

Grader Errors and Warnings

Grader Errors and Warnings

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Introduction

This document contains a list of all available error numbers with a description and a solution.

The following information is shown:

- The number of the error.
- An explanation of the error.
- A solution for the problem.
- An explanation of the subnumbers of an error
- The error category
- The error Type
- The error Mode

There are 3 error categories:

	Error category	Example	Description
1	System errors	E010 MCP TIMING ERROR	System errors should not occur during normal operation. However, if they do occur, contact the Sanovo Service Department. If possible, describe the situation in which the error occurred. (E.g. during starting/stopping the machine, etc..)
2	Operating errors	E121 Batch data not entered for zone 1	Operating errors are caused by the machine operator.
3	Machine errors	E023 Weighing problem! Examine and/or clean scale 12	Machine errors occur during normal operation and are caused by normal external problems.

There are 2 error types:

	Error type	Description
1	Error	An error will stop the machine, and the machine can not be started again before the cause of the error is resolved.
2	Warning	There is a problem but the machine can continue. Resolve the issue before it becomes an error.

There are 4 error modes which tell EGGitTouch how to react on the error:

	Error mode	Description
1	NOTHING: Do nothing	This error or warning is not handled by EGGitTouch
2	D_O: Display only	This error or warning is displayed on the screens only
3	R_O: Register only	This error or warning is registered only in the error logs

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	Error mode	Description
4	R_A_D: Register and display	This error or warning is registered in the error logs and displayed on the screen

The following abbreviations are used in the error messages:

	Abbreviation	Description
1	LWP	Loadcell Weighing Processor.
2	MCP	Master Control Processor.
3	DLPD	Lane Processor.
4	HMI	Human Machine Interface = Touch panel control
5	CSU	Crack Detector Unit
6	DDP	Dirt Detector Processor
7	LDP	Leaker Detector Processor
8	EGG-it Trace /EggSwitch	Automatic processing of batch data

Do and Don'ts when solving problems

- Never simply power down and power up the grader to solve problems, unless the service department asks you to do.
- When you need to cycle the power then there are two ways:
 - A 30 seconds power down: Reset all electronic hardware (CX and connected EtherCAT hardware) and power down the frequency converters.
 - A 10 minutes power down: Reset all electronic hardware (CX and connected EtherCAT hardware) and power down the frequency converters and power down all PC's with their UPS's.
- The UPS's from the PC's will start their power down sequence after 1 minute, so when you are past this point they have to go all the way down, which can take between 5 or 10 minutes
- When the machine is stopped and does not want to run anymore use the error screen to look at the errors and determine from that point on what to do. Do not use the EGG-it TV screens only, because they only show 1 message at a time. Use the total list in the error screen to draw conclusions about the problem.
- Be sure to have the ON/OFF switch in the ON position when you are resetting errors with the RUN/Start button.

When there are EtherCAT problems use the "Main Control" screen to determine which devices are giving problem or are missing. Use the number to find the device in the electrical drawings and use the drawings to determine their physical location.

- Highlight any error in the error lists or error history list and press on the help button to jump right away to the help for this error or warning.
- When EtherCAT devices have to be interchanged take care that the grader is empty and powered down while doing this!
- If EtherCAT devices cannot be interchanged, because there are no spare parts, the grader can continue without these EtherCAT devices. Of course depending of the importance of the parts. If the main drive is missing there is a problem, but a clamp in one of the solenoid sections or a crack

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detector is not problem. Use the switch "Do not stop due to EtherCAT errors" in the "Main Control" screen, to get the grader running again.

- If EtherCAT devices are missing in a solenoid section take care that there are no eggs sorted anymore on that sort station!
- For the rest use common sense and the help of the service department to solve problems, and do not power down and power up the grader simply to solve problems.

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Grader errors

E000: UNKNOWN ERROR

Active	Type	Category	Mode
Yes OPTIGRADER	Error	System	R_A_D
No GRADERPRO			

Description:

An error occurred that isn't handled by another defined error code.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

E001: WATCHDOG ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The MCP was restarted because the program had stopped running.

Solution:

Contact the Sanovo Service Department.

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Subnumber description:

No subnumbers defined.

E004: TWINCAT ARRAY OUT OF BOUND ERROR

Active	Type	Category	Mode
Yes	Error	System	R_O

Description:

This error indicates a software problem.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

W005: SOLENOID TEST ACTIVE

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

Description:

The machine is performing a self check.

Solution:

No action is needed.

Subnumber description:

Subnumber	Error
1	Wakeup call
2	Wakeup call

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W006: AUTO TEACHING DYNAMIC STOP POSITION x OF n

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

Description:

Auto Teach dynamic stop positions active.

Solution:

No action is needed.

Subnumber description:

Basket sequence number of total number of baskets.

E010: MCP TIMING ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The MCP timing signals did not reach the MCP in the correct order.

Solution:

Check all timing settings on the Proface display. Use the default timing settings in the manual as a reference.

Subnumber description:

2, 3, 6, 9, 11, 12, 13, 14

E012: GRADER STOPPED ON REQUEST OF BASKET

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The grader stopped due to an error in a basket of the main track.

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Solution:

Inspect the basket in the main track.

Subnumber description:

Subnumber	Error
11	at basket check position
12	at inspection area
13	at inserter inspection area
14	at cup conveyor inspection area

W013: CHAIN STRETCH

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

Warnings concerning the chain stretch compensation functions.

Solution:

Inspect the basket in the main track.

Subnumber description:

Subnumber	Error
1	No valid data from EL3255
2	EL3255 sensor error
3	Check settings, difference is too big (n mm)
4	Check number of removed baskets, there is a difference (n basket(s))
5	Setting is too big (n mm)
6	Setting is too small (n mm)
7	Number of removed baskets setting is too big (n baskets)
8	Number of removed baskets setting is too small (n baskets)

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E014: Safety system activated, please reset safety

Active	Type	Category	Mode
No OPTIGRADER	Error	System	R_A_D
Yes GRADERPRO			

Description:

At power up of the machine the safety relay isn't active, to proceed the safety circuit has to be reset.

Solution:

Reset the safety circuit.

Subnumber description:

No subnumbers defined.

E015: Main motor not running when the Grader expect it to run

Active	Type	Category	Mode
No OPTIGRADER	Error	System	R_A_D
Yes GRADERPRO			

Description:

The main motor is expected to run, but for some reason it isn't starting to run (the commanded frequency drive speed is zero)

Solution:

Start the Grader again, if not successful then contact Sanovo service department.

Subnumber description:

No subnumbers defined.

E020: LWPCOM ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

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Description:

A software problem has occurred in the communication with the LWP.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

99: Unknown weighing system
LWPCOM: (Loadcells connected via LWP board)
1: Wrong scale number
2: Wrong command
3: Wrong command
LWSOM: (Loadcells connected via HBM modules)
2: Unknown state during calibration
3: Unknown state during Baud rate scan
1-18: Scale wrong state for scale (sub number)
21-38: Scale not established for scale (sub number - 20)

E021: COMMUNICATION ERROR WITH LWP

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

An error has occurred in the communication between the MCP and the LWP.

Solution:

Check the cables and the power supply to the loadcells.

Subnumber description:

0: Communication error with LWP
LWPCOM: (Loadcells connected via LWP board)
1-5: Communication error
LWSOM: (Loadcells connected via HBM modules)
1-18: Connect timeout for scale (sub number)
21-38: Receive weight timeout for scale (sub number - 20)
41-58: Receive RT weight timeout for scale (sub number - 40)
61-78: Receive zero weight timeout for scale (sub number - 60)
81-98: Receive block weight timeout for scale (sub number - 80)
101-118: Receive intermediate weight timeout (sub number - 100)

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SWPCOM: (Loadcells connected via Syrinx modules)

First one or two digits of error subnumber represent the loadcell number.

Last digit of the error subnumber represent the error.

Error number:

0: Communication timeout

2: Wrong command

3: Wrong action

4: Wrong parameter

5: Calibration Busy

9: Communication timeout

So Error E021-123 means: Wrong action (error 3) for Loadcell 12.

E022: LWP NVRAM: FACTORY SETTINGS LOADED

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The LWP has loaded its factory settings, i.e. all loadcells have been set to the standard settings. This happens when there is an error in the NVRAM memory, or when new LWP control software has been downloaded. N.B. this is not the grading program, but the software that controls the machine.

Solution:

Recalibrate the loadcells with the Admin PC control.

Subnumber description:

LWPCOM: (Loadcells connected via LWP board)

1: NVRAM factory settings loaded

SWPCOM: (Loadcells connected via Syrinx modules)

0: SWP weighing settings to defaults

1: SWP weighing settings CRC Error

2: SWP FIR Filter settings to defaults

3: SWP FIR Filter settings CRC Error

4: SWP CAN settings to default

5: SWP CAN settings CRC Error

E023: WEIGHING PROBLEM! EXAMINE AND/OR CLEAN SCALE

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The load cell reads an incorrect zero value during automatic calibration.

Grader Errors and Warnings

Solution:

Steps to take to solve this problem:

- 1 - Examine or clean the scale with the problem.
- 2 - Restart grader and check if problem is over.

If the grader stops again after about 20 strokes, because the error comes back, then take the following extra steps to solve this problem:

- 1 - Remove the egg from the scale with the problem
- 2 - Go to the "EGG-it Touch - Scale - View weights" screen
- 3 - Press the "Refresh" button to do a static weight measurement for all scales, the scale with the problem should show zero as weight value. This because the scale is empty.
- 4 - If the value is not zero then clean the scale again and press the "Refresh" button again to check if the weight value is getting close to zero. If the weight value gets smaller than 2.0 gram you can restart the grader again.
- 5 - If you do not succeed and the weight value is still bigger then +/- 2.0 gram BUT less than +/- 45.0 grams, press the "Manually Tare" button and press the "Apply" button to activate this function. Restart the grader and check on the screen if the error message in the status field in the screen disappears.
- 6 - If the error message does not disappear OR the weight value is still bigger than +/- 45 gram then the scale has to be recalibrated again with the 60 gram test egg!

Subnumber description:

scale number

E030: EGGPROC ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

A software problem has occurred in handling the eggs after they have been weighed. Please note the sub number.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

- 11: Wrong irus pointer value
- 12: Wrong cdp pointer value
- 13: Wrong ddp pointer value
- 14: Wrong ldp pointer value
- 15: wrong lwp pointer value
- 21: Wrong blood check pointer value
- 22: Wrong inkjet pointer value
- 23: Wrong begin check pointer value
- 24: Wrong end check pointer value
- 30: Wrong lane pointer value for lane: (subnumber-30)

Grader Errors and Warnings

E031: EGG-HOLDER TIMING ERROR

Active	Type	Category	Mode
Yes OPTIGRADER	Error	Machine	R_A_D
No GRADERPRO			

Description:

The Egg holder timing signals did not reach the MCP in the correct order or did not function properly.

Solution:

Check the appropriate timing settings for defects. Look in the manual for the default settings.

Subnumber description:

- 11 - LWP pointer
- 12 - CDP pointer
- 13 - DDP pointer
- 15 - LDP pointer
- 15 - Infeed out pointer
- 20 - Basket in pointer
- 21 - Blood check pointer
- 22 - Begin check pointer
- 23 - Inkjet pointer
- 24 - End check pointer
- For the Alpha only
- 25 - Basket in pointer
- 31+nr - Lane pointer (where nr is the lane number)
- 110:- DropAlgorithm Error

E032: BLOOD DETECTOR: LOW LIGHT ERROR TRACK

Active	Type	Category	Mode
No	Error	Machine	R_A_D

Description:

The blood detector does not receive enough light.

