
Messages Reference Guide

Version 1.1
November 28, 2016
Part No. 22100026

for FLOWare[®] Software as of version 2.9.1+

*for use with all **MAX Series & DS Series Dispensers***

prepared by GPD Global[®] Documentation Dept.



611 Hollingsworth Street
Grand Junction, CO, USA 81505
tel: +1.970.245-0408 • fax +1.970.245-9674
request@gpd-global.com • www.gpd-global.com

Copyright © 2016 GPD Global[®] • All Rights Reserved

Info & Error Messages Reference Guide

For FLOWare software ver 2.9.1+

Messages can provide running information about operations on the system or indicate when a problem arises. most messages are self-explanatory and relate to the feature being used.

NOTE - ERROR REPORTING: If it becomes necessary to call GPD Global with inquiries about an error message, you only need to tell us the code number; you do not need to record the full text of the message.

Contents

Messages for which you may need additional instructions are grouped and coded in this section as follows:

Type of Messages

- [Information Panel Messages](#) (pg 2)
- Cxx [Calibration Support Messages](#) (pg 3)
- Exx [Editor Messages](#) (pg 8)
- Hxx [Homing Messages](#) (pg 16)
- Jxx [Jog Messages](#) (pg 17)
- Mxx [Main Messages](#) (pg 19)
- Pxx [Press Messages](#) (pg 23)
- Rxx [Runtime Messages](#) (pg 24)
- Sxx [System Messages](#) (pg 29)
- Txx [Test Messages](#) (pg 32)
- Uxx [User-defined Messages](#) (pg 33)

Information Panel Messages

These messages appear on the appropriate line of the information panel on the right side of the main window. These messages provide running information about operations on the system.

Action required: Some messages may indicate future operator action.

Table 1: Information Panel Messages

No.	Description	Problem	Solution
-	Loading the Program	This message appears on the Info line while a selected program is being read from the data base and set up for a run.	The message is removed when all information needed for the program is assembled.
-	Waiting to Release Exit Board	This message appears on the Info line of a conveyor system while waiting to clear the exit station so the nest can be cleared to process the next board.	Operation continues and the message is removed when the downstream machine requests a new board.
-	Waiting for Upstream Board	This message appears on the Info line of a conveyor system while waiting to receive a board that was requested from the upstream machine.	Operation continues and the message is removed when the board appears at the enter station.
-	Pallet(s)/Feeder(s) need changing	This message appears on the Info line when a pallet or feeder is empty.	The pallet/feeder can be refilled at any time; the system will continue in operation until the next item is needed from the pallet/feeder when it will pause with a request for refill.
-	Operating in Pass-Through Mode	This message appears on the Info line of a conveyor system while in pass-through mode.	The run is ended when pass-through mode is cancelled.
-	Waiting for Exit Heating Waiting for Entry Heating	One of these messages appears on the Info line when an exit or entry station heater has not yet attained the desired temperature.	---

Calibration Support Messages

These messages may appear in a pop-up window during the calibration phase after a program is started. In some cases, they prompt for operator action; in other cases, they notify the operator of an abnormal condition.

Action required: In some cases, these messages prompt for operator action; in other cases they notify the operator of an abnormal condition.

Table 2: Calibration Support Messages

No.	Description	Problem	Solution
C01	Mount Board Click CONTINUE When Done	This message appears whenever a board is needed from the operator. It appears when MOUNT is selected from the main menu bar, or for every board on a non-conveyor system, or whenever operator intervention is required to obtain a board on a conveyor system.	Mount a board and click CONTINUE; or, click ABORT to abort the program or mount request.
C02	Purging... Click DONE to Stop	This message appears when purging without a time limit. Purge will continue until a button is clicked.	Click DONE to stop the purge and continue operations; or click ABORT to stop the purge and abort the program.
C03	Attach Ground Clip to Needle Click CONTINUE When Done	This message appears during calibration before touch down of a dispense needle on a machine with an electrical touch pad.	Attach ground clip and click CONTINUE; or click ABORT to abort the program.
C04	Remove Ground Clip from Needle Click CONTINUE When Done	This message appears during calibration after touch down of a dispense needle on a machine with an electrical touch pad.	Remove ground clip; then click CONTINUE to continue or click ABORT to abort the program.
C05	Clean the Needle Click CONTINUE to Proceed	This message appears after a dispense needle has been purged during calibration when no automatic needle cleaner is configured.	Wipe the needle clean; then click CONTINUE to continue or click ABORT to abort the program.
C06	Lock Drill Probe Up Attach Ground Clip to Drill Click CONTINUE When Done	This message appears during calibration before touch down of an etch head on a machine with an electrical touch pad.	Lock the probe up, attach ground clip, and click CONTINUE; or click ABORT to abort the program.
C07	Release Probe Lock Remove Ground Clip from Drill Click CONTINUE When Done	This message appears during calibration after touch down of an etch head on a machine with an electrical touch pad.	Release the probe, remove ground clip; then click CONTINUE, or click ABORT to abort the program.
C08	Place a Clean Chip in the Drill Pad	This message appears during calibration when a drill motor is to be calibrated, or when calibration dots are placed on the drill pad rather than on paper. It requires a fresh surface in the drill pad station to drill a new hole or a clean surface to place a dot.	Refresh or clean the chip in the drill pad and click CONTINUE; or click ABORT to abort the program.
C09	No Head Mounts for This Program	This message appears if an attempt is made to run a program for which no heads have been defined (possibly, a program converted from pick-and-place data and not updated).	The program run is canceled when ABORT is clicked. Edit the program to add head mounts and to use the desired head for each operation. Then and re-run the program.
C10	Cannot Find Selected Program <maybe Program Name>	This message appears if any error occurs when reading a program from the data base. The Program Name appears in the message if the error does not preclude knowledge of the name.	The program run is canceled when ABORT is clicked. Edit the program to correct errors, or delete the program and re-create it. Then re-run the program.

