

SECTION 9

Troubleshooting

This section lists the errors that may occur during F150-2 operation, along with their probable causes and remedies.

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Message	Probable Cause and Remedy
Camera is not connected.*	<ul style="list-style-type: none"> The Camera Cable is not connected properly.
Cannot measure the angle from one region.	<ul style="list-style-type: none"> Select a region for which binary center of gravity and axis angle has been set as the measurement method.
Communications error.*	<p>Turn OFF the power to the F150-2 and restart. If the same error message appears, it may mean that the F150-2 is faulty. Contact your OMRON representative.</p>
Draw at least one OR figure.	<p>NOT mode is used to delete part of a drawn diagram.</p> <ul style="list-style-type: none"> Draw diagrams in OR mode.
Host link error. Change to normal mode. (see note)	<p>After checking for the following items, either change the RS-232C mode to Host Link mode, or restart the F150-2:</p> <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 F150-2 are the same.
Illegal syntax in expression.	<p>Check the following for the expression:</p> <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.*	<p>There is a mistake in the data for which transfer between the F150-2 and the external device was attempted. Turn OFF the power to the F150-2, and check for the following items before restarting the F150-2.</p> <ul style="list-style-type: none"> The RS-232C cable is connected properly. The terminal block is wired correctly. <p>If the same error message appears after restart, it may mean that the F150-2 is faulty. Contact your OMRON representative.</p>
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>

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Message	Probable Cause and Remedy
Insufficient work memory.	No more regions can be registered because of insufficient available work memory. <ul style="list-style-type: none"> • Either make the model or region to be registered smaller, or clear unneeded models or regions.
PC is not in monitor mode.*	<ul style="list-style-type: none"> • Change the mode of the Programmable Controller to Monitor mode.
Select midpoint between 2 regions for X and Y.	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. <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.	If position compensation region 0 or 1 is set for θ , then X and Y must be set to the same region number. <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.	The communications specifications for the terminal block are set incorrectly. <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.	The Camera magnification is outside the permitted setting range. <ul style="list-style-type: none"> • Re-perform sampling so that the magnification is in the range 0.01 to 9.999.
	Sampling has only been performed once. <ul style="list-style-type: none"> • Perform sampling in at least 2 places.
This region is not drawn.	A region that has not been drawn is selected as a displacement direction setting. <ul style="list-style-type: none"> • Either draw the region, or select a region that has been drawn.
Timeout error.*	Data transfer has been interrupted due to a timeout error in communications between the F150-2 and an external device. Turn OFF the power to the F150-2, and check for the following items before restarting the F150-2. <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 F150-2 are the same. If the same error message appears after restart, it may mean that the F150-2 is faulty. Contact your OMRON representative.

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

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