Solution:

Check the lamp of the affected blood detector for defects and check the blood detector for dirt.

Grader Errors and Warnings

Subnumber description:

No subnumbers defined.

E033: ALARM BEGIN-CHECK MAX LIMIT PASSED

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The number of not correct lifted eggs has reached the predefined maximum. Remove the fallen and/or broken eggs at the lifters or inserter.

Solution:

The machine will restart after the ON/RESET push-button has been pressed. If the error message reappears regularly, contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

E034: ALARM END-CHECK MAX LIMIT PASSED

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The number of wrong eggs dropped at the ejector funnel has reached the predefined maximum.

Solution:

The machine will restart after the ON/RESET push-button has been pressed. If the error message reappears regularly, contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E035: LANEPROC ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

An egg was lost from the track in the specified lane. The lane did expect that an egg would be dropped from the track, but that egg wasn't present.

Solution:

Investigate if the egg can be found elsewhere
Resume the grader and manually add the missing egg.
Contact Sanovo if the situation is persisting

Subnumber description:

no subnumber

E036: CUP CONVEYOR BAR NOT CLOSED

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

An egg holder in the cup conveyor wasn't closed properly

Solution:

Subnumber description:

no subnumber

E037: EGG HOLDER NOT CLOSED

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

An egg holder in the main track wasn't closed properly

Grader Errors and Warnings

Solution:

Subnumber description:

no subnumber

E038: SENSOR IS NOT SEEING BASKETS

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

A sensor is not seeing baskets while it is supposed to do so.

Solution:

Subnumber description:

Subnumber	Error
1	Begin Check sensor track x
2	Begin Check sensor track x
3	Begin Check sensor track x
11	, track y

E039: CUPCONVEYOR CHAIN TENSIONING IS AT ITS MAX POSITION

Active	Type	Category	Mode
NO OPTIGRADER			
YES GRADERPRO	Warning	System	R_A_D

Description:

The cupconveyor tensioning system is behind covers. To signal that the tensioner is in its maximum position this warning is generated

 Grader Errors and Warnings

Solution:

Adjust the tensioner system so the proximity switch, for detecting the max position, is activated again.

Subnumber description:

no subnumber

E040: EGGLTSWITCH ZONE ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

A batch was loaded at the specified zone which isn't recognized or known by the grader

Solution:

Add the batch to the grader from EGGLTTouch or the ERP system
Scan the batch or RFID egg again for the grader to continue

Subnumber description:

Subnumber	Error	Description
1	Tag buffer overflow	Too many batches loaded in the grader
2	Self-test read problem, scanner	
3	Zone <x> tag could not find EGGLT-ID	The RFID egg's number is not assigned an EGGLTid
4	Zone <x> EGGLT-ID could not find supplier	The EGGLT id of the batch could not be found in the grader's supplier batch list
5	Tag not found in zone <x> batch list	The tag of the batch could not be found in the grader's supplier batch list
6	Zone <x>, waiting for batch data	The zone is waiting for batch data so that the batch can be finished
7	Software error in Grader	Contact Sanovo
8	Zone <x>, loader buffer overflow	Too many batches in the loader's list
9	Zone <x>, infeed buffer overflow	Too many batches in the loader's list

W041: EGGLTSWITCH ZONE WARNING

Active	Type	Category	Mode
Yes	Warning	Operating	R_A_D

Grader Errors and Warnings

Description:

A batch was loaded at the specified zone which isn't recognized or known by the grader

Solution:

Add the batch to the grader from EGGitTouch or the ERP system
Scan the batch or RFID egg again for the grader to continue

Subnumber description:

Subnumber	Error
1	Batch buffer full
2	Batch to delete not found
3	Batch list empty
4	Ref nr or tag of batch not found
5	Self Test OK
6	New batch is empty, no GUID
7	Batch move to infeed - zone not active
8	Batch move to loader - zone not active
9	Batch move from loader to infeed - zone not active
10	Cannot add batch to buffer - Zone is not in use
11	Same tag again, not handled
12	New batch has no unique EGG-it ID or GUID
13	New batch has wrong EGG-it ID <x>
14	Loader list empty
15	Infeed list empty
16	Batch to update not found
17	Moving batch to another zone is not supported
18	Batch to update not in buffer
19	EGG-it ID is already used
20	Batch to update has wrong EGG-it ID <x>
21	(%d2), range [1..50]
22	(%d2), range [51..100]
23	New batch has no producer code
24	Cannot update batch in buffer - Zone is not in use
25	Updated batch has no producer code
26	Updated batch is empty, no GUID

Grader Errors and Warnings

E042: EGGITSWITCH COM ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

EGG-it Switch communication problem.

Solution:

Subnumber description:

Subnumber	Error
1	in EL6021, nr <x>
2	with scanner <x>, reading version info

E045: CUP CONVEYOR BAR [#Number1], EGG HOLDER [#Number2], [#Subnumber1]

Active	Type	Category	Mode
No OPTIGRADER	Error	System	R_A_D
Yes GRADERPRO			

Description:

The Cup conveyor bar [#Number1], egg holder [#Number2], has lost an egg or still holds an egg.

Solution:

Investigate if the egg can be found elsewhere

Remove the egg in the designated cup conveyor bar and egg holder in case the egg is still present.

Contact Sanovo if the situation is persisting

Subnumber description:

Subnumber1	Error
1	lost an egg
2	still holds an egg
3	cup is misaligned

Grader Errors and Warnings

E046: INSETER EGG HOLDER [#Number1], TRACK [#Number2], [#Subnumber1]

Active	Type	Category	Mode
No OPTIGRADER	Error	System	R_A_D
Yes GRADERPRO			

Description:

The Inserter egg holder [#Number1], track [#Number2], has lost an egg or still holds an egg or inserter cup is misaligned.

Solution:

Investigate if the egg can be found elsewhere

Remove the egg in the designated inserter egg holder and track number in case the egg is still present.

Contact Sanovo if the situation is persisting

Subnumber description:

Subnumber1	Error
1	lost an egg
2	still holds an egg
3	cup is misaligned

W055: SERIAL I/O ERROR WITH LANE

Active	Type	Category	Mode
No	Warning	System	R_O

Description:

There is a communication problem with the affected lane. This may result in problems with dropping the eggs.

Solution:

Check the cables to the affected lane and if this doesn't solve the problem contact the Sanovo Service Department.

Subnumber description:

lane number

Grader Errors and Warnings

W057: EGG COUNTING IS FINISHED ON LANE

Active	Type	Category	Mode
Yes	Error	Operator	R_A_D

Description:

The egg counter has reached the value which was set by the user. The machine stopped dropping eggs on the applicable lane.

Solution:

No solution available.

Subnumber description:

lane number

E058: GRADER STOPPED, EGG COUNTING IS FINISHED, BY LANE

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

The grader is stopped because the egg counter has reached the value which was set by the user for the applicable lane.

Solution:

No solution available.

Subnumber description:

lane number

W064: Reservoir belt inhibit lane %d1

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The egg reservoir belt of the specified lane has been blocked by it's downstream.

Grader Errors and Warnings

Solution:

Remove the (externally) downstream blockage and start the grader

Subnumber description:

no subnumber

E065: CANCOM ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

A software problem has occurred in the CAN or EtherCAT communication.

Solution:

Check all the CAN and EtherCAT cables or contact the Sanovo Service Department.

Subnumber description:

- 0 - CAN_OK- No error
- 1 - CAN_NOT_OK- Not OK (not init)
- 2 - CAN_PROGRAM_ERROR- Object setup error
- 4 - CAN_NET_PROBLEMS- Problems (errors on net)
- 16 - CAN_OFF_NET- Switched off net
- 32 - CAN_UNKNOWN_ERROR- Unknown error

W066: EGG RESERVOIR FULL AT DROPGATE (REROUTING)

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The egg reservoir of the specified drop gate is full.

Solution:

Empty the reservoir or remove the blockage eggs will be rerouted

Subnumber description:

no subnumber

Grader Errors and Warnings

W067: EGG RESERVOIR ALMOST FULL AT WHOLE EGG OUTLET

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The egg reservoir of the specified whole egg outlet is almost full.

Solution:

Empty the reservoir or remove the blockage and start the grader

Subnumber description:

no subnumber

W068: EGG RESERVOIR FULL AT DROPGATE

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The egg reservoir of the specified drop gate is full.

Solution:

Empty the reservoir or remove the blockage and start the grader

Subnumber description:

no subnumber

W069: EGG RESERVOIR FULL AT WHOLE EGG OUTLET

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The egg reservoir of the specified whole egg outlet is full.

Grader Errors and Warnings

Solution:

Empty the reservoir or remove the blockage and start the grader

Subnumber description:

no subnumber

E070: HMI ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

A software problem has occurred in controlling the HMI, the Human Machine Interface.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

3: Wrong zone or category number in decrease manual count data

5: Wrong zone or CASE number in processing of end of zone key

W071: INKJET DISABLED

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

Inkjet is disabled on indicated track.

Solution:**Subnumber description:**

No subnumbers defined.

Grader Errors and Warnings

W072: GRADER STOPPED BY OFF PUSHBUTTON

Active	Type	Category	Mode
Yes	Warning	Operator	R_O

Description:

The operator has stopped the grader by pressing the OFF push-button or using the PC.

Solution:

After pressing the ON/RESET button the grader will start again and the error message will be cleared.

Subnumber description:

No subnumbers defined.

E075: MCP CLOCK NOT UP TO DATE

Active	Type	Category	Mode
No	Error	Machine	R_O

Description:

The internal clock of the MCP does not indicate the same time as the PC clock.

Solution:

The PC will automatically send the correct time to the MCP and the error message will be cleared.

Subnumber description:

No subnumbers defined.

W076: MCP CLOCK NOT UP TO DATE AT MIDNIGHT

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

The internal clock of the MCP does not indicate the same time as the PC clock.

Grader Errors and Warnings

Solution:

The PC will automatically send the correct time to the MCP and the error message will be cleared.

Subnumber description:

No subnumbers defined.

W077: ERROR QUEUE OVERFLOW

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

The maximum number of errors is queued. Last error will be overwritten.

Solution:

No action required. If this error message reappears, contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

E081: LOAD GRADING PROGRAM ERROR

Active	Type	Category	Mode
Yes OPTIGRADER	Error	Machine	R_A_D
No GRADERPRO			

Description:

The PC did not succeed in loading a new grading program into the machine.

Solution:

Try several times to load the grading program. If you have no success, contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E082: LOAD FACTORY GRADE PROGRAM ERROR

Active	Type	Category	Mode
Yes OPTIGRADER	Error	Machine	R_A_D
No GRADERPRO			

Description:

The PC did not succeed in loading the factory grading program into the machine.

Solution:

Make several attempts to load a normal grading program. If you have no success, contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

E083: MCP NVRAM: FACTORY SETTINGS LOADED NR

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The machine has been set to the factory settings, because there is an error in the NVRAM memory. This also happens after the MCP was loaded with new control software. N.B. this is not the grading program, but the software that controls the machine.

Solution:

When this error occurs, check or set the following settings using the PC:

- Load a new grading program into the machine.
- Make the right settings in the "system-settings" menu

Subnumber description:

NVRAM status:

19: Egg pointers

21-23: Zone 1/2/3 info

24-26: Zone 1/2/3 data

27-29: Zone 1/2/3 limit data

30: Sort program

50: Persistent data not present or invalid

51: Last grader state restored.

52: Last grader state only partially restored

52: Last grader state only partially restored.