Table 2: Calibration Support Messages

No.	Description	Problem	Solution
C11	Cannot Calibrate Vision System	This message appears during calibration if the vision system cannot find the vision target. The program run is canceled when ABORT is clicked.	Replace the vision target if it has become soiled or otherwise damaged, or adjust vision parameters (lens zoom, focus, f-stop; camera gain, offset; light color/intensity). Then re-run the program.
C12	Cannot Read Fiducial Pattern <Pattern Name>	This message appears if any error occurs when reading a vision pattern from the data base.	The program run is canceled when ABORT is clicked. Edit the pattern to correct errors, or delete the pattern and re-create it. Then re-run the program.
C13	Excessive Adjustment Accept Current Position or Adjust Manually	This message appears during calibration when the material dot or the drilled hole is outside the configured window.	If the dot/hole is located correctly, click ACCEPT; if manual dot/hole location is desired, click MANUAL; otherwise, click ABORT to cancel the program and re-run the program to calibrate correctly.
C14	Adjusting Lens: Wait...	This message appears when the automatic lens requires more than ½ second to adjust. It is displayed while is adjusting and disappears when adjustment is complete.	This message is informational only; no action is required.
C15	Cannot Load Required Shape <Shape Name>	This message appears when loading a program that uses a shape not found in the shape library or when an error occurs in retrieving the shape from the library.	The program run is canceled when ABORT is clicked. Edit the program to change the shape name, or add the required shape to the shape library, or edit the shape to fix any errors. Then re-run the program.
C16	Remove Board From Exit	This message appears for a conveyor machine when Manual Mode is selected, a program is started, and there are boards in both the Nest and Exit stations.	Since Manual Mode does not dump the board in the exit station, it must be removed manually. Remove the board and click CONTINUE; or, click ABORT to abort the program.
C17	Bad Mark Test: SKIP if Bad Board ACCEPT to Process Board	This message appears on a system without active vision when a program or board specifies a bad mark operation.	Click ACCEPT to continue processing if the camera image shows the board is good; click SKIP to skip the board if the camera image shows the board is bad; click ABORT to terminate the program.
C18	Head is Unknown <head number: head name>	This message appears when a program line references a mount location containing a head name not appearing in the head table.	The program run is canceled when ABORT is clicked. Edit the program mounts to change the head. Then re-run the program.
C19	Cannot Reference Scale	This message appears when attempting to reference a precision scale if communication with the scale fails.	Click IGNORE to continue processing without scale calibration; click ABORT to abort this program run.
C20	Scale Underflow: Cannot Use Scale	This message appears when an attempting to read a precision scale if an underflow condition exists.	Click IGNORE to continue processing without scale calibration; click ABORT to abort this program run.
C21	Scale Overflow: Empty Scale to Retry	This message appears when attempting to read a precision scale if an overflow condition exists (i.e., too much material has been dispensed on the scale).	To retry the calibration, empty or replace the cup on the scale and click RETRY; click ABORT to abort this program run.

Table 2: Calibration Support Messages

No.	Description	Problem	Solution
C22	Shape Weight Out of Tolerance: Ignore calibration, Retry or Abort	This message indicates the shape's weight is out of tolerance and gives the options to ignore the calibration step, retry the calibration, or abort the process.	To retry the calibration without changing anything, click RETRY; to continue processing without scale calibration click IGNORE; click ABORT to abort this program run.
C23	TEST MESSAGE	This message is used for software development only. It should be displayed only in Beta test software.	Call GPD Global immediately if this message appears in release software.
C24	Probe Limit Failure	This message appears if a failure occurs during a surface sense and is displayed when the probe moves lower than the low probe limit. It is usually caused when attempting to sense a board that is missing, but it can also be caused by an incorrect limit.	The program run is canceled when ABORT is clicked. Restart the program with a board correctly placed, or, if needed, contact the GPD Global Service Department for help with re-teaching the lower limit (Low Z Limit) with the Precision Automation controller.
C25	Adjust Micrometer and Needle Height	This message appears to ask the operator to adjust a standoff needle.	Follow local operator instructions. Click ABORT to abort this program, CONTINUE to continue after adjustment.
C26	Cannot Communicate with Two Part Valve	This message is issued when serial communications to a two-part mixing valve fail.	The program is aborted when ABORT is clicked.
C27	Prepare to Fill Syringe	This message appears to ask the operator to insert an empty syringe in the fill station.	Click CONTINUE to fill the syringe, or click ABORT to abort this program.
C28	Reloading Mixer Valve	This message appears while the mixer valve is reloading and is informational only.	No action is required.
C29	Weight Results Value Expected Change	This message informs the operator of the results of weighing a material shot.	Click CONTINUE to continue processing.
C30	Remove Filled Syringe	This message appears after a syringe is filled to ask the operator to remove the filled syringe from the fill station.	Click CONTINUE to continue normal operation, or click ABORT to abort this program.
C31	Filling Syringe... Click CONTINUE to Stop	This message appears while a syringe is being filled when a fill time (amount) has not been specified.	Click CONTINUE when fill is satisfactory; or click ABORT to cancel further operation.
C32	Valve On Times are too large to dispense properly	This message appears when the valve on time for a two-part valve exceeds the time for a full stroke of the piston.	The program run is canceled when ABORT is clicked. Correct the program and re-run it.
C33	Weight Results: Value Expected Change <weight> <weight> <percent>	This message is never displayed. However, the message is generated during weighing and is placed in the error log if logging is specified for class "R".	No action is required.
C34	Z Touch <Z coordinate>	This message is never displayed. However, the message is generated during Z-coordinate testing and is placed in the error log if logging is specified for class "R".	No action is required.
C35	Purging... Click DONE to stop.	This message appears during an Offline Purge of a two-part valve when the purge time (amount) has not been specified.	Click DONE when purge is satisfactory; or click ABORT to cancel further operation.
C36	Replace or Clean the Needle Cleaner Pad or Brushes	This message (optionally) appears when a scale-mounted needle cleaner or a clamp-type needle cleaner has been fully used.	Clean or replace brushes or pads and click Continue; or click Abort to terminate the operation.

Table 2: Calibration Support Messages

No.	Description	Problem	Solution
C37	Vacuum Hold-down has failed	This message appears when a system has vacuum hold-down detection and no vacuum is detected when the hold-down is operated. This can be caused by a missing board.	To re-read the sensor, click Retry. To continue in spite of the lack of hold-down vacuum click Continue. To cancel the program click Abort.
C38	Touch Probe failure	This message appears when a system has touch probe failure detection and failure of the probe is detected.	Click Abort to cancel the program, clean or repair the touch probe, and re-run the program.
C39	Adjust Micrometer to Avoid Needle Damage	This message appears prior to calibrating a stand-off needle.	Adjust the micrometer to a withdrawn (flat) position and click Continue; or click Abort to abort the program.
C40	Scale Adjustment Out of Spec Weight Retries Exhausted	This message appears when the maximum number of repeated weight retries are all out of the specified range.	Click Abort to cancel the program; or click Accept to operate with the last out-of-range weight adjustment.
C41	Wait for the head to settle	This message appears when the gantry is settling after moving to the precision scale and is informational only.	No action is required.
C42	Calibration is not valid	This message appears if the system is in AutoMode and calibration was not completed successfully.	Click Cancel to cancel this program and re-run the program. Clicking Continue allows running with inadequate calibration: this is not recommended but may be useful when testing a new program.
C43	Needle Cleaners are set up incorrectly	This message appears when a system has automatic needle cleaners and either the cleaning parameters are incorrect or the base locations for the needle cleaners are incorrectly taught.	Click Abort, fix the problem, and re-run the program. Clicking Continue allows running without proper needle cleaning: this is not recommended but may be useful when testing a new program.
C44	Unable to reset scale	This message appears when an attempt to zero the precision scale fails, usually due to bad parameters (delays too short), machine vibration, or wind.	Click Retry to try again, or click Abort to terminate the program and fix the problem.
C45	Scale has not stabilized: Accept, Retry, or Abort	This message appears when an attempt to read a Denver Instruments precision scale determines that the scale is unstable, usually due to vibration or wind.	Click Retry to repeat weighing, or Abort to cancel the program. Clicking Continue allows running with bad readings: this is not recommended but may be useful when testing a new program.
C46	Clean Probe and Touch pad Click CONTINUE to Proceed	This message appears before needle touchdown on the touch pad when the option WipeForTouch is turned on. It is a request to clean the probe, needle, and touch pad manually.	Perform the requested cleaning and click Continue to proceed; click Abort to terminate the program.
C47	Weight Retries Exhausted: Try again?	This message appears when weighing on the scale has failed for the scheduled number of retries. It allows further retries, but it may be unlikely that more retries will be successful.	Click Yes to repeat retries, or click No to terminate the program.
C48	Prepare Tilt Fixture for Calibration	This message appears when the VCI tilt fixture should be calibrated.	To calibrate, remove the carrier and click OK. To skip calibration, click Cancel. (Upon startup calibration is mandatory: you will not be able to proceed without calibrating).
C49	You MUST calibrate to continue	This message appears after message C48 when calibration of the VCI tilt fixture is mandatory.	Click Continue; message C48 will be repeated. You cannot continue with the program until calibration is performed.

