



SECTION 12

Troubleshooting

This section lists the errors that may occur during F150 operation, along with their probable causes and remedies.

Message	Probable Cause and Countermeasure
Camera is not connected.*	Check the following: <ul style="list-style-type: none"> • Camera Cables are connected properly. • Both Cameras are connected when two Cameras are used.
Cannot measure the angle from one region.	Select a region for which binary center of gravity and axis angle has been set as the measurement method.
Communications error.*	Turn OFF the power to the F150 and restart. If the same error message appears, it may mean that the F150 is faulty. Contact your OMRON representative.
Set density so that the upper \geq the lower.	Set so that the lower limit of the density is smaller than the upper limit.
Draw at least one OR figure.	NOT mode is used to delete part of a drawn diagram. <ul style="list-style-type: none"> • Draw diagrams in OR mode.
Host link error. Change to normal mode. (see note)	After checking for the following items, either change the RS-232C mode to Host Link mode, or restart the F150: <ul style="list-style-type: none"> • The Programmable Controller is ON. • The RS-232C cable is connected properly. • The communications specifications for the Programmable Controller and the F150 are the same.
Illegal syntax in expression.	Check the following for the expression: <ul style="list-style-type: none"> • There are the same number of right and left parentheses. • There is not more than one operator in a row without a variable in between them. • There is not more than one function in a row without a variable in between them. • There is not more than one region number in a row. • There is not more than one constant in a row. • There are not too many, or too few arguments for a function.
Incorrect data format received.*	There is a mistake in the data for which transfer between the F150 and the external device was attempted. Turn OFF the power to the F150, and check for the following items before restarting the F150. <ul style="list-style-type: none"> • The RS-232C cable is connected properly. • The terminal block is wired correctly. If the same error message appears after restart, it may mean that the F150 is faulty. Contact your OMRON representative.

Message	Probable Cause and Countermeasure
Insufficient flash memory.	<p>An error has occurred in flash memory. Data cannot be saved because of insufficient available flash memory.</p> <ul style="list-style-type: none"> • Either make the region to be registered smaller, or clear unneeded regions from memory. <p>If the same error message appears after the regions have been reduced, it may mean that flash memory is faulty. Contact your OMRON representative.</p>
Insufficient work memory.	<p>No more regions can be registered because of insufficient available work memory.</p> <ul style="list-style-type: none"> • Either make the model or region to be registered smaller, or clear unneeded models or regions.
Intelligent Lighting is not selected.	<p>In SYS/Device settings, make the settings required for using an Intelligent Light Source.</p>
Programmable Controller is not in monitor mode.*	<p>Change the mode of the Programmable Controller to Monitor mode.</p>
Select midpoint between 2 regions for X and Y.	<p>If the relative angle of the 2 regions is set for the position compensation setting θ, the midpoint of the 2 regions must be set for X and Y.</p> <ul style="list-style-type: none"> • Either set midpoint of 2 regions for X and Y, or change the θ setting.
Select same region number for θ , X and Y.	<p>If position compensation region 0 or 1 is set for θ, then X and Y must be set to the same region number.</p> <ul style="list-style-type: none"> • Either set the same region number for X and Y, or change the θ setting.
Set parameters so that Output Period \geq Gate ON delay + Gate ON time.	<p>The communications specifications for the terminal block are set incorrectly.</p> <ul style="list-style-type: none"> • Make the settings so that output period \geq GATE ON delay + GATE ON time.
Setting calibration parameters is failed.	<p>The Camera magnification is outside the permitted setting range.</p> <ul style="list-style-type: none"> • Re-perform sampling so that the magnification is in the range 0.01 to 9.999.
	<p>Sampling has only been performed once.</p> <ul style="list-style-type: none"> • Perform sampling in at least 2 places.

Message	Probable Cause and Countermeasure
This region is not drawn.	<p>A region that has not been drawn is selected as a displacement direction setting.</p> <ul style="list-style-type: none"> • Either draw the region, or select a region that has been drawn.
Timeout error.*	<p>Data transfer has been interrupted due to a timeout error in communications between the F150 and an external device. Turn OFF the power to the F150, and check for the following items before restarting the F150.</p> <ul style="list-style-type: none"> • The RS-232C cable is connected properly. • The terminal block is wired correctly. • The communications specifications for the external device and the F150 are the same. <p>If the same error message appears after restart, it may mean that the F150 is faulty. Contact your OMRON representative.</p>

Note When the error messages marked with an asterisk are displayed, the ERR terminal will come ON.