Grader Errors and Warnings

53: Last grader state not restored. [101] Backup data loaded!
 53: Last grader state not restored. [102] Factory defaults loaded!

W084: PERSISTENT DATA BACKUP LOADED

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The persistent data backup is loaded

Solution:

Check all settings and correct them if needed

Subnumber description:

No subnumbers defined.

W085: GRADER SETTINGS WARNING

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

Description:

There is a warning during the manually saving or restoring of the grader settings

Solution:

Check all settings and correct them if needed

Subnumber description:

- 10: Warning - XML server not active
- 11: Warning - File or directory not found
- 12: Warning - XML server problem
- 20: Warning - Data version mismatch
- 22: Warning - Grader not stopped
- 99: Warning - Unknown problem

W086: UPS WARNING

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

 Grader Errors and Warnings

Description:

There is a warning concerning the UPS.

Solution:**Subnumber description:**

Subnumber	Error
1	Replace battery
2	UPS communication failure
3	Battery status unknown
4	Communication with Windows UPS service failed

W087: NOVRAM

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

Description:

Warnings concerning the non volatile RAM operations.

Solution:**Subnumber description:**

Subnumber	Error OPTIGRADER	Error GRADERPRO
1	Version number is changed	Version mismatch
2	Error during read action	Persistent data lost
3	Error during write action	Wrong product code
4	Time out while reading	Wrong vendor ID
5	Time out while writing	Data invalid
6	Data size too big	Write error
7	WC-state is active, data is invalid	Read error
8		Write time out
9		Read time out

 Grader Errors and Warnings

E090: GRADER ERROR

Active	Type	Category	Mode
Yes OPTIGRADER	Error	System	R_A_D
No GRADERPRO			

Description:

A software problem has occurred in controlling the grader.

Solution:

Press the ON/RESET button to clear the error messages and restart the machine. If the error message keeps reappearing, contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error	Description
1	Software error in grader	Wrong CASE in Grader handler
2	Encoder missing pulses	No encoder pulses are seen. Please check encoder and connections.
3	Encoder turning backwards	Machine is moving backwards. Please check encoder and connections.
4	Software encoder in wrong position	Software encoder value and real encoder value are not in sync. Please check encoder and connections.
5	Encoder (controlmodule) problem, all eggs in the grader will be disposed	CamProc has detected an error condition.
6	Rehome done, all eggs in the grader will be disposed	A forced rehoming will cause all eggs in the grader to be disposed.

W091: DESTACKER ALARM

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

An error has occurred in the destacker/multiloader, which has stopped the grader.

Solution:

Correct the malfunction on the destacker/multiloader. The error message from the grader will be cleared automatically and the grader will start again.

Grader Errors and Warnings

Subnumber description:

No subnumbers defined.

W092: EXTERN ALARM

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

A external device stopped the grader.

Solution:

Correct the malfunction of the external device. The error message from the grader will be cleared automatically and the grader can be started again.

Subnumber description:

No subnumbers defined.

W093: RESERVOIR BELT MOTOR NOT RUNNING

Active	Type	Category	Mode
Yes OPTIGRADER	Warning	Machine	R_A_D
No GRADERPRO			

Description:

The machine will not start or has stopped because the egg interception belts are switched off.

Solution:

The error message will be cleared automatically after the belt has been switched on. If there are no other error messages, the machine will start again after pressing the ON/RESET push-button.

Subnumber description:

drive id

 Grader Errors and Warnings

W094: STRAIGHT ON BELT MOTOR NOT RUNNING

Active	Type	Category	Mode
Yes OPTIGRADER	Warning	Machine	R_O
No GRADERPRO			

Description:

The machine will not start or has stopped because the optional belt / straight on belt is switched off.

Solution:

The error message will be cleared automatically after the belt has been switched on. If there are no other error messages, the machine will start again after pressing the ON/RESET push-button.

Subnumber description:

drive id

E095: GRADER STOP ERROR

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

When the machine was stopped, it did not stop at the correct timing.

Solution:

Check the grader and make sure that the grader is not blocked in any way. Then press the ON/RESET push-button to clear the error message. The machine will now move to the correct stop position at inching speed. If this is not successful and another error message appears, contact the Sanovo Service Department.

Subnumber description:

- 1: Transport is not in the stop position
- 2: Homing Sensor not working right
- 3: Stop position is not reached. Check the encoder electrical connections or mechanical mounting.

W096: PRESSURE CONTROL ACTIVATED FOR EJECT STATION

Active	Type	Category	Mode
Yes	Error	Machine	R_O

Grader Errors and Warnings

Description:

The number of eggs that are presently at the affected eject station has reached the maximum. The grader needs to stop to prevent cracking.

Solution:

As soon as the packer has removed enough eggs, the error message will be cleared automatically and the grader will start again.

Subnumber description:

Subnumber	Error
1	Egg reservoir full; lane <x>
2	Egg buffer full; lane <x>
3	Egg buffer not available; lane <x>
11	- U/O
12	track disabled <y>
13	track <y>

W097: MAXIMUM SPEED EXCEEDED

Active	Type	Category	Mode
Yes OPTIGRADER	Warning	Machine	R_A_D
No GRADERPRO			

Description:

The grader has exceeded its speed limit. The grader will stop and restart after a 2 second pause. If the speed limit is exceeded again, the grader will stop again.

Solution:

Lower the grader speed until the error message stops appearing, either using the PC or by adjusting the frequency control unit. If the error message keeps reappearing, contact the Sanovo Service Department.

Subnumber description:

No subnumbers defined.

 Grader Errors and Warnings

W098: REROUTING ACTIVATED FOR EJECT STATION

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

The number of eggs that are presently at the affected eject station has reached the maximum. The grader has stopped sending more eggs to this station.

Solution:

As soon as the packer has removed enough eggs, the error message will be cleared automatically and the grader will start sending eggs to this station again.

Subnumber description:

lane number

E099: SAFETY SWITCH ACTIVATED

Active	Type	Category	Mode
Yes	Error	Operator	R_A_D

Description:

One of the safety switches has been activated. All motors will be stopped, and various error messages will appear because of aborted procedures.

Solution:

Correct the problem that was the reason for activating the safety switch. To reset the safety switch error, close all covers and doors of the grader equipped with safety switches!. Press the ON/RESET button to clear the error messages and restart the machine.

Subnumber description:

Subnumber	Error
1	Inserter frontside
2	Transporter left front
3	Inserter backside
4	Transporter left back
5	Transporter

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Subnumber	Error
6	Transporter right front
7	Rejector belt
8	Transporter right back
9	Transporter brushes
10	Orientator left back
11	Blood detector
12	Orientator right back
13	Roller cleaner
14	Cup conveyor
15	Leaker Detector
16	Blood detector
17	Drip tray main track
18	Drip tray main frame
19	Drip tray orientator
20	Inspection area
21	Dropgate 2
22	Dropgate 3
23	Dropgate 4
24	Blood eggs outlet
25	Air/Oil unit
26	Orientator left front
27	Orientator right front
28	Tunnel main frame left
29	Tunnel main frame right
30	Maintenance door, left side
31	Maintenance door, right side
32	Combined orientator- and transporter cover
33	UVC Infeed
34	UVC Transporter
35	Front side of tunnel
36	Transporter Front
37	Transporter Back
38	Orientator
39	Blower service door
40	Top Inkjet cover

Grader Errors and Warnings

Subnumber	Error
46	End release belt drip tray
47	End release belt
48	Rear end of tunnel left
49	Rear end of tunnel right
50	Rear end funnel
51	Breaker outlet 1/2
52	Breaker outlet 3/4
53	Breaker outlet 5/6
54	Breaker outlet 7/8
55	Breaker outlet 9/10
56	Breaker outlet 11/12
57	Breaker outlet 13/14
58	Breaker outlet 15/16
59	Breaker outlet 17/18
60	Breaker outlet 19/20
61	Breaker outlet 21/22
62	Breaker outlet 23/24
63	Breaker outlet 25/26
64	Breaker outlet 27/28
65	Breaker outlet 29/30
66	Breaker outlet 31/32
254	Channels partially activated
255	Main safety relais

E100: EMERGENCY SWITCH PRESSED

Active	Type	Category	Mode
Yes	Error	Operator	R_A_D

Description: One or more emergency stops have been pressed. All motors will be stopped, and various error messages will appear because of aborted procedures.

Solution:

Correct the problem that was the reason for pressing the emergency stop. Only then the emergency stop may be released. To reset the emergency switch relay, hold down the OFF push-button and press the ON/RESET push-

Grader Errors and Warnings

button once. This will restore power to all lanes and motors. Press the ON/RESET button several times to clear the error messages and restart the machine.

Subnumber description:

Subnumber	Error
1	Main control panel
3	Loader
5	Control panel 1
7	Control panel 2
9	Control panel 3
11	Control panel 4
13	Accumulator
25	Lane 1/2 denester side
26	Lane 1/2
27	Lane 3/4 denester side
28	Lane 3/4
29	Lane 5/6 denester side
30	Lane 5/6
31	Lane 7/8 denester side
32	Lane 7/8
33	Lane 9/10 denester side
34	Lane 9/10
35	Lane 11/12 denester side
36	Lane 11/12
37	Lane 13/14 denester side
38	Lane 13/14
39	Lane 15/16 denester side
40	Lane 15/16
41	Lane 17/18 denester side
42	Lane 17/18
43	Lane 19/20 denester side
44	Lane 19/20
45	Lane 21/22 denester side
46	Lane 21/22
47	Lane 23/24 denester side
48	Lane 23/24

Grader Errors and Warnings

Subnumber	Error
49	Lane 25/26 denester side
50	Lane 25/26
51	Lane 27/28 denester side
52	Lane 27/28
53	Lane 29/30 denester side
54	Lane 29/30
55	Lane 31/32 denester side
56	Lane 31/32
59	Last two lanes denester side
60	Last two Lanes
254	Channels partially activated
255	Main emergency relais

E101: 24 AND/OR 28V NOT PRESENT

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The 24 and or 28 Volt power supply is down.

Solution:

Check the fuses in the 24 and or 28 Volt power supply.

Subnumber description:

Subnumber	Error
1	Detected by CX UPS
2	At 24 V power distribution
3	At 28 V power distribution

E102: OVERLOAD ALARM

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Grader Errors and Warnings

Description:

The overload alarm of one or more motors has been activated.

Solution:

Check the affected motor for defects and make sure it is not blocked in any way. Correct any problems and reset the overload alarm of the affected motor. If the overload alarm is activated again when the motor is restarted, contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	Main cabinet
40	Dropgate <x> brush
47	Rejector belt
50	Roller cleaner <x>
81	Rerun belt
90	Accumulator
100	Reservoir belt lane <x>
110	Whole egg outlet belt <x>

E103: CIP OVERLOAD ALARM

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The overload alarm of a CIP component has been activated.

Solution:

Check the affected motor for defects and make sure it is not blocked in any way. Correct any problems and reset the overload alarm of the affected motor. If the overload alarm is activated again when the motor is restarted, contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	CIP pump <x>

Grader Errors and Warnings

Subnumber	Error
2	CIP return pump <x>
3	CIP air blower <x>

E104: CIP ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

A CIP component reports an error

Solution:

Subnumber description:

Subnumber	Error
11	basket closer not activated

E105: PRESSURE-AIR NOT PRESENT

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The Pressure-air is not present.

Solution:

Check the Pressure-air circuit and the pressure-air-present sensor.

Subnumber description:

No subnumbers defined.

W106: LUBRICATION SYSTEM: LOW OIL LEVEL

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Grader Errors and Warnings

Description:

The lubrication system reports a low oil level.

Solution:

Refill the lubrication system.