Table 2: Calibration Support Messages

No.	Description	Problem	Solution
C50	The Tilt Fixture is NOT operating	This message appears after message C48 when the VCI tilt fixture does not home properly.	Fix the problem and click Continue; message C48 will be repeated.
C51	Move to desired Y coordinate	This message appears in a jog screen as a result of a VCI calibrate program.	Move the gantry so the camera is over the desired start point for dispensing and click OK. The gantry will move so the needle (or calibration tool) is above the start point, where message C52 will be issued.
C52	Move to desired Z location	This message appears in a jog screen as a result of a VCI calibrate program.	Move the gantry so the end of the needle is positioned at the desired start point for dispensing and click OK. This completes calibration at this point. A calibration program normally calibrates at 4 points.

Editor Messages

The following messages are generated by the program editor window.

Action required: In some cases, these messages prompt for operator action; in other cases, they notify the operator of an abnormal condition.

Table 3: Editor Messages

No.	Description	Problem	Solution
E01	New Name for the Program	This message asks for a name when renaming an existing program.	Enter the desired name and click OK; or click Cancel to abandon renaming the program.
E02	Name for the new Board	This message asks for a name when converting a program to a board.	Enter the desired name and click OK; or click Cancel to abandon conversion.
E03	Name for the new Program	This message asks for a name when creating a new program or when converting a shape to a program.	Enter the desired name and click OK; or click Cancel to abandon creation of a new program or to abandon conversion.
E04	Name for the new Shape	This message asks for a name when creating a new shape or when converting a program to a shape.	Enter the desired name and click OK; or click Cancel to abandon creation of a new shape or to abandon conversion.
E05	Name for the new Copy	This message asks for a name when making a copy of a program or a shape.	Enter the desired name and click OK; or click Cancel to abandon the copy.
E06	New Name for the Shape	This message asks for a name when renaming an existing shape.	Enter the desired name and click OK; or click Cancel to abandon renaming the shape.
E07	Unable to use this name The name may exist already <name>	This message appears when renaming or converting an existing shape or program or when making a copy if the supplied name cannot be used.	Press OK to abandon the renaming or creation and try again with a different name.
E08	Unable to create this item <name>	This message appears under the same conditions as message E07 but it occurs after validating the new name.	Press OK to abandon the renaming or creation and notify GPD of the circumstances under which the error occurred.
E09	List Select Error: No Such Item [No Reference]		
E10	Improper Selection Re-select or turn AutoMode off	This message appears in AutoMode when the bar/matrix code reader file is corrupted or refers to a non-existent program.	Click OK and enter the name of the correct program to run; or turn AutoMode off and click OK to terminate AutoMode.
E11	Conveyor MUST be active for Auto Mode	This message appears when AutoMode is turned on while the conveyor is disabled.	Click OK to close the message. Then restore the conveyor to normal operation and turn AutoMode on for proper automatic operation.
E12	Illegal Password Entered (Passwords must be unique)	This message appears if a duplicate password is entered when editing passwords.	Click Retry and enter a different password.

Table 3: Editor Messages

No.	Description	Problem	Solution
E13	Program data has changed Save changes?	This message appears when changes are made in the program/shape detail screen and Done is clicked, or when changes are made in a program/shape and either a new program/shape is requested or the program/shape mode is changed.	To save the changes click Save; to discard the changes click Discard.
E14	Confirm deletion of Password	This message appears when deleting a password.	Click OK to delete the password; click Cancel to abandon deletion.
E15	Confirm deletion of Tool/Valve <tool/valve name>	This message appears when deleting the named tool or valve.	Click OK to delete the tool or valve; click Cancel to abandon deletion.
E16	Confirm deletion of Material [No Reference]		
E17	Confirm deletion of Pattern <pattern name>	This message appears when deleting the named vision pattern.	Click OK to delete the pattern; click Cancel to abandon deletion.
E18	Confirm deletion of Needle <needle name>	This message appears when deleting the named needle.	Click OK to delete the needle; click Cancel to abandon deletion.
E19	Enter the name of the new pattern	This message asks for a name when creating a new vision pattern.	Enter the desired name and click OK; or click Cancel to abandon creating the pattern.
E20	Patterns in use by a program cannot be deleted: <pattern name>	This message appears when attempting to delete a vision pattern referenced in a program.	Click OK to continue without deleting the pattern. (To delete this pattern, first remove all references to the pattern.)
E21	Pattern already exists [No reference]		
E22	Select a Valve or Tool	This list usually appears in response to clicking a Valve/Tool button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E23	Optimizing in Progress...	This message appears while the system is optimizing a program. It disappears automatically when the operation terminates.	No action is required.
E24	Confirm deletion of Detail Line	This message appears when deleting a program detail line.	Click OK to delete the line; click Cancel to abandon deletion.
E25	Confirm deletion of Program	This message appears when deleting an entire program.	Click OK to delete the program; click Cancel to abandon deletion.

Table 3: Editor Messages

No.	Description	Problem	Solution
E26	Select a Material	This list usually appears in response to clicking a Material button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. • If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E27	Confirm deletion of Material	This message appears when deleting a material.	Click OK to delete the material; click Cancel to abandon deletion.
E28	Select a Needle	This list usually appears in response to clicking a Needle button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. • If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E29	Item already exists Confirm UPDATE of <item name>	This message appears when a list item is selected by typing the name of an existing item; its purpose is to determine whether the duplication is accidental or whether the existing item is to be updated.	If the existing item is to be updated, click OK; click Cancel to abandon the operation.
E30	Select a Pattern	This list usually appears in response to clicking a Vision Pattern button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. • If the desired entry does not appear in the list, click the Class button to select a class containing the entry. If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E31	Wait for Pattern Loading	This message appears while the system is loading a vision pattern. It disappears automatically when the operation terminates.	No action is required.
E32	Blank Name is not allowed	This message appears when attempting to create or update an item with a blank name. This usually occurs because a blank or tab was entered in the bottom line of a list.	Click Continue to abandon the operation and start over.

