Clamp Size Incorrect</i> . Reports visible clamp window width, in inches.	Ensure clamp size agrees with software settings.
Clamp Size Incorrect	Clamp window is not expected width for clamp size.	Ensure clamp size agrees with software settings.
Trim Error – Fish: X(X,X)	An error occurred while trimming one of the ends of the fish back during imaging. May be due to water in clamps.	Reduce water in the imaging area.
Fish Moved	The fish moved too much between the Find Fin Image and the Verify Mark Image. The vision system was not able to adjust the fin area for verification.	Verify that the fish are held securely in the clamps with a properly arched back.
Stopped – Too Many Parolees	The line was stopped because there were three Parolees in a row.	See “Fish Paroled”.
Stopped – Too Many FFFs	The line was stopped because there were three Find Fin Failures in a row.	See various “Find Fin Failure” group of errors.
Stopped – Too Many VMFs	The line was stopped because there were three Verify Mark Failures in a row.	See “Insufficient Fin Removal”.
Stopped – Too Many Tag Failures	The line was stopped because there were three Tag Failures in a row.	See “Tag Failure”.
Uncal: PC Offline	The PC and the Line Controller board are no longer communicating.	Ensure PC software is still operating.
Uncal: MKIV Change	The MKIV Present setting has been changed.	MKIV setting has been changed and line needs to be calibrated.
Uncal: Motor not Homed	Motor was not homed when the line tried to move it.	Try to calibrate, then check the motor home position.
Uncal: Motor Homing Error	The Line could not get a motor re-homed between fish.	Try to calibrate, then check the motor home position.
Uncal: Nose Sensor not Ready	The Nose Sensor has not been calibrated.	Try to calibrate the line, then check nose sensor for proper function.
Uncal: MKIV Error	Running out of wire will cause this error.	Ensure MKIV has wire and functions properly.

System Errors

These errors indicate a problem with the system that needs to be addressed

Error Message	Cause	What to do
Motor X Offline	A communication breakdown has occurred between the driver interface and the line controller board. Will cause the line to go uncalibrated.	Calibrate the line. Replace motor driver or cable if persistent.
Motor X Homing Error	While running or during calibration the motor attempted to home and the homing procedure failed. Will cause the line to go uncalibrated.	Calibrate the line and ensure the motor functions properly.
Marker Cal – Fid Outside Area	The fiducial was found, but it was not within the expected area.	Contact NMT if the error persists.
Nose Sensor Cal: X	Nose sensor could not detect the correct amount of light. May indicate a bad sensor.	Ensure nose sensor and cable installed correctly and calibrate the line.
Filter Graph Failure	This is a group of Frame Grabber start up problems.	Try rebooting the computer, if the problem persists after several reboot attempts, replace the Frame Grabber.
Frame Grabber Not Found		
Cannot Init Frame Grabber		
Trying to restart Comport	Start up error.	Try to use the “Fix Comports” tool on Gen 2 computers.
Comm Error: X	Several uncommon communication errors may but are rarely associated with a processing error.	Information for NMT.
Fish ID Mismatch	Main Controller responded with imaging results, but they are not for the fish the line is running.	Information for NMT.
MKIV Offline	The MKIV is not communicating with the Line.	<ul style="list-style-type: none"> • Ensure MKIV is powered on. • Troubleshoot MKIV cables.
Calibration Timeout	Calibration started from the Main Controller, no response in 10 seconds.	Power the line off, then back on and calibrate.
System not Online	Line is not in communication with main controller.	Ensure line is powered on.
Error: Main/User Batch Restored From File	This error triggers a message box “Line X Main/User Batch Backup files on Disk are newer than the current batch data. Batch data for Line X restored from file”.	Informational only.
Comport Error: X	There is a problem with the comport on the computer, likely a hardware problem.	Try to use the “Fix Comports” tool on Gen 2 computers. Reboot the computer.
Already in Cal State	The calibration button has been pushed and while in the calibration state, the button was pushed again.	Power the line off, then back on and calibrate.
MKIV Not Ready: X	MKIV is not in a ready state.	Check whether the MKIV was left in the set-up menu.
MKIV Error	This is most commonly the result of the MKIV running out of wire.	<ul style="list-style-type: none"> • Clear remaining wire out of wire feed tubes, cutter, and needle. • Load new wire.
MKIV Timeout	The MKIV is not communicating with the Line.	<ul style="list-style-type: none"> • Ensure MKIV is powered on. • Troubleshoot MKIV cables.
Stopped: No Response from PC	The Line stopped because it is no longer communicating with the PC.	Ensure PC software is still operating.
Retrying Imaging Request: X	Line Controller had to ask twice for information.	Contact NMT with the value of “X” if error persists.
Imaging Timeout: X	Line Controller asked twice for information and did not receive it, so the line stopped.	Contact NMT with the value of “X” if error persists.

Software Errors

These errors should not be displayed unless a software correction is required

Error Message	Cause	What to do
FindFin Bounds Error: X	Fin tip is determined to be outside of the clamp region in the Find Fin Image.	Contact NMT with the value of "X" if error persists.
PixelPos Error – Fish: X (X,X)	A portion of the fin is outside the clamp region in the Verify Mark Image.	Contact NMT with the value of "X" if error persists.
Error: IP Re-entry	Serious problem in Image Processing functions.	Contact NMT if the error persists.
Unrecognized Statement X Y	Information for NMT.	Contact NMT immediately with the value of "X, Y".
Unrecognized Tablet Message: X	Information for NMT.	Contact NMT immediately with the value of "X".
Tablet Packet Count Error: X,X	Information for NMT.	Contact NMT immediately with the value of "X, X".
Unrecognized Sorter Message: X	Information for NMT.	Contact NMT immediately with the value of "X".
Sorter Packet Count Error: X,X	Information for NMT.	Contact NMT immediately with the value of "X, X".
Unknown Message 2:X	Information for NMT.	Contact NMT immediately with the value of "X".
Unknown Msg from MKIV: X	Information for NMT.	Contact NMT immediately with the value of "X".
Unrecognized Message 2: XX	Information for NMT.	Contact NMT immediately with the value of "XX".
Line Packet Count Error: XXX	Information for NMT.	Contact NMT immediately with the value of "XXX".
Unexpected Response – X	Information for NMT.	Contact NMT immediately with the value of "X".
CP Write Exception	Information for NMT.	Contact NMT immediately.
Crash in Handle Packet X	Broad error message when the main controller is trying to handle information.	Contact NMT immediately with the value of "X".
Crash in AcqComplete: X	Broad error message when the main controller is trying to process an image.	Contact NMT immediately with the value of "X".