Subnumber description:

No subnumbers defined.

W107: LUBRICATION SYSTEM: OIL PRESSURE NOT REACHED

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

The lubrication system reports problems with the oil pressure.

Solution:

Check all the oil hoses and the lubrication pump.

Subnumber description:

No subnumbers defined.

W108: CIP WATERTANK ERROR

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

There is a problem with the CIP watertank.

Solution:

Check all the CIP plumbing and the CIP pump.

 Grader Errors and Warnings

Subnumber description:

Subnumber	Error
1	level too low to start the CIP-cycle
2	level too low to continue the CIP-cycle
3	needs to be drained before next CIP-cycle can commence

W109: CIP PHASE

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

Warnings concerning a CIP phase.

Solution:

NA

Subnumber description:

Subnumber	Error
1	started
2	stopped

E110: STOPPED BY PC

Active	Type	Category	Mode
Yes	Warning	Operator	R_O

Description:

The grader has been stopped by the PC (i.e. for calibration).

Solution:

When the PC has released the grader, it can be restarted by pressing the ON/RESET push-button.

Subnumber description:

No subnumbers defined.

 Grader Errors and Warnings

W111: HALTED BY PC

Active	Type	Category	Mode
Yes	Warning	Operator	R_O

Description:

The grader has been temporarily halted by the PC.

There are a couple of actions in EGG-it Touch which need the machine to stop:

- Editing a Supplier Batch from the supplier batch list screen
- Calibration/Testing of a Loadcell
- Storing of the Grader Settings

Solution:

When the PC has released the grader, it will automatically start again.

Subnumber description:

No subnumbers defined.

E112: RESET PC BY MCP

Active	Type	Category	Mode
Yes OPTIGRADER	Error	Operator	R_A_D
No GRADERPRO			

Description:

The MCP has been reset and has reported this to the PC.

Solution:

The PC will now load the necessary information from the MCP. This error message does not require any actions.

Subnumber description:

No subnumbers defined.

E113: EGGitTouch SERVICE MODE ACTIVE

Active	Type	Category	Mode
Yes OPTIGRADER	Error	Operator	R_O

Grader Errors and Warnings

Active	Type	Category	Mode
No GRADERPRO			

Description:

The PC program was started in service mode.

Solution:

This message will be logged to report to the Sanovo mechanic that the service mode has been used.

Subnumber description:

No subnumbers defined.

W114: GRADER SERVICE MODE ACTIVE

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

ATTENTION: THE SAFETY SWITCHES ARE NOT WORKING IN THE GRADER SERVICE MODE. The grader is in service mode. While the grader is in the service mode the grader can only be inched with the turtle button. Also is it possible to open the safety-covers. While the grader service mode is active the buzzer will give a bleep every 2,5 sec.

Solution:

Switch the grader to normal mode to start running.

Subnumber description:

No subnumbers defined.

W115: GRADER CIP OPERATION MODE ACTIVE

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

The grader CIP operation mode is active.

Grader Errors and Warnings

Solution:

Follow the instructions according the applicable CIP phases in the CIP screen.

Subnumber description:

No subnumbers defined.

E116: DRIVE ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

There was an error with a drive.

Solution:

Try several times to restart the machine. If you have no success, contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	main motor
2	infeed
3	transporter motor
11	reservoir belts
21	drop brush 1
22	drop brush 2
23	drop brush 3
41	dropgate 1 brush
42	dropgate 1 belt
43	dropgate 2 brush
44	dropgate 2 belt
45	dropgate 3 brush
46	dropgate 3 belt
47	dropgate 4 brush
48	dropgate 4 belt
49	dropgate 4 extension belt

Grader Errors and Warnings

Subnumber	Error
51	roller cleaner 1
52	roller cleaner 2
53	roller cleaner 3
61	accumulator backside
62	accumulator frontside
65	accumulator front
66	accumulator middle
67	accumulator back 1
68	accumulator back 2
69	accumulator back 3
71	pre accumulator
81	rerun belt
116	Parameter programming error
117	Overload or trip
118	No main power present
119	Unknown state
120	Not running
121	Enable in wrong state
122	Enable feedback timeout

W117: NOVRAM ERROR

Active	Type	Category	Mode
No OPTIGRADER	Error	System	R_A_D
Yes GRADERPRO			

Description:

Reading of the NOVRAM encountered an error

Solution:

Try manually reading the NOVRAM via the Machine control web HMI. If you have no success, contact the Sanovo Service Department.

 Grader Errors and Warnings

Subnumber description:

Subnumber	Error
1	Version mismatch
2	Persistent data lost
3	Wrong product code
4	Wrong vendor ID

W120: CIP WARNING PLEASE REMOVE INKJET HEADS

Active	Type	Category	Mode
No OPTIGRADER	Error <i>*Shown as Warning</i>	Operator	R_A_D
Yes GRADERPRO			

Description:

When CIP mode is activated and the grader has an Inkjet system, then a warning message is shown to remember to remove the inkjet heads.

Solution:

Remember to remove the inkjet heads when running a CIP cycle.

Subnumber description:

None

E121: BATCH DATA NOT ENTERED FOR ZONE

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

The batch data of the affected zone have not been entered yet and, since the batch has been closed by pressing the SWITCH BATCH push-button, the machine will stop.

Solution:

Enter the batch data on the PC and press the ON/RESET push-button twice to clear the error message and restart the machine.

Grader Errors and Warnings

Subnumber description:

zone

W122: TICKET DATA NOT ENTERED FOR ZONE

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

The ticket data of the affected zone have not been entered yet and, since the batch has been closed by pressing the SWITCH BATCH push-button, the machine will stop.

Solution:

Enter the ticket data on the PC and press the ON/RESET push-button twice to clear the error message and restart the machine.

Subnumber description:

zone

W123: BATCH DATA NOT SENT FROM ZONE

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The SWITCH BATCH push-button has been pressed to close a batch, but the data of the previous batch has not been sent to the PC yet.

Solution:

The error message will automatically cause the PC to load and store the data of the previous batch. The PC will then load the data of the batch which has just been closed. If any problems occur, contact the Sanovo Service Department.

Subnumber description:

The provided subnumber is the zone number

Grader Errors and Warnings

W124: INKJET STAT DATA NOT PROCESSED

Active	Type	Category	Mode
Yes	Error	Operator	R_A_D

Description:

EGGitTouch is not processing the request of the grader to change the STAT information in the egg inkjet printers.
The grader can not continue, since it might result in wrong printed eggs.

Solution:

Either start or restart EGGitTouch to fix the issue.
The capacity of the pc that is running EGGitTouch, could be overloaded. Removing programs of the pc or restarting the entire pc might fix the problem.

Subnumber description:

No subnumbers defined.

E125: CAPACITY DATA NEEDS TO BE CLEARED

Active	Type	Category	Mode
Yes OPTIGRADER	Error	Operator	R_A_D
No GRADERPRO			

Description:

The capacity data reached it's maximum count.

Solution:

Reset the counters by using the EGGitTouch PC.

Subnumber description:

No subnumbers defined.

W126: INDIVIDUAL EGG DATA OVERFLOW

Active	Type	Category	Mode
Yes	Error	Operator	R_A_D

Grader Errors and Warnings

Description:

This warning is raised when individual egg data tracking is selected and the last buffer entry was just filled, meaning there is no room left.

Solution:**Subnumber description:**

No subnumbers defined.

**W127: LUBRICATION SYSTEM: NOT PERFORMED FOR A PERIOD,
PLEASE PERFORM LUBRICATION**

Active	Type	Category	Mode
Yes	Warning	Operator	R_A_D

Description:

This warning is generated when the lubrication system is not started for a defined period, while the machine was running in production or in cip.

Solution:**Subnumber description:**

No subnumbers defined.

E130: EGG-IT TRACE ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

A software problem has occurred in the control of EGG-IT TRACE.

Solution:

Contact the Sanovo Service Department.

Grader Errors and Warnings

Subnumber description:

Subnumber	Error
1	Software error
2	Waiting for batch data
3	Maximum activated batches reached

W131: EGG-IT TRACE: WAITING FOR NEW SUPPLIER ZONE 1

Active	Type	Category	Mode
No	Warning	Operator	R_A_D

Description:

The batch-data of the zone are not available for the EGG-it TRACE system, while the batch had already been closed by the switch pawl.

Solution:

Enter the batch-data in the EGG-it TRACE PC and remove the error by pushing on the ON/RESET button. By pushing the ON/RESET button once again, the machine will restart.

Subnumber description:

No subnumbers defined.

W132: EGG-IT TRACE: WAITING FOR NEW SUPPLIER ZONE 2

Active	Type	Category	Mode
No	Warning	Operator	R_A_D

Description:

The batch-data of the zone are not available for the EGG-it TRACE system, while the batch had already been closed by the switch pawl.

Solution:

Enter the batch-data in the EGG-it TRACE PC and remove the error by pushing on the ON/RESET button. By pushing the ON/RESET button once again, the machine will restart.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E133: EGG-IT TRACE: COM ERROR WITH IO DLP

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

An error had occurred in the communication between the MCP and the IO DLP.

Solution:

Check the CAN cables between the MCP and the IO DLP. Check the IO DLP power supply and the functioning of the IO DLP as indicated by the diagnose.

Subnumber description:

No subnumbers defined.

E134: EGG-IT TRACE: LOADER IO ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The switch pawl is not being signalled by the proximity switches. Check if the switch pawl is in one of the uppermost positions

Solution:

If this is the case than check if the proximity switches are functioning correctly. P.S. This IO-check can be temporarily switched off in menu 1.3.

Subnumber description:

No subnumbers defined.

W135: EGG-IT TRACE: LANE COUNT DATA MEMORY FULL

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

Description:

There is not enough memory available for writing down the data.

Grader Errors and Warnings

Solution:

Contact the Sanovo Service Department.

Subnumber description:

lane number

E136: STOPPED BECAUSE SUPPLIER CHANGED

Active	Type	Category	Mode
Yes	Error	Operator	R_A_D

Description:

Grader is stopped because supplier changed.

Solution:

No solution available.

Subnumber description:

zone number

W137: EGG-IT TRACE: STOPPED BECAUSE SUPPLIER DATE CHANGED

Active	Type	Category	Mode
No	Warning	Operator	R_A_D

Description:

No description available.

Solution:

No solution available.

Subnumber description:

zone number

 Grader Errors and Warnings

E140: DDP: COM ERRORS, SYSTEM

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The communication with the DDP's has not been finished yet, while new communication has already started.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	Communication problem
10	Result counter mismatch
40	Too far behind while stopped
50	Too far behind while running
60	Too long behind while running
70	Unexpected result

W141: DDP: NOT IN READY MODE, SYSTEM

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

The dirt detector is not in the ready mode

Solution:

Fix the warning/failure at the dirt detection system, push the ON-button to reset the error and restart the grader.

Subnumber description:

1-3: System id

Grader Errors and Warnings

W142: DDP: WARNING, SYSTEM

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

The dirt detector has a warning

Solution:

Fix the warning/failure at the dirt detection system, push the ON-button to reset the error and restart the grader.

Subnumber description:

1-3: System id

E143: DDP: ERROR, SYSTEM

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The dirt detector has an error

Solution:

Fix the warning/failure at the dirt detection system, push the ON-button to reset the error and restart the grader.

Subnumber description:

1-3: System id

21-23: Error Status

100: Dirt light temperature too high

E144: LDP: COM ERRORS, SYSTEM

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The communication with the LDP's has not been finished yet, while new communication has already started.