Table 3: Editor Messages

No.	Description	Problem	Solution
E33	Is this a New item?	This message appears when the system cannot determine whether the operation is the creation of a new item or an update to the default item; this occurs when a “NONE” item (Tool/Valve, Material, Needle, etc.) is edited, frequently because it is a convenient starting place to create a new item.	Click Yes when creating a new entry; click No when updating the default item.
E34	Pattern is illegal: <pattern name>	This message appears when a defined pattern cannot be written to the data base.	Click Continue and teach a proper pattern; or click Discard to abandon teaching.
E35	Tools/Valves in use by a program cannot be deleted: <tool/valve name>	This message appears when attempting to delete a tool or valve referenced in a program.	Click OK to continue without deleting the tool/valve. (To delete this tool/valve, first remove all references to the tool/valve.)
E36	Unused		
E37	Unable to Convert: Subboards may already exist	This message appears when converting an existing program to a subboard if the supplied name cannot be used, usually because subboards already exist.	Press OK to abandon the conversion and remove subboards or correct any other problem before trying again.
E38	Wait for Pattern Training	This message appears while the system is learning a vision pattern. It disappears automatically when the operation terminates.	No action is required.
E39	Needle in use by a program cannot be deleted: <needle name>	This message appears when attempting to delete a needle referenced in a program.	Click OK to continue without deleting the needle. (To delete this needle, first remove all references to the needle.)
E40	Select a Part Number	This list usually appears in response to clicking a Part Number button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E41	Confirm deletion of Part Number	This message appears when deleting a part number.	Click OK to delete the part number; click Cancel to abandon deletion.
E42	Part Number in use by a program cannot be deleted: <part number>	This message appears when attempting to delete a part number referenced in a program.	Click OK to continue without deleting the part number. (To delete this part number, first remove all references to the part number.)
E43	Select a Shape	This list usually appears in response to adding a Shape to a program.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.

Table 3: Editor Messages

No.	Description	Problem	Solution
E44	Select an Operation	This list usually appears in response to adding a line to a program.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.
E45	Cannot add this Item	This message appears when adding a detail line to a program if the line cannot be added to the data base.	Click OK to continue editing and notify GPD of the circumstances under which the error occurred.
E46	Select a new Operation	This list usually appears in response to clicking an Operation Type button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.
E47	Select a new Operation SubType	This list usually appears in response to clicking a Subtype button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.
E48	Select a new Head	This list usually appears in response to clicking a Valve/Tool button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.
E49	The vision processor is in use Try again later	This message appears when opening the vision processor fails, usually because it is inoperative.	Click OK to continue without vision support.
E50	Clipboard cannot be used	This message appears as a result of a Cut or Copy operation in the detail editor when there is insufficient memory to perform the operation.	Click OK to continue without the Cut or Copy.
E51	[No Reference - No Message]		
E52	Enter a Feature ID	This message appears in response to clicking "Find Feature" in the detail editor; it requests the Feature ID to be found.	Click Cancel to abandon the search; or enter the desired Feature ID and click OK: the list of lines will scroll to the first occurrence of the feature, or message E53 will be displayed if the feature cannot be found.

Table 3: Editor Messages

No.	Description	Problem	Solution
E53	No Match Found	This message appears in response to a request to find a feature that does not exist.	Click OK to continue.
E54	Values have changed Do you want to save?	This message appears when changes are made in the Materials, Mounts, or Material Default screens and Done is clicked.	To save the changes click Yes; to discard the changes click No.
E55	Confirm deletion of this item	This message appears when deleting a Material or Mount entry.	Click OK to delete the entry; click Cancel to abandon deletion.
E56	Items in use cannot be deleted [No Reference]		
E57	Delete Patterns	This list appears in response to clicking the delete arrow button in the Pattern edit window.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to delete the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Be careful! No confirmation of deleted items will be requested, although attempts to delete non-deletable items will be displayed. • Click Cancel to abandon selection.
E58	Delete Materials	This list appears in response to clicking the delete arrow button in the Materials edit window.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to delete the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Be careful! No confirmation of deleted items will be requested, although attempts to delete non-deletable items will be displayed. • Click Cancel to abandon selection.
E59	Materials in use by a program cannot be deleted:	This message appears when attempting to delete a material referenced in a program.	Click OK to continue without deleting the material. (To delete this material, first remove all references to the material.)

Table 3: Editor Messages

No.	Description	Problem	Solution
E60	Delete Tools/Valves	This list appears in response to clicking the delete arrow button in the Tools/Valves edit window.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to delete the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Be careful! No confirmation of deleted items will be requested, although attempts to delete non-deletable items will be displayed. • Click Cancel to abandon selection.
E61	Delete Needles	This list appears in response to clicking the delete arrow button in the Needles edit window.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to delete the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Be careful! No confirmation of deleted items will be requested, although attempts to delete non-deletable items will be displayed. • Click Cancel to abandon selection.
E62	Delete Part Numbers	This list appears in response to clicking the delete arrow button in the Part Number edit window.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to delete the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Be careful! No confirmation of deleted items will be requested, although attempts to delete non-deletable items will be displayed. • Click Cancel to abandon selection.
E63	Move to Coords	This message appears when the coordinate Move To button is clicked in the detail editor. The camera will move to the specified coordinates.	To move to the coordinates on the next program line click Next. To return to editing program lines click Continue.

Table 3: Editor Messages

No.	Description	Problem	Solution
E64	Select a SubType	This list usually appears in response to clicking a SubType button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. • If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E65	Select an Operation for the subtype	This list appears in response to clicking the arrow button on the SubTypes library edit screen.	Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection.
E66	Confirm deletion of SubType	This message appears when deleting a subtype.	Click OK to delete the subtype; click Cancel to abandon deletion.
E67	Select a Fixed Location	This list usually appears in response to clicking a Fixed Location button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. • If an Edit button appears with this window, click the Edit button to add a new entry or to examine any entry in more detail.
E68	Confirm deletion of Fixed Location	This message appears when deleting a fixed location.	Click OK to delete the fixed location; click Cancel to abandon deletion.
E69	Delete Fixed Locations	This list appears in response to clicking the delete arrow button in the Fixed Location edit window.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to delete the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Be careful! No confirmation of deleted items will be requested, although attempts to delete non-deletable items will be displayed. • Click Cancel to abandon selection.

Homing Messages

These messages are informational and appear during homing when the machine is first powered up.

Action required: No response is required and no detailed explanations are needed.

Table 4: Homing Messages

No.	Description	Problem	Solution
H00	Axis Not Homed		No response is required.
H01	Locating Home Sensor		
H02	Searching for Encoder Index		
H03	Axis Homed		
H04	Moving to World Origin		
H05	Homing Sequence Failed		
H06	Homing Completed		

Jog Messages

The following messages appear in the jog windows.

Table 5: Jog Messages

No.	Description	Problem	Solution
J00	Use the pointer (cursor) to jog around...	This message is self-explanatory.	Click CLOSE to close the jog window and continue, or click ABORT to terminate the operation that sponsored the message.
J01	Move to Fiducial Click Close when there...		
J02	Move to Calibration Dot Click Close when there...		
J03	Move to this Board's REFERENCE POINT then click Close...		
J04	Move to This Shape's REFERENCE POINT then click Close...		
J05	Move to the FIDUCIAL then click Close...		
J06	Move to the Operation Point then click Close...		
J07	Adjust Vision Parameters then click Close...		
J08	Move to the Point desired then click Close		
J09	Move to the Coordinate Point then click a button	This message appears when the coordinate Teach button is clicked in the detail editor.	<ul style="list-style-type: none"> • To teach the coordinates on the current program line only, move the camera to the desired location and click OK. • To teach the coordinates on the current program line and move to the next line, move the camera to the desired location and click Next; the coordinate is updated and the focus moves to the next line with teachable coordinates. • To move to the next line without teaching the coordinates on the current program line, click Skip. • To terminate teaching without updating coordinates on the current line, click Cancel.

Table 5: Jog Messages

No.	Description	Problem	Solution
J10	View Dot Calibration Position or Adjust Manually	This message is elf-explanatory.	Click CLOSE to close the jog window and continue, or click ABORT to terminate the operation that sponsored the message.
J11	Jog the camera to the initial point		
J12	Jog the camera to the farthest x point		
J13	Jog the camera to the X point next to the initial point		
J14	Jog the camera to the Y point next to the initial point		
J15	Jog the Z axis to the desired location		

Main Messages

The following messages are initiated by the main window.

Action required: In some cases, these messages prompt for operator action; in other cases, they notify the operator of an abnormal condition.

Table 6: Main Messages

No.	Description	Problem	Solution
M01	Automatic Mode Calibration is Incomplete Turn Auto Mode ON to re-calibrate	This message appears at the start of an AutoMode operation when the calibration fails.	Click OK to continue; AutoMode is automatically turned off. If any discernable problem exists (e.g., bad lighting, bad lens adjustment), correct it. Then turn AutoMode on to retry the AutoMode calibration.
M02	No Processing Information is Available	This message appears in AutoMode when no board information is available after a specified time.	Supply a board properly and click Retry to continue normally; click Operator to obtain operator control and supply board information manually for the current board.
M03	Select a Program from this List	This list appears in response to clicking the Select button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters. If the desired entry does not appear in the list, click the Class button to select a class containing the entry.
M04	[No reference - no message]		
M05	Illegal AUTOrun Calibration:	This message appears in AutoRun mode when the AutoRun calibration program is unspecified or is unavailable.	Click Abort to cancel current operations. Then supply a correct program for AutoRun calibration.
M06	Cannot Open AUTOrun File	This message appears in AutoRun mode when bar/matrix code reader file cannot be opened.	Fix the file and click Retry to continue normally; click Operator to obtain operator control and supply board information manually for the current board.
M07	Specified program does not exist	This message appears in AutoRun mode when bar/matrix code reader file specifies a non-existent program.	Fix the file and click Retry to continue normally; click Operator to obtain operator control and supply board information manually for the current board.
M08	Waiting for Board	This message appears in AutoRun mode while waiting for a board to appear at the Entry station and is information only.	No action is required; the message disappears when a board is supplied or when time out occurs.
M09	Waiting for Instructions	This message appears in AutoRun mode when a board is present while waiting for the instruction file and is informational only.	No action is required; the message disappears when the file becomes available or when time out occurs.

Table 6: Main Messages

No.	Description	Problem	Solution
M10	Select a Material	This list usually appears in response to clicking a Material button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.
M11	Select a Valve or Tool	This list usually appears in response to clicking a Valve/Tool button.	<ul style="list-style-type: none"> • Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. • If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the typed characters.
M12	Warning: Reboot is required for changes to be effective	This message appears after updating the universal options and is informational only. Earlier versions of FLOWare software updated these values as they were changed, but this caused numerous problems. Current FLOWare software requires rebooting the system for updated values to become effective.	Click OK to continue, but remember that updated values are not yet in operation.
M13	Select a backup to be deleted	This message appears in response to a request to delete a backup file.	<ul style="list-style-type: none"> • Edit the wild-card form at the top of the screen to change the file "extension" and click Filter. • Select a directory from the left panel and click Filter to change to a different directory. • Select a file within the directory from the right panel and click OK to delete that file. • Click Cancel to terminate this operation.
M14	Select a file to edit	This message appears in response to a request to edit an arbitrary file.	<ul style="list-style-type: none"> • Edit the wild-card form at the top of the screen to change the file "extension" and click Filter. • Select a directory from the left panel and click Filter to change to a different directory. • Select a file within the directory from the right panel and click OK to edit that file. • Click Cancel to terminate this operation.
M15	Wait for Valve to Home	This message appears while a servo- or stepper-controlled valve is homing.	No action is required.
M16	BACKUP FAILED Reboot Required	This message appears after a failed (Data, Application, or System) backup has occurred. Click OK to continue.	Reboot is strongly recommended after a failed backup to ensure any damage is not propagated into the current run.

Table 6: Main Messages

No.	Description	Problem	Solution
M17	Select a PID	This list usually appears in response to clicking a PID name button.	<ul style="list-style-type: none"> Click the desired entry or type the desired entry in the line at the bottom of the window, then click Accept to select the entry; click Cancel to abandon selection. If the list is long, type the first few characters of the desired entry in the line at the bottom of the window and click Find: the list will scroll to the first occurrence of the type characters.
M18	Select an export file name	This file selection appears in response to clicking the arrow beside the Export Name in an Import or Export window.	Select an existing name as described under File Selection under System-wide Commands in the User Interface section of the FLOWare Software Guide. If you know the name of the file or are creating a new file, click Cancel and enter the desired name for the Export name.
M19	Select a format file name	This file selection appears in response to clicking the arrow beside the Format Name in an Import or Export window.	Select an existing name as described under File Selection under System-wide Commands in the User Interface section of the FLOWare Software Guide. If you know the name of the file or are creating a new file, click Cancel and enter the desired name for the Format name.
M20	Select any number of Program Names	These lists appear as a result of turning a button on in a Name column of an Export or Import window; the list of names are those to be exported or imported.	<ul style="list-style-type: none"> Pressing CTRL while clicking a list item toggles selection of that item. Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to export/import the selected items. For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. Click Cancel to abandon selection.
M21	Select any number of Vision Pattern Names		
M22	Select any number of Valve or Tool Names		
M23	Select any number of Needle Names		
M24	Select any number of Material Names		
M25	Select any number of Part Numbers		
M26	Select any number of Shape Names		
M27	Select any number of Names to delete		
M28	Wait for Export	This is an informational message appearing while an export is in process. It disappears when export is complete.	No action is required.