Grader Errors and Warnings

Solution:

Contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
10	Result counter mismatch
40	Too far behind while stopped
50	Too far behind while running
60	Too long behind while running
70	Unexpected result

W145: LDP: NOT IN READY MODE, SYSTEM

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

The leaker detector is not in the ready mode

Solution:

Fix the warning/failure at theleaker detection system, push the ON-button to reset the error and restart the grader.

Subnumber description:

1-3: System id

W146: LDP: WARNING, SYSTEM

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

The leaker detector has a warning

Solution:

Fix the warning/failure at the leaker detection system, push the ON-button to reset the error and restart the grader.

Grader Errors and Warnings

Subnumber description:

1-6: System id

E147: LDP: ERROR, SYSTEM

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The leaker detector has an error

Solution:

Fix the warning/failure at the leaker detection system, push the ON-button to reset the error and restart the grader.

Subnumber description:

Subnumber	Error
20	Look at the PC screen
110	Safety relais
111	Cover left side open
112	Cover right side open
113	Lasers in safe mode
114	Cover left side laser block open
115	Cover left side leaker cabinet open
116	Cover right side laser block open
117	Cover right side leaker cabinet open

W148: DDP: ILLEGAL TIMING WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The dirt detector has a wrong timing setting.

Solution:

Contact the Sanovo Service Department.

Grader Errors and Warnings

Subnumber description:

Subnumber	Error
1	Not allowed between 250 and 290
2	Not allowed between 130 and 170
101	
102	2

W149: LDP: ILLEGAL TIMING WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The dirt detector has a wrong timing setting.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	Not allowed between 250 and 290
2	Not allowed between 130 and 170
101	
102	2

E150: IRUS: COMMUNICATION ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The communication with the IRUS system has not been finished yet, while new communication has already started.

Solution:

No solution available.

Grader Errors and Warnings

Subnumber description:

No subnumbers defined.

E151: IRUS: NOT READY ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The IRUS system is not in the ready mode

Solution:

No solution available.

Subnumber description:

No subnumbers defined.

W152: IRUS: WARNING

Active	Type	Category	Mode
No	Warning	System	R_O

Description:

The IRUS system has a warning

Solution:

No solution available.

Subnumber description:

No subnumbers defined.

E153: IRUS: ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Grader Errors and Warnings

Description:

The IRUS system has an error

Solution:

No solution available.

Subnumber description:

No subnumbers defined.

W155: BLOOD: WARNING

Active	Type	Category	Mode
No	Warning	System	R_O

Description:

The communication with the system has not been finished yet, while new communication has already started.

Solution:

No solution available.

Subnumber description:

No subnumbers defined.

E156: BLOOD: ERROR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

The BLOOD system is not in the ready mode

Solution:

No solution available.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

W157: TOP INKJET DISABLED

Active	Type	Category	Mode
No OPTIGRADER	Warning	Operator	R_A_D
Yes GRADERPRO			

Description:

Inkjet is disabled on indicated track.

Solution:

Subnumber description:

No subnumbers defined.

W158: TOP INKJET WARNING, SYSTEM NR

Active	Type	Category	Mode
No OPTIGRADER	Warning	Machine	R_A_D
Yes GRADERPRO			

Description:

One of the inkjet systems has a warning.

Solution:

Check the applicable inkjet system

Subnumber description:

Inkjet System nr.

E159: TOP INKJET ALARM, SYSTEM NR

Active	Type	Category	Mode
No OPTIGRADER	Warning	Machine	R_A_D
Yes GRADERPRO			

Grader Errors and Warnings

Description:

One of the inkjet systems has an error.

Solution:

Check the applicable inkjet system

Subnumber description:

Inkjet System nr.

E160: ETHERCAT: SYSTEM MANAGER CONFIGURATION MISMATCH

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

There is a mismatch between the configured configuration and the actual configuration of the EtherCAT communication bus.

Solution:

Check all the EtherCAT modules and 24 Volt supplies.

Subnumber description:

EtherCAT slave id

E161: ETHERCAT: NR OF SLAVES MISSING

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There are EtherCAT slaves missing in the actual configuration.

Solution:

Check all the EtherCAT modules and 24 Volt supplies.

Grader Errors and Warnings

Subnumber description:

Nr. Of slaves missing

E162: ETHERCAT: SLAVE NOT IN OPERATION MODE

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

One or more EtherCAT modules are not in the operational state.

Solution:

Check all the EtherCAT modules and 24 Volt supplies.

Subnumber description:

EtherCAT slave id

E163: ETHERCAT: ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

There is an EtherCAT problem.

Solution:

Check all the EtherCAT modules and 24 Volt supplies.

Subnumber description:

Subnumber	Error
1	Communication problem with device <x>
2	Device <x> communication problem with next device

Grader Errors and Warnings

E170: INSERTER: AX5000 ERRORS

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

No description available.

Solution:

No solution available.

Subnumber description:

No subnumbers defined.

W171: PRE-INFEED HOMING BUSY

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The grader performs the pre-infeed homing cycles.

Solution:

NA.

Subnumber description:

No subnumbers defined.

W172: INFEED HOMING BUSY

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The grader performs the infeed homing cycles.

Solution:

NA.

Grader Errors and Warnings

Subnumber description:

No subnumbers defined.

W173: GRADER HOMING BUSY

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The grader performs some homing cycles.

Solution:

NA.

Subnumber description:

No subnumbers defined.

W174: TRANSPORTER HOMING BUSY

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The grader performs the transporter homing cycles.

Solution:

NA.

Subnumber description:

No subnumbers defined.

W175: CUP CONVEYOR HOMING BUSY

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The grader performs some cup conveyor homing cycles.

Grader Errors and Warnings

Solution:

NA.

Subnumber description:

No subnumbers defined.

W176: INSERTER HOMING BUSY

Active	Type	Category	Mode
No	Warning	System	R_A_D

Description:

The grader performs some inserter homing cycles.

Solution:

NA.

Subnumber description:

No subnumbers defined.

E180: BALLISTIC COMPENSATION ERROR

Active	Type	Category	Mode
Yes OPTIGRADER	Error	System	R_A_D
No GRADERPRO			

Description:

An error occurred at the Ballistic Compensation

Solution:

Check all power and communication connections and check if the axis is not blocked mechanically.

Subnumber description:

Subnumber 1	Description	
10	Virtual axis	

 Grader Errors and Warnings

11	Master axis	
12	Slave axis	
13	Axis	
Subnumber 2	Error	Bug?! Should be:
182	Following error	
186	Min or max pos reached	NC-axis has lost homed status
190	Unable to program drive parameters	

E181: AXIS ERROR FROM NC TASK

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The Beckhoff NC task reported an error for an axis.

Solution:

Check all power and communication connections and check if the axis is not blocked mechanically.

Subnumber description:

Subnumber 1	Description
1	Cyclic Axis
2	Wobble Axis
10	BalComp Virtual Axis
13	BalComp Yaskawa Axis
14	BalComp EL7342-A Axis
15	BalComp EL7342-B Axis
21	Infeed Axis
22	Transporter Axis
23	Cupconveyor Axis
24	Inserter Axis
18	MAIN_TRACK
19	VIRTUAL_MASTER

Grader Errors and Warnings

30	VIRTUAL_MASTER_1,	
31	VIRTUAL_WOBBLE_1	
32	INSERTER_1	
33	VIRTUAL_CUP_CONVEYOR_BAL_COMP_1	
34	CUP_CONVEYOR_BAL_COMP_1	
35	CUP_CONVEYOR_1	
36	TRANSPORTER_1	
37	INFEED_TABLE_1	
38	INFEED_TABLE_EXTENSION_1	
50	VIRTUAL_MASTER_2	
51	VIRTUAL_WOBBLE_2	
52	INSERTER_2	
53	VIRTUAL_CUP_CONVEYOR_BAL_COMP_2	
54	CUP_CONVEYOR_BAL_COMP_2	
55	CUP_CONVEYOR_2	
56	TRANSPORTER_2	
57	INFEED_TABLE_2	
58	INFEED_TABLE_EXTENSION_2	
Subnumber 2	Error	Description
101	No power or not ready	
102	Following error	
103	Overheated	
104	EtherCAT problem	
105	Unknown error	
110	Error uncoupling	A call to MC-GearOut returned an error
111	Error stopping	A call to MC-Halt returned an error
112	Error finding home position	A call to MC-Home returned an error
113	Error moving slowly	A call to MC-Jog returned an error
114	Error moving to absolute position	A call to MC-MoveAbsolute returned an error
115	Error moving to modulo position	A call to MC-MoveModulo returned an error
116	Error moving to relative position	A call to MC-MoveRelative returned an error
117	Error enabling power	A call to MC-Power returned an error
118	Error reading actual position	A call to MC-ReadActualPosition returned an error
119	Error resetting	A call to MC-Reset returned an error
120	Error setting encoder direction	A call to MC-SetEncoderDirection returned an error

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121	Error setting encoder scaling factor	A call to MC-SetEncoderScalingFactor returned an error
122	Error setting motor direction	A call to MC-SetMotorDirection returned an error
123	Error setting position	A call to MC-SetPosition returned an error
124	Error stopping	A call to MC-Stop returned an error
130	Error uncoupling	A call to MC-CamOut returned an error
131	Error reading slave position	A call to MC-ReadCamTableSlaveDynamics returned an error
132	Error coupling	A call to MC-CamIn returned an error

W182: AXIS WARNING FROM PLC SOFTWARE

Active	Type	Category	Mode
Yes	Warning	System	R_A_D

Description:

The Grader software in the PLC reported a warning for an axis.

Solution:

Check all power and communication connections and check if the axis is not blocked mechanically.

Subnumber description:

Subnumber 1	Description	
XXX	See E181 for the explanation of the SubNumber 1	
Subnumber 2	Error	Description
101	Problem following master axis	The following error of the indicated axis exceeds the warning threshold. Check for jammed axis.
102	Axis busy homing	The axis is busy with moving to it's home position.
103	Writing parameters failed	The writing of parameters to the axis servo or frequency drive is failed.

E183: AXIS ERROR FROM PLC SOFTWARE

Active	Type	Category	Mode
Yes	Error	System	R_A_D

 Grader Errors and Warnings

Description:

The Grader software in the PLC reported an error for an axis.

Solution:

Check all power and communication connections and check if the axis is not blocked mechanically.

Subnumber description:

Subnumber 1	Description	
XXX	See E181 for the explanation of the SubNumber 1	
Subnumber 2	Error	Description
101	Unable to follow master axis	The following error of the indicated axis exceeds the error threshold. Check for jammed axis.
102	Unexpected decouple	Unexpected decouple of the axis. Check for manual intervention.

E184: MOTOR SYNCHRONIZATION MANAGER ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

The motor and servo synchronization manager reported an error.

Solution:

Check all power and communication connections and check if the axis is not blocked mechanically.

Subnumber description:

Subnumber 1	Description	
1	Main track	
2	Infeed system 1	
3	Infeed system 2	
Subnumber 2	Error	Description

Grader Errors and Warnings

11	Synchronization failed	One of the motor modules or the BalComp reports an error condition preventing the machine from starting.
12	Synchronization lost while running	A slave axis is no longer coupled to its master in a running machine. The machine cannot continue running.

E185: AXIS [#AxisNumber], <axis name>: [#YaskawaErrorMessage] (Repower drive needed!)

Active	Type	Category	Mode
No OPTIGRADER	Error	System	R_A_D
Yes GRADERPRO			

Description:

The Yaskawa Sigma 7 servo drive has an error message that could indicate that a repower of the servo drive is needed in order to be able to continue!

Solution:

Depending if a power cycle of the sigma 7 servo drive is needed, (do a power cycle of the designated servo drive and wait a few seconds before it is power up again then) push the ON-button to reset the error and restart the grader. If the situation is persisting, then Contact Sanovo.

Axis Number description:

Axis Number	Description
XXX	See E181 for the explanation of the Axis Number

Yaskawa Error message

Description Sigma 7 error code
EX185_101 = A.020 - Parameter Checksum Error
EX185_102 = A.021 - Parameter Format Error
EX185_103 = A.022 - System Checksum Error
EX185_104 = A.024 - System Alarm
EX185_105 = A.025 - System Alarm
EX185_106 = A.030 - Main Circuit Detector Error
EX185_107 = A.040 - Parameter Setting Error
EX185_108 = A.041 - Encoder Output Pulse Setting Error
EX185_109 = A.042 - Parameter Combination Error
EX185_110 = A.044 - Semi-Closed/Fully-Closed Loop Control Parameter Setting Error

Grader Errors and Warnings

Description Sigma 7 error code

EX185_111 = A.050 - Combination Error

EX185_112 = A.051 - Unsupported Device Alarm

EX185_113 = A.070 - Motor Type Change Detected

EX185_114 = A.080 - Linear Encoder Pitch Setting Error

EX185_115 = A.0b0 - Invalid Servo ON Command Alarm

EX185_116 = A.100 - Overcurrent Detected

EX185_117 = A.101 - Motor Overcurrent Detected

EX185_118 = A.231 - Built-in Brake Relay Answer Error

EX185_119 = A.232 - Built-in Brake Relay Life Alarm

EX185_120 = A.300 - Regeneration Error

EX185_121 = A.320 - Regenerative Overload

EX185_122 = A.330 - Main Circuit Power Supply Wiring Error

EX185_123 = A.400 - Overvoltage

EX185_124 = A.410 - Undervoltage

EX185_125 = A.450 - Main-Circuit Capacitor Overvoltage

EX185_126 = A.510 - Overspeed

EX185_127 = A.511 - Encoder Output Pulse Overspeed

EX185_128 = A.520 - Vibration Alarm

EX185_129 = A.521 - Autotuning Alarm

EX185_130 = A.550 - Maximum Speed Setting Error

EX185_131 = A.710 - Instantaneous Overload

EX185_132 = A.720 - Continuous Overload

EX185_133 = A.730 - Dynamic Brake Overload

EX185_134 = A.731 - Dynamic Brake Overload

EX185_135 = A.740 - Inrush Current Limitin Resistor Overload

EX185_136 = A.7A1 - Internal Temperature Error 1 (Control Board Temperature Error)

EX185_137 = A.7A2 - Internal Temperature Error 2 (Power Board Temperature Error)

EX185_138 = A.7A3 - Internal Temperature Sensor Error

EX185_139 = A.7A4 - Power Transistor Overheated

EX185_139 = A.7AB - SERVOPACK Built-in Fan Stopped

EX185_140 = A.810 - Encoder Backup Alarm

EX185_141 = A.820 - Encoder Checksum Alarm

EX185_142 = A.830 - Encoder Battery Alarm

EX185_143 = A.840 - Encoder Data Alarm

EX185_144 = A.850 - Encoder Overspeed

Grader Errors and Warnings

Description Sigma 7 error code

EX185_145 = A.860 - Encoder Overheated
EX185_146 = A.861 - Motor Overheated
EX185_147 = A.862 - Overheat Alarm
EX185_148 = A.890 - Encoder Scale Error
EX185_149 = A.891 - Encoder Module Error
EX185_150 = A.8A0 - External Encoder Error
EX185_151 = A.8A1 - Encoder Module Error
EX185_152 = A.8A2 - External Incremental Encoder Sensor Error
EX185_153 = A.8A3 - External Absolute Encoder Position Error
EX185_154 = A.8A5 - External Encoder Overspeed
EX185_155 = A.A10 - EtherCAT DC Synchronization Error
EX185_156 = A.A11 - EtherCAT State Error
EX185_157 = A.A12 - EtherCAT Outputs Data Synchronization Error
EX185_158 = A.A20 - Parameter Setting Error
EX185_159 = A.A40 - System Initialization Error
EX185_160 = A.A41 - Communication Device Initialization Error
EX185_161 = A.A47 - External Encoder Overheated
EX185_162 = A.A48 - EEPROM Parameter Data Error
EX185_156 = A.B33 - Current Detection Error 3
EX185_157 = A.BF0 - System Alarm 0
EX185_158 = A.BF1 - System Alarm 1
EX185_159 = A.BF2 - System Alarm 2
EX185_160 = A.BF3 - System Alarm 3
EX185_161 = A.BF4 - System Alarm 4
EX185_162 = A.BF5 - System Alarm 5
EX185_163 = A.BF6 - System Alarm 6
EX185_164 = A.BF7 - System Alarm 7
EX185_165 = A.BF8 - System Alarm 8
EX185_166 = A.C10 - Servomotor Out of Control
EX185_167 = A.C20 - Phase Detection Error
EX185_168 = A.C21 - Polarity Sensor Error
EX185_169 = A.C22 - Phase Information Disagreement
EX185_170 = A.C50 - Polarity Detection Failure
EX185_171 = A.C51 - Overtravel Detected during Polarity Detection
EX185_172 = A.C52 - Polarity Detection Not Completed

Grader Errors and Warnings

Description Sigma 7 error code

EX185_173 = A.C53 - Out of Range of Motion for Polarity Detection
EX185_174 = A.C54 - Polarity Detection Failure 2
EX185_175 = A.C80 - Encoder Clear Error or Multiturn Limit Setting Error
EX185_176 = A.C90 - Encoder Communications Error
EX185_177 = A.C91 - Encoder Communications Position Data Acceleration Rate Error
EX185_178 = A.C92 - Encoder Communications Timer Error
EX185_179 = A.CA0 - Encoder Parameter Error
EX185_180 = A.CB0 - Encoder Echoback Error
EX185_181 = A.CC0 - Multiturn Limit Disagreement
EX185_181 = A.CF1 - Reception Failed Error in Feedback Option Module Communications
EX185_182 = A.CF2 - Timer Stopped Error in Feedback Option Module Communications
EX185_183 = A.D00 - Position Deviation Overflow
EX185_184 = A.D01 - Position Deviation Overflow Alarm at Servo ON
EX185_185 = A.D02 - Position Deviation Overflow Alarm for Speed Limit at Servo ON
EX185_186 = A.D10 - Motor-Load Position Deviation Overflow
EX185_187 = A.D30 - Position Data Overflow
EX185_188 = A.E00 - EtherCAT Module Interface Initialization Timeout Error
EX185_189 = A.E02 - EtherCAT Internal Synchronization Error 1
EX185_190 = A.E03 - EtherCAT Module Interface Communications Data Error
EX185_191 = A.E71 - Safety Option Module Detection Failure
EX185_192 = A.E72 - Feedback Option Module Detection Failure
EX185_193 = A.E74 - Unsupported Safety Option Module Alarm
EX185_194 = A.E75 - Unsupported Feedback Option Module Alarm
EX185_195 = A.EA0 - Command-Option IF Servo Unit Initial Error
EX185_196 = A.EA1 - Command-Option IF Memory Check Error
EX185_197 = A.EA2 - Command-Option IF Servo Synchronization sError
EX185_198 = A.EA3 - Command-Option IF Servo Data Error
EX185_198 = A.EB1 - Safety Function Signal Input Timing Error
EX185_199 = A.EC8 - Gate Drive Error 1
EX185_200 = A.EC9 - Gate Drive Error 2
EX185_201 = A.ED1 - Command Execution Timeout
EX185_202 = A.F10 - Power Supply Line Open Phase
EX185_203 = A.F30 - Dynamic Brake Circuit Error
EX185_204 = A.F32 - Dynamic Brake Operation Request Output Signal Setting Error
EX185_205 = A.F50 - Servomotor Main Circuit Cable Disconnection

Grader Errors and Warnings

Description Sigma 7 error code

EX185_206 = A.900 - Position Deviation Overflow
 EX185_207 = A.901 - Position Deviation Overflow Alarm at Servo ON
 EX185_208 = A.910 - Overload
 EX185_209 = A.911 - Vibration
 EX185_210 = A.912 - Internal Temperature Warning 1 (Control Board Temperature Error)
 EX185_211 = A.913 - Internal Temperature Warning 2 (Power Board Temperature Error)
 EX185_212 = A.920 - Regenerative Overload
 EX185_213 = A.921 - Dynamic Brake Overload
 EX185_214 = A.923 - SERVOPACK Built-in Fan Stopped
 EX185_215 = A.930 - Absolute Encoder Battery Error
 EX185_216 = A.93B - Overheat Warning
 EX185_217 = A.942 - Speed Ripple Compensation Information Disagreement
 EX185_218 = A.971 - Undervoltage
 EX185_219 = A.9A0 - Overtravel
 EX185_220 = A.9B0 - Servomotor Main Circuit Cable Disconnection

Additional repower drive message

#Additional message number	Description
0	-
254	Repower drive needed!
255	Unknown Yaskawa Error!

W190: INFEED TABLE: FOREIGN OBJECT DETECTED

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

There is a foreign object detected at the infeed table.

Solution:

Check the infeed table and remove the foreign object if present.

Grader Errors and Warnings

Subnumber description:

No subnumbers defined.

E191: INFEED TABLE: FOREIGN OBJECT DETECTED

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The machine has stopped because there is a foreign object detected at the transfer from the infeed to the transporter.

Solution:

Check the transfer and remove the foreign object if present.

Subnumber description:

No subnumbers defined.

E192: INFEED TABLE: MECHANICAL OVERLOAD

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The machine has stopped because there is a mechanical overload detected at the infeed motor.

Solution:

Check if the infeed is mechanically blocked.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E193: TRANSPORTER: FOREIGN OBJECT DETECTED

Active	Type	Category	Mode
No	Error	Machine	R_A_D

Description:

The machine has stopped because there is a foreign object detected just before the inserter.

Solution:

Check the transfer and remove the foreign object if present.

Subnumber description:

No subnumbers defined.

E194: INFEED TABLE: MOTOR NOT RUNNING

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The infeed motor is not running when it should.

Solution:

Check the infeed motor.

Subnumber description:

No subnumbers defined.

W195: INKJET WARNING, SYSTEM NR

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

One of the inkjet systems has a warning.

Grader Errors and Warnings

Solution:

Check the applicable inkjet system

Subnumber description:

Inkjet System nr.

E196: INKJET ALARM, SYSTEM NR

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

One of the inkjet systems has an error.

Solution:

Check the applicable inkjet system

Subnumber description:

Inkjet System nr.

E197: Inkjet com problem:

Active	Type	Category	Mode
No	Error	Machine	R_A_D

Description:

There is a problem with the communication to the Inkjet system

Solution:

Check the applicable inkjet system and the connections.

Grader Errors and Warnings

Subnumber description:

Subnumber	Error
1	system nr <x>
2	Inkjet software not responding

E198: MAIN TRACK MECHANICAL OVERLOAD

Active	Type	Category	Mode
Yes	Error	Machine	R_A_D

Description:

The main track experiences mechanical overload.

Solution:

Check the main track.

Subnumber description:

Subnumber	Error
1	left side
2	right side
3	both sides

W199: UVC WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_A_D

Description:

The UVC unit signals a warning.

Solution:

Check the UVC unit.

Grader Errors and Warnings

Text number description:

Text number 1	Error
11	at infeed position
12	at transporter position
Text number 2	Error
21	has broken lamp
22	exceeded maximum burning hours, needs light bulb change
23	exceeded 90% of max burning hours, advised to order replacement light bulbs

E200: CSU: ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

There is an error at the crack detector.