Table 6: Main Messages

No.	Description	Problem	Solution
M29	Output from EXPORT	This is an informational message appearing after an export is complete. It may be examined to determine whether the export performed completely and without error.	Click Done to continue.
M30	Select an import file name		
M31	Wait for Import		
M32	Output from IMPORT		
M33	Wait for Import	This is an informational message appearing while an import is in process. It disappears when import is complete.	No action is required.
M34	Output from IMPORT	This is an informational message appearing after an import is complete. It may be examined to determine whether the import performed completely and without error.	Click DONE to continue.

Press Messages

These messages are associated with the Post-Press option. This software is not complete and is not activated. Therefore, these messages should not appear during normal operation.

Table 7: Press Messages

No.	Description	Problem	Solution
P00	Press Results:	Not yet implemented.	
P01	Post Press Vacuum Hold-down has failed.	Not yet implemented.	
P02	Post Press Lifter is Hung	Not yet implemented.	
P03	Waiting for Post Press Heater to Reach Temperature	Not yet implemented.	

Runtime Messages

These messages may appear in a pop-up window at any time while a program is running.

Action required: In some cases, these messages prompt for operator action; in other cases, they notify the operator of an abnormal condition.

Table 8: Runtime Messages

No.	Description	Problem	Solution
R01	Fluid Level is Low, Head <head number>	This message appears if a fluid level detector detects a low fluid level for any head when the next board is started. It requests the operator to refill the reservoir for the indicated head.	Click CONTINUE to continue or click ABORT to abort the program. Continuation is possible and acceptable even with a low fluid level.
R02	TEST TIMEOUT Ignore Test, Retry, or Abort <OpType, Off#, On#>	This message appears when test conditions on an OPERATE function are not met within the allotted time. The Off# and On# are I/O numbers unique to the machine and operation. NOTE: The customer can substitute another more informative user message for this message.	<ul style="list-style-type: none"> Refer to the OPERATE command used to control or test I/O's and for any documentation pertaining to the unique features of the system for more information. Click RETRY to retry after correcting the problem; click IGNORE to continue processing in spite of test failure; click ABORT to abandon testing.
R03	Shapes are nested too deeply	This message appears for a program which references a shape, which in turn references another shape, etc., when these references occur more than 15 levels deep. This can occur if, for example, shape A references shape B and shape B references shape A. The program is always aborted after this message.	Examine and edit the program and all shapes used directly or indirectly by the program. After correcting the problem, re-run the program.
R04	Run Paused Before Board <Board Name>	This message appears immediately before processing a sub-board in Board mode. If the sub-board has no name, its sequence number is displayed in place of the name.	<ul style="list-style-type: none"> Click CONTINUE to continue with the indicated sub-board. ? Click SKIP to skip the indicated sub-board and proceed to the next sub-board on the pallet. Click ABORT to cancel the program when this message is displayed.
R05	Run Paused After <Line# OpType (ShapeName)>	This message appears immediately after processing each line of a program or any of its shapes in Step mode. The line number and OpType are those of the line just processed; if this is a line within a shape, the shape name is enclosed in parentheses.	Click CONTINUE to continue; click ABORT to abort the program.
R06	Error reading Board Items <error#>	This message appears for a pallet when board information cannot be read. The program is always aborted.	Note the error number for later diagnosis. Edit the program and examine all board information to determine if there may be an obvious reason for the problem.
R07	Board is Missing <station list>	This message appears on a conveyor machine when the conveyor waits too long to transfer a board from the upstream machine and/or the downstream machine because the upstream/downstream is not ready.	Make the offending machine ready and click CONTINUE to continue or ABORT to abort the program. If this problem recurs, increase the option WaitForBoard or WaitForRelease to conform to the actual speed of the line.

Table 8: Runtime Messages

No.	Description	Problem	Solution
R08	Remove ALL Boards from Conveyor Clear Standoffs from Lifter Plate	This message appears when the program is about to perform an automatic width adjust for the conveyor if boards are present in the conveyor.	Remove all boards and standoffs to prevent damage and click CONTINUE; click ABORT to abort the program.
R09	Adjust Conveyor Width Manually	This message appears when the program cannot perform an automatic width adjust for the conveyor, usually because there is no board width entered in the program.	Remove any boards to prevent damage, adjust the conveyor manually, and click OK; click ABORT to abort the program. Automatic operation can be instigated by entering board width in the program.
R10	Conveyor Adjustment is Hung	This message appears when the program starts a width adjust for the conveyor and motion does not complete within a reasonable time.	Correct the problem, adjust the conveyor manually, and click CONTINUE; click ABORT to abort the program.
R11	Adjust Lifter Pins	This message appears after conveyor width is adjusted if no lifter pin information appears in the program. It allows the operator to position the pins correctly before processing the first board.	Adjust the pins as needed and click CONTINUE; click ABORT to abort the program.
R12	Lifter is Hung	This message appears on a conveyor machine when a board is in the nest and the lifter is operated but does not come to position within one second. This is frequently caused by a lifter pin running into a conveyor rail, although it can occur if the lifter plate is badly adjusted so the lifter does not operate smoothly.	Correct the problem and click CONTINUE; click ABORT to abort the program.
R13	Transfer Timeout <station list>	This message appears on a conveyor machine when a board is released from a station and does not appear at the next station after a reasonable time. The listed station(s) are the station(s) from which board(s) were released.	Correct the problem and click CONTINUE; or click ABORT to abort the program.
R14	Center Stand-Off in Camera	This message appears when a program is started in response to standoff positioning (SETUP command) in the program.	Place a standoff under the camera, close the door and clear the safety display, and click CONTINUE to continue; or click ABORT to abort the program.
R15	Missing Fixed Location	This message appears during a program run when a shape references a non-existent fixed location. The program is always aborted.	Edit the program and examine all direct and indirect shape references to determine where an undefined location is used. Correct the program and run it again.
R16	Mount Required Pallets	This message appears during program start-up when a program needing pallets or feeders is executed from the RUN button (not the RESTART button).	Supply the needed feeders and/or pallets and click CONTINUE to continue; click ABORT to abort the program. If use of pallets or feeders in current positions is desired, ABORT the run and start it with the RESTART button.
R17	Pallet Feeder Is Hung <fixed location name>	This message appears during a run on a machine with automatic feeders or pallet changers if a new item is requested but the feeder/pallet changer does not respond within a reasonable time.	Correct the problem and click CONTINUE to continue; click ABORT to abort the program.
R18	Mount New Pallet on <fixed location name>	This message appears during a run on a machine when a new item is requested from a manually changed feeder or pallet.	Supply the new requested item and click CONTINUE to continue; click ABORT to abort the program.