Solution:

Inspect the crack detector. Try to start the machine again by pressing the ON/RESET push-button. If the error reappears contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	Crack percentage too low
2	Crack percentage too high

E201: CSU: ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

There is an error at the crack detector.

Grader Errors and Warnings

Solution:

Check the description of the sub number to find the cause of the problem. Try to start the machine again by pressing the ON/RESET push-button. If the error reappears contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	backside
2	frontside
100	No communication
101	I2C read error
102	I2C write error
103	Too much sensors disabled

E202: CSU: ROW 2 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 2 of the crack detector.

Solution:**Subnumber description:**

No subnumbers defined.

E203: CSU: ROW 3 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 3 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

E204: CSU: ROW 4 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 4 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E205: CSU: ROW 5 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 5 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E206: CSU: ROW 6 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 6 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E207: CSU: ROW 7 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 7 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E208: CSU: ROW 8 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 8 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

E209: CSU: ROW 9 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 9 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E210: CSU: ROW 10 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 10 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E211: CSU: ROW 11 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 11 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E212: CSU: ROW 12 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 12 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E213: CSU: ROW 13 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 13 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

E214: CSU: ROW 14 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 14 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E215: CSU: ROW 15 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 15 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E216: CSU: ROW 16 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 16 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E217: CSU: ROW 17 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 17 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

E218: CSU: ROW 18 ERROR NR

Active	Type	Category	Mode
No	Error	System	R_A_D

Description:

There is an error on row 18 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

W220: CSU: WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

There is a warning at the crack detector.

Solution:

Inspect the crack detector. Try to start the machine again by pressing the ON/RESET push-button. If the warning reappears contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
1	Crack percentage too low
2	Crack percentage too high

W221: CSU: WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

There is a warning at the crack detector.

Solution:

Check the description of the sub number to find the cause of the problem. Try to start the machine again by pressing the ON/RESET push-button. If the warning reappears contact the Sanovo Service Department.

Grader Errors and Warnings

Subnumber description:

Subnumber	Error
1	backside
2	frontside
10	Sensor <x> - Egg shell on it
11	Sensor <x> - Egg shell on it
100	Max number of spikes
101	Databuffer full
102	Software overload
103	Too much sensors disabled

W222: CSU: ROW 2 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 2 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W223: CSU: ROW 3 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 3 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

W224: CSU: ROW 4 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 4 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W225: CSU: ROW 5 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 5 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

W226: CSU: ROW 6 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 6 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W227: CSU: ROW 7 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 7 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W228: CSU: ROW 8 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 8 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

W229: CSU: ROW 9 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 9 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W230: CSU: ROW 10 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 10 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

W231: CSU: ROW 11 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 11 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W232: CSU: ROW 12 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 12 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W233: CSU: ROW 13 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 13 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

W234: CSU: ROW 14 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 14 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W235: CSU: ROW 15 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 15 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

W236: CSU: ROW 16 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 16 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W237: CSU: ROW 17 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 17 of the crack detector.

Solution:

Subnumber description:

No subnumbers defined.

W238: CSU: ROW 18 WARNING NR

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

There is a warning on row 18 of the crack detector.

Grader Errors and Warnings

Solution:

Subnumber description:

No subnumbers defined.

W241: GRADERCOM: SORT PROGRAM CHANGED!

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W242: GRADERCOM: GRADER SETTINGS CHANGED!

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

W243: GRADERCOM: ZONE 1 SUPPLIER CHANGED!

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W244: GRADERCOM: ZONE 2 SUPPLIER CHANGED!

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W245: GRADERCOM: ZONE 3 SUPPLIER CHANGED!

Active	Type	Category	Mode
No	Warning	Machine	R_O

Grader Errors and Warnings

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W246: GRADERCOM: INFEED SORT PROGRAM CHANGED!

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W247: GRADERCOM: ZONE 1 EGGSWITCH DATA CHANGED

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Grader Errors and Warnings

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W248: GRADERCOM: ZONE 2 EGGSWITCH DATA CHANGED

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

W249: GRADERCOM: ZONE 3 EGGSWITCH DATA CHANGED

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

W250: GRADERCOM: STAT DATA CHANGED

Active	Type	Category	Mode
No	Warning	Machine	R_O

Description:

This message only appears as a notifier in the top of the EGGitTouch or EGG-it Touch screen and signals changes in the grader-data. A EGGitTouch or EGG-it Touch Admin version can react on these messages.

Solution:

No action required.

Subnumber description:

No subnumbers defined.

E261: PRODUCTSERVICE ERROR

Active	Type	Category	Mode
Yes	Error	System	R_A_D

Description:

There is a problem with the produced products service which stores the produced products in the database.

Solution:

Check/restart the GraderServer and the MES Admin and REST server on the Server PC.
Check the availability of the ERP system.
If the error reappears contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error	Description
1	Produced products queue full	The produced products queue is full

Grader Errors and Warnings

E300: PROVISION AI SYNCER UNIT COMMUNICATION ERROR

Active	Type	Category	Mode
Yes GRADERPRO	Error	Machine	R_A_D

Description:

There is a communication error with ProVision AI Syncer unit number.

Solution:

Fix the error/failure at the ProVision AI Syncer unit number, push the ON-button to reset the error and restart the grader.

If the error reappears contact the Sanovo Service Department.

Subnumber description:

ProVision AI Syncer unit number.

E301: PROVISION AI SYNCER UNIT SYNCHRONIZATION ERROR

Active	Type	Category	Mode
Yes GRADERPRO	Error	Machine	R_A_D

Description:

There is a synchronization error with ProVision AI Syncer unit number, it runs behind with the data.

Solution:

Fix the error/failure at the ProVision AI system, push the ON-button to reset the error and restart the grader.
If the error reappears contact the Sanovo Service Department.

Subnumber description:

ProVision AI Syncer unit number.

E302: PROVISION AI SYNCER UNIT ERROR

Active	Type	Category	Mode
Yes GRADERPRO	Error	Machine	R_A_D

Grader Errors and Warnings

Description:

The ProVision AI Syncer unit number has an error.

Solution:

Fix the error/failure at the ProVision AI system, push the ON-button to reset the error and restart the grader.
If the error reappears contact the Sanovo Service Department.

Subnumber description:

Subnumber	Description
11	GraderCom init failed
12	Communication error
13	System not ready
21	Syncer missing camera images
22	Syncer mismatch synchronization
30	Inference error
31	Inference too slow
32	Inference no boxes
35	Inference is hanging
36	Inference exception
40	Result error
44	Box misaligned
45	Lights off
46	Inference too slow
50	No images
51	Camera unavailable
52	PTP unavailable
53	Camera timeout
54	Camera error
61	GPU overheated
71	Lightning shutter closed
72	Camera intensity too low
73	Camera intensity too high
74	Low bar intensity
75	High bar intensity
76	Low led intensity

Grader Errors and Warnings

W303: PROVISION AI SYNCER UNIT WARNING

Active	Type	Category	Mode
Yes GRADERPRO	Warning	Machine	R_A_D

Description:

The ProVision AI Syncer unit number has a warning.

Solution:

Fix the warning/failure at the ProVision AI system, push the ON-button to reset the error and restart the grader.
If the warning reappears contact the Sanovo Service Department.

Subnumber description:

ProVision AI Syncer unit number.

E304: Vision AI led control error at drawer %d1 - %s1

Active	Type	Category	Mode
Yes GRADERPRO	Error	Machine	R_A_D

Description:

Vision AI ledcontrol has an error.

Solution:

Fix the error/failure at Vision AI ledcontrol, push the ON-button to reset the error and restart the grader.
If the error reappears contact the Sanovo Service Department.

Subnumber description:

Text number	Description
1	Communication error
2	Nothing received
3	Trigger missed

 Grader Errors and Warnings

W305: Vision AI led control warning at drawer %d1 - %s1

Active	Type	Category	Mode
Yes GRADERPRO	Error	Machine	R_A_D

Description:

There is a warning from the ledbars.

Subnumber description:

Text number	Description
1	Too many/few nodes detected
2	Invalid calibration values for node %d2

W310: DDP: ILLEGAL TIMING WARNING

Active	Type	Category	Mode
Yes GRADERPRO	Warning	Machine	R_A_D

Description:

The Provision AI has a wrong timing setting.

Solution:

Contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error
2	Not allowed between 130 and 170

Lane errors

E400: UTILITY ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

 Grader Errors and Warnings

Description:

Power supply error or Control PCB error

Solution:

Inspect cabling, power supply voltage levels or press the ON button to clear the error messages and restart the packing lane.

Subnumber description:

Subnumber	Error
11	Lane DC24V supply fault
12	Cascade DC24V supply fault
13	OBRS DC24V supply fault
14	control PCB

Subnumber 2

Subnumber 2	Error	Description
21	system fault	The initialization of one of the peripherals (CAN, SPI, AD converter) of the lanecontrol PCB failed.
22	low voltage error	The 24V power supply for the input and output devices has indicated that the power is not good for a certain period of time. This can be caused by an input voltage that is not within the limits or by a short circuit or overload on the output. Please verify the electrical connections and power supply.
23	input data error	An internal error in the processor of lanecontrol occurred, the software wasn't able to setup communication with the input and output drivers.
24	temperature error	The temperature of the input driver on the lane control exceeded 150°C. This is most likely due to an internal short circuit or an input device that exceeds the maximum allowed input voltage.
25	output data error	An internal error in the processor of lanecontrol occurred, the software wasn't able to setup communication with the input and output drivers.

E401: LANE

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

No EtherCAT communication with the lane possible or has CANopen communication issues on the Control PCB.

 Grader Errors and Warnings

Solution:

1. Inspect lane cabling
2. Turn power of lane on
3. Inspect the CANopen cabling

Subnumber description:

Subnumber	Error	Description
11	is powered off	No power to establish EtherCAT communications.
12	has a CANopen communication error	Control PCB CANopen communication error. Try to reset the packing lane Utilities on the Machine control web interface of the lane.
13	CANopen device is not responding	CANopen communication is working, but the CANopen Slave device isn't responding. Check Slave CANopen Device (Moons CANopen Servo device)
14	PCB EtherCAT configuration fault	Control PCB initialization fault. Try to reset the packing lane Utilities on the Machine control web interface of the lane. If the situation is persisting, then contact Sanovo Service Department

E402: MODBUS ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

No Modbus communication with the lane possible

Solution:

1. Inspect lane cabling
2. Turn power of lane on

Subnumber description:

Subnumber	Error
21	master-
22	detect drives-
23	program drives-
31	unable to program baudrate setting
32	unable to program half duplex
41	not all expected drives detected

Grader Errors and Warnings

Subnumber	Error
51	unable to program left setter
52	unable to program left denester 1
53	unable to program left closer
54	unable to program left denester 2
55	unable to program right setter
56	unable to program right denester 1
57	unable to program right closer
58	unable to program right denester 2

E403: PACKING UNIT ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

Packing unit reports an error

Solution:

Subnumber description:

Subnumber	Error
11	Modbus failure
12	packing lane types is misconfigured

E404: SERVO DRIVE ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

Servo drive reports an error

Grader Errors and Warnings

Solution:

Subnumber description:

Subnumber	Error
11	unable to program left collector
12	unable to program left pack transport
13	unable to program right collector
14	unable to program right pack transport

W405: PACKING UNIT WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

Packing unit reports a warning

Solution:

Subnumber description:

Subnumber	Error
11	Starting up...