Table 8: Runtime Messages

No.	Description	Problem	Solution
R19	Dot Count Exceeded Head <Head number>	Each program may specify maximum values of dots dispensed, valve on time, and total time since start of run in order to prevent empty valves or excessive temperature change. One of these messages appears if a value is exceeded for any head when the next board is started. It requests the operator to tend the valve for the indicated head.	<ul style="list-style-type: none"> Click FIXED to continue with material replacement or replenishment. Click IGNORE to continue without fixing the problem (continuation is possible and acceptable even without correcting the problem, but this message may be repeated every time a new board is started). Click ABORT to abort the program.
R20	Total On Time Exceeded Head <Head number>		
R21	Operation Time Exceeded Head <Head number>		
R22	Lens Timeout	This message appears if any error occurs while communicating with the LENS driver.	Click OK to acknowledge the error, but the lens may not operate properly until the problem is fixed.
R23	Clear Standoffs from Lifter Plate	This message appears when the program is about to perform an automatic width adjust for the conveyor if there are no boards in the conveyor.	Remove any standoffs to prevent damage and click CONTINUE; click ABORT to abort the program.
R24	Bad Head Location <head number>	This message appears when a program line references an out-of-range head number. The program run is canceled when ABORT is clicked.	Edit the program to change the head. Then re-run the program.
R25	Refresh Head <head number>	This message appears after clicking FIXED in response to one of the messages R19, R20, or R21.	Replace or replenish the material in the head and click CONTINUE to continue; click ABORT to abort the program.
R26	Failure to Pickup Head <head number>	This message appears after the specified number of retries with a pickup head have failed.	Place the material manually and click CONTINUE to continue; click ABORT to abort the program.
R27	Pause for badmark	This message is issued when a program contains an OPERATE PAUSE line and no specific user message has been provided. Safety stops are off, allowing free access to the machine.	Click CONTINUE to continue, ABORT to abort the program.
R28	Program Pause		
R29	Vision Error <type: err return>	This message appears when processing vision images for finding blobs. The information is sufficient for a technician familiar with vision systems. Correction usually involves changing parameters in a SUBTYPES record.	Click CONTINUE to continue, ABORT to abort the program.
R30	Lifter Down Error	This message appears on a conveyor machine when the lifter plate is dropped but does not come to position within one second. It is usually caused when the lifter plate is badly adjusted so the lifter does not operate smoothly.	Correct the problem and click CONTINUE; click ABORT to abort the program.

Table 8: Runtime Messages

No.	Description	Problem	Solution
R31	Wait for Valve Loading	This message appears while a two-part valve is reloading and is informational only.	No action is required.
R32	Tilt Unit has Malfunctioned.	This message appears when the program operates a tilt fixture and the fixture does not respond properly within a reasonable time.	Correct the problem and click FIXED; click IGNORE to continue without fixing.
R33	Wait for Heaters to Reach Proper Temperature.	This message appears while material heaters are starting up. It disappears automatically when heaters have reached proper operating temperature.	Click Abort to abort the program before reaching specified temperatures.
R34	Select Features to be Processed.	This list appears to allow the operator to obtain the feature IDs of items to be selected or rejected.	<ul style="list-style-type: none"> • Pressing CTRL while clicking a list item toggles selection of that item. • Change selection of multiple items by pressing CTRL on the keyboard while clicking the desired entries in the list; then click Accept to establish the selected items. • For convenience, all items can be selected by clicking All and all items can be deselected by clicking None. No confirmation of deleted items will be requested. • Click Cancel to abandon selection, equivalent to selecting All.
R35	Prepare and Mount Items Specified.	This screen displays mount and other information.	<ol style="list-style-type: none"> 1. Mount the valves/tools as specified using material and needles requested by the display. 2. Enter lot number, category, and type as required by your installation. 3. Click on buttons to suppress calibration items and select feature ID's as needed. 4. Follow all instructions in the Operator Instructions panel. 5. When all operations are complete, click CONTINUE to run the program; or click ABORT at any time to abort the program.
R36	Cannot Open AUTOrun File	This message appears in AutoRun mode when bar/matrix code reader file cannot be opened.	<ul style="list-style-type: none"> • Click Abort and cancel the program and AutoRun mode. • Fix the problem and restart AutoRun mode.
R37	AUTOrun File is Corrupt	This message appears in AutoMode when the bar/matrix code reader file exists but is formatted improperly.	<ul style="list-style-type: none"> • Click Abort to cancel the program and AutoRun mode. • Call your engineer to correct the problem.
R38	Illegal AUTOrun Program	This message appears in AutoMode when the bar/matrix code reader file exists but refers to a non-existent program.	<ul style="list-style-type: none"> • Click Abort to cancel the program and AutoRun mode. • Call your engineer to correct the problem.
R39	Illegal AUTOrun Calibration	This message appears in AutoRun mode when the AutoRun calibration program is unspecified or is unavailable.	Click Abort to cancel the program and AutoRun mode. Then supply a correct program for AutoRun calibration and restart AutoRun mode.

Table 8: Runtime Messages

No.	Description	Problem	Solution
R40	Cannot find specified program	This message appears while a pattern search is in process for an OPERATE command and is informational only.	No action is required.
R41	Prepare Valves/Materials		
R42	Wait for Pattern Searching		
R43	Program tweaks data has changed Save or discard changes?	This message appears when a program terminates and changes have been made with tweaks.	To save the changes click Save; to discard the changes click Discard.
R44	Loading Program	This animated message is displayed when loading of a program from the data base begins. It disappears when loading is complete.	No action is required.
R45	Wait for MV Valve to Reach Idle Pressure	This message appears when the MV Valve is being prepared to operate. It disappears when idle pressure in the valve is attained.	No action is required.
R46	Parts Pallet is not Ready	This message appears when any PartsReady I/O shows not ready. It disappears when all three PartsReady sensors show ready.	No action is required.
R47	Program Paused by Operator	This message appears when the operator pauses the running program. It disappears automatically when the run is resumed.	No action is required.
R48	Probe Elevations:	This message displays part thicknesses for the VCI tilt fixture. It appears after all parts have been probed when the Printer button is on and is informational only.	Click OK to continue.
R49	The Tilt Fixture is NOT operating	This message appears when the VCI tilt fixture fails to move to the required position.	Fix the problem and click Retry to continue; click Cancel to abort the program. Clicking OK allows the operation to continue by ignoring the error.
R50	Scale Cup Needs Cleaning	This message appears when the number of dispenses into the scale cup exceeds the programmed limit.	Clean or replace the cup and click OK to proceed.
R51	Dot size is out of range	This message appears during automatic dot inspection when the dot is not the specified size.	Continue or abort as appropriate under the circumstances.
R52	ERROR Cannot Find Calibration Dot	This message appears during calibration for automatic dot inspection when a calibration dot cannot be found.	Abort the program, change lens/camera settings, or re-teach base locations. Then try again.
R53	ERROR Cannot Find Dot	This message appears during automatic dot inspection when the dot cannot be found. The dot coordinates may be taught incorrectly, or material may be faulty (air bubbles or incorrect temperature, etc.).	Continue or abort as appropriate under the circumstances.

System Messages

These messages may appear in a pop-up window at any time. They provide general information or control not limited to any specific program. Prior to version 1.7c of the dispenser software, these messages had their own windows with no specific identification but they are now absorbed into the general message system.

Table 9: System Messages

No.	Description	Problem	Solution
S00	Do you Really Want to Reboot?	These messages appear to confirm a request to reboot or shut the machine off.	Click YES to reboot or shut the system down. Click CANCEL to return to normal operation.
S01	Do you Really Want to Shut Down?		
S02	Illegal Password Entered	This message appears when the operator enters an illegally formatted password.	Click RETRY to try to enter the password correctly; click CANCEL to use the current password.
S03	Enter a Password:	This message appears when the operator asks to enter a new password.	Enter the password in the window and click OK; click CANCEL to use the current password.
S04	Illegal Access Attempted All Access Changes are Logged	This message appears when the operator enters an unknown password.	Click RETRY to try to enter the password correctly; click CANCEL to use the current password.
S05	A problem was detected while homing the gantry	This message appears at startup when the gantry cannot be homed.	Try moving the gantry manually and click OK: the system will again try to home. If this message persists, call your service personnel.
S06	Message Tables are out of Sync Call GPD Global Service Personnel	This message appears at startup when the resource files are corrupted.	Click ABORT and try to reboot the machine. If this message persists, call your service personnel.
S07	Ready to home servos Click OK to proceed.	This message appears during start-up to allow the operator to ensure the system is ready to home.	Inspect the machine for presence of tools or other items that may obstruct homing, or other potential problems such as loose wires or fillings before clicking OK to home the motors.
S08	System Stopped. Turn it off now.	This message appears after all essential facilities are terminated in response to message S01.	The only action possible at this point is to turn machine power off.
S09	A problem is detected within the servo system.	This message appears when recovering from a motion problem (e.g., running the gantry into a stop) if the motors cannot be properly restarted.	Click ABORT to abandon operations. Try turning the machine off and rebooting. If this message persists, call your service personnel.
S10	Unable to locate/open the database.	These messages appear when a significant part of the software cannot be reached.	Clicking ABORT terminates operation. Notify GPD Global if one of these messages appears.
S11	Unable to open COMMON.		
S12	Unable to attach name.		
S13	Air Pressure Lost. Click OK to Clear.	One of these messages appears if air pressure to the machine is too low or if one of the safety shields is open. If the program is not expecting the window to open, any running program is aborted.	Correct the problem and click OK to continue.
S14	Safety Violation. Click OK to Clear.		

Table 9: System Messages

No.	Description	Problem	Solution
S15	Live Camera.	This display appears when the operator has requested Live Camera and the camera is observing something significant.	This message disappears when some other part of the gantry is active, or when the operator clicks CONTINUE when the Continue button is present.
S16	Unable to start the Flasher: MISC	This message appears when a significant part of the software cannot be reached.	Clicking ABORT terminates operation. Notify GPD if this message appears.
S17	Cannot open Display.		
S18	Wait...	This message appears when the system is performing an operation that may take a significant amount of time and is informational only. It disappears automatically when the operation terminates.	No action is required.
S19	Message Conflict -- Notify GPD Global <one or two numbers>	This message appears if the system tries to display two messages of the same class.	The message persists until the window is closed by clicking CLOSE. Operation can continue, but the second message is lost. Please notify GPD Global if this message appears.
S20	Illegal Resource ID	This message appears if a requested message is absent from a resource file.	The message persists until the window is closed by clicking CLOSE. Operation can continue, but the second message is lost. Correct the file and re-run the program.
S21	Cannot Read Special Locations	These messages appear when a significant part of the software cannot be reached.	Click ABORT terminates operation. Notify GPD if one of these messages appears.
S22	The vision processor is unavailable		
S23	Cannot Open Conveyor Control		
S24	IDLE STATE	These messages never appear on the screen. They exist internally to switch accounting information on between Idle and Run time accumulation.	No action is required.
S25	RUN STATE		
S26	Log Open Failure	These messages appear when a significant part of the software cannot be reached.	Clicking ABORT terminates operation. Notify GPD if one of these messages appears.
S27	Pipe Open Failure		
S28	I/O System Open Failure		
S29	Create Server Failure		
S30	Cannot Read Universal Options:\n		
S31	Cannot Read General Defaults:\n		
S32	Cannot Open DSmisc		

Table 9: System Messages

No.	Description	Problem	Solution
S33	Select any number of Classes	This list appears in response to clicking the Class button in any display with a Class button.	<ul style="list-style-type: none"> Pressing CTRL while clicking a list item toggles selection of that class. Change selection of multiple classes by pressing CTRL on the keyboard while clicking the desired class in the list; then click Accept to establish the new class selections. For convenience, all classes can be selected by clicking All and all classes can be deselected by clicking None. Click Cancel to abandon selection.
S34	A Data Base error has occurred	This message appears when a file in the data base cannot be reached.	Clicking Abort terminates operation. Notify GPD if this message appears.
S35	Shutdown in process	These messages appear while the system is shutting down and are informational only.	No action is required.
S36	Line Power is Lost - - Starting Shutdown		
S37	Jog Conflict Only one jog screen allowed	This message appears if the operator tries to open a Jog screen when a Jog screen is already open.	The message persists until the window is closed by clicking Close. Operation continues normally.
S38	Vision System Busy - - Unable to perform operation	This message appears when a vision operation is tried if the vision system is unavailable for any reason.	The operation is ignored and the message persists until the window is closed by clicking Close.
S39	Live Camera	This display appears when the operator has requested Live Camera and the camera is observing something significant.	This message disappears when some other part of the gantry is active, or when the operator clicks Skip.
S40	Run is Inhibited...	This display appears between boards when the I/O Inhibit handshake signal is active.	This message disappears when the signal becomes inactive. No action is required.

Test Messages

These messages are used for testing and debugging the software. They may vary from anything shown here due to their nature.

Table 10: Test Messages

No.	Description	Problem	Solution
T00	Debug Message	Txx: messages should never appear in release-level software.	If a Txx: message is displayed from Beta-level software, it is usually ignored by clicking on the left button regardless of the label on the button. Notify GPD Global immediately if one of these messages is displayed in release software.
T01	Test for FILE selection		
T02	Test for Data type		
T03	Test Animated Display		
T04	Table Test		
T05	Table TEST		
T06	Timed Message test		

User-defined Messages

The file `ds.user.msgs` has provision for up to 10 user-defined messages designated U00: to U09:. Each message is displayed with Ignore, Retry, and Abort buttons. These messages are unique to each installation and should be documented in a local reference manual. Default messages are provided as follows:

Table 11: User-defined Messages

No.	Description	Problem	Solution
U00	Default User Message 0		
U01	Default User Message 1		
U02	Default User Message 2		
U03	Default User Message 3		
U04	Default User Message 4		
U05	Default User Message 5		
U06	Default User Message 6		
U07	Default User Message 7		
U08	Default User Message 8		
U09	Default User Message 9		