W406: PACKING LANE WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

Packing lane control reports a warning

Grader Errors and Warnings

Solution:

Subnumber description:

Subnumber	Error
11	has PCB issue ref. nr:
Reference number	Error
01	heap_overflow_error
02	lane_control_task_stack_overflow_error
03	ethercat_configuration_fault
04	digital_output_task_stack_overflow_error
05	digital_input_task_stack_overflow_error
06	analog_output_task_stack_overflow_error
07	serial_3_task_stack_overflow_error
08	serial_4_task_stack_overflow_error
09	serial_5_task_stack_overflow_error
10	canopen_task_stack_overflow_error
11	encoder_task_stack_overflow_error
12	io_link_task_stack_overflow_error

E410: GENERAL EMERGENCY FAILURE ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

Solution:

Subnumber description:

No subnumbers defined.

E411: GENERAL SAFETY FAILURE ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Grader Errors and Warnings

Description:

Solution:

Subnumber description:

No subnumbers defined.

E412: CLOSER COVER OPENED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch is triggered.

Solution:

Inspect the safety switch and close the cover.

Subnumber description:

No subnumbers defined.

E413: CASCADE SIDE DOOR OPENED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch is triggered.

Solution:

Inspect the safety switch and close the door.

Subnumber description:

No subnumbers defined.

Grader Errors and Warnings

E414: CASCADE FRONT DOOR OPENED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch is triggered.

Solution:

Inspect the safety switch and close the door.

Subnumber description:

No subnumbers defined.

E415: DENESTER 1 DOOR OPENED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch is triggered.

Solution:

Inspect the safety switch and close the door.

Subnumber description:

No subnumbers defined.

E416: DENESTER 2 DOOR OPENED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch is triggered.

Grader Errors and Warnings

Solution:

Inspect the safety switch and close the door.

Subnumber description:

No subnumbers defined.

E417: OBRS DOOR NOT CLOSED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch is triggered.

Solution:

Inspect the safety switch and close the door.

Subnumber description:

No subnumbers defined.

E418: OBRS SAFETY ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

A safety switch at the open box removal system (OBRS) has been triggered

Solution:

1. Resolve the safety error at the OBRS
2. Reset and start the OBRS
3. Reset and start the packing lane

Subnumber description:

No subnumbers defined.

 Grader Errors and Warnings

E420: RELEASE UNIT ERROR

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

A release unit from level x in the cascade of a specific lane has not functioned as expected

Solution:

1. Inspect the mentioned release unit on the mentioned level in cascade
2. Remove any dropped egg in a lower level

Subnumber description:

Subnumber	Error	Description
11	time-out while opening	An egg basket in the cascade did not open in time. The egg is still in the basket.
12	time-out while closing	An egg basket in the cascade did not close in time. The egg has been dropped onto the next lower level in the cascade.
13	not closed while idle	An egg basket was opened unexpectedly when an egg was dropped into it.
14	opened while collector wasn't on position	If the release unit is opened, but the collector isn't above the opened release unit, then this error set. The collector position is checked by the 2 end position sensors. This error is only set for the GP110 and GP220!
15	time out opening (possible collision)	An egg basket in the cascade did not open in time. The eggs are still in the baskets and other eggs en route from a row above are causing a collision.
16	time out closing (possible collision)	An egg basket in the cascade did not close in time. The egg has been dropped onto the next lower level in the cascade and other eggs en route from a row above are causing a collision

W421: RELEASE UNIT DRAWER NOT CLOSED WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

A safety switch is triggered.

 Grader Errors and Warnings

Solution:

Inspect the safety switch and close the drawer.

Subnumber description:

No subnumbers defined.

E430: SETTER ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The setter reports an error.

Solution:

1. Examine the subnumber error code
2. Inspect the origin of the error as indicated in the subnumber

Subnumber description:

Subnumber	Error	Description
11	Not in home position	The setter did not reach its home position
12	Motor jammed	The setter's motor is jammed
13	Eggs are still present after placing	An egg didn't leave the setter's basket
14	Setter pre-home position not detected	The setter's initial position could not be detected
15	wrong number of eggs	The setter does not contain the correct amount of eggs to be placed in the egg carton
16	eggs present at start-up	The setter contains eggs at startup but no egg data is present.
17	eggs not detected	The setter has egg data, but no eggs detected in the setter. Does the eggs present sensor work properly?
21	Motor-	An error occurred with the setter's motor
31	Frequency drive error	An error occurred with the setter's motordrive.

W431: SETTER WARNING

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Grader Errors and Warnings

Description:

The setter reports a warning.

Solution:

1. Examine the subnumber error code
2. Inspect the origin of the warning as indicated in the subnumber

Subnumber description:

Subnumber	Error	Description
11	eggs not detected	The setter has egg data, but no eggs detected in the setter. Does the eggs present sensor work properly?

E440: COLLECTOR ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The collector reports an error.

Solution:**Subnumber description:**

Subnumber	Error
21	servo-
22	homing-
23	sequence error-
24	actuator-
31	command not allowed while not homed
32	command wrong distance
33	command wrong state
34	drive has fault
35	destination not reached
36	did not enter operation mode
41	sensor still active

Grader Errors and Warnings

Subnumber	Error
42	sensor not reached
43	torque not reached
51	starting
52	execute
53	manual
61	time out closing
62	time out opening
63	both opened and closed sensor active

E450: PACK TRANSPORT ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

Pack transport reports an error.

Solution:

Subnumber description:

Subnumber 1	Subnumber 2	Error	Description
21	31	servo-command not allowed while not homed	The requested move (manually or automatically) command isn't allowed because the servo hasn't homed yet. Do a homing!
	32	servo-command wrong distance	The requested move position isn't allowed! If the situation is persisting, then do a rehoming!
	33	servo-command wrong state	An illegal command has been requested. This shouldn't happen.
	34	servo-drive fault	The servo drive is in a fault state, press the ON button to clear the error messages and restart the packing lane.
	35	servo-destination not reached	The designated target position hasn't been reached withing a certain time.
	36	servo-did not enter operation mode	The servo drive is enabled but doesn't go to operation mode within a certain time.
	37	servo-drive won't go to profile position mode	The servo drive has been requested to go to the profile 'position mode', but it doesn't go to 'position mode' profile!
	38	servo-motor hasn't moved	The servo motor hasn't moved to the designated target position.

Grader Errors and Warnings

Subnumber 1	Subnumber 2	Error	Description
22	41	homing-sensor stays active	During homing procedure, the home sensor stays active, check the sensor and check the if there is no obstruction that prevents the servo motor to move.
	42	homing-sensor not reached	During homing procedure, the home sensor becomes stays in-active, check the sensor and check the if there is no obstruction that prevents the servo motor to move.
	43	homing-torque not reached	During torque homing procedure the mechanical end isn't reached, check the mechanical drive belt connections and try rehoming.
	44	homing-did not set home position	The servo did go to the home position, but something went wrong with the storing of the home position within the servo drive.
23	51	sequence error-starting	During the 'startup' procedure something took longer than expected, to prevent a lockup this error is generated.
	52	sequence error-execute	During the 'normal running' procedure something took longer than expected, to prevent a lockup this error is generated.
	53	sequence error-manual	During the 'manual' procedure something took longer than expected, to prevent a lockup this error is generated.

W451: PACK TRANSPORT WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

Pack transport reports a warning.

Solution:

Subnumber description:

Subnumber	Error
11	not within positioning window
12	forced next step

E452: PACKING LANE DOUBLE PACK ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Grader Errors and Warnings

Description:

Packing lane reports that a double pack has been detected on the lane.

Solution:

Remove the double pack.

Subnumber description:

No subnumbers defined.

W453: MISSING EGGS WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

Warning that eggs are missing at a certain location

Solution:

Look for the cause of the missing egg(s).

Subnumber description:

Subnumber	Error	Description
11	a row	Missing an egg in a row of the pack
12	a pack	Missing an egg (or more) somewhere in a pack
13	memory	An egg is detected where no egg should be.
14	pack, to many	Too many eggs are missing within a pack

W454: MISSING PACKS WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

Warning that packs are missing at a certain location.

Grader Errors and Warnings

Solution:

Subnumber description:

Subnumber	Error
11	setter
12	denester
13	inkjet

W455: PACKING LANE WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

Packing lane reports a warning.

Solution:

Subnumber description:

Subnumber	Error
11	missing recipe data for pack transport

E456: PACK DETECTION AT SETTER ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The pack detector mechanism at the setter reports an error.

Grader Errors and Warnings

Solution:

Subnumber description:

Subnumber	Error
11	stays active

W457: PACK DETECTION AT SETTER WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

The pack detector mechanism at the setter reports a warning.

Solution:

Subnumber description:

Subnumber	Error
11	teaching succeeded
12	teaching failed

W458: MISSING EGG DETECTED

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

The missing egg detector reports a warning.

 Grader Errors and Warnings

Solution:

Subnumber description:

Subnumber	Error
11	during a run empty
12	during a product change
13	Not stopped due to a setting

E460: DENESTER ERROR

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

The denester reports an error.

Solution:

Subnumber description:

Subnumber 1	Subnumber 2	Error
11	-	not in home position
12	-	motor jammed
13	-	not in bottom position
14	-	missed near home position
15	-	running backwards
16	-	missed release grippers sensor
17	-	safety cover has been opened
18	-	head overload sensor
21	31	motor-frequency drive error
22	41	clamp plates-time-out activating
	42	clamp plates-time-out deactivating
	43	clamp plates-both open and close sensor active
23	41	grippers-time-out activating
	42	grippers-time-out deactivating

Grader Errors and Warnings

Subnumber 1	Subnumber 2	Error
	43	grippers-both open and close sensor active

W461: DENESTER MISPLACED PACK WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

The denester reports that a pack has been placed incorrectly.

Solution:

Inspect packs on packing lane and adjust faulty pack.

Subnumber description:

No subnumbers defined.

E462: DENESTER PACK LEVEL LOW ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The denester reports that the amount of available packs is low.

Solution:

Add more packs to the denester.

Subnumber description:

No subnumbers defined.

E470: CLOSER ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Grader Errors and Warnings

Description:

The closer reports an error.

Solution:**Subnumber description:**

Subnumber 1	Subnumber 2	Error
11	-	not in home position
12	-	motor jammed
13	-	out-of-transport-area not detected
14	-	safety cover open
15	-	waiting for RESET
21	31	motor-frequency drive error
22	41	tucker finger-time-out activating
22	42	tucker finger-out deactivating
22	43	tucker finger-(de)activation error
23	41	pack lid raise-time-out activating
23	42	pack lid raise-time-out deactivating
23	43	pack lid raise-(de)activation error

E471: OPEN LID DETECTED ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The closer reports that a box fails to close.

Solution:

Inspect packing lane. Close box manually or remove from packing lane.

Subnumber description:

No subnumbers defined.

 Grader Errors and Warnings

W472: OPEN LID DETECTED WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

The closer reports an open box warning.

Solution:

Inspect packing lane. Close box manually or remove from packing lane.

Subnumber description:

Subnumber	Error
11	detected
12	lower sensor stays active
13	lower sensor stays inactive
14	upper sensor stays active
15	upper sensor stays inactive

E480: LABELING ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The labeling mechanism reports an error.

Solution:

Subnumber description:

Subnumber 1	Subnumber 2	Error
11	-	date 1 not responding
12	-	date 2 not responding
21	31	date 1-motor thermal protection

 Grader Errors and Warnings

Subnumber 1	Subnumber 2	Error
22	31	dater 2-motor thermal protection
23	41	egg printer-not ready error
23	42	egg printer-stays too long busy
24	41	stationary printer 1-not ready error
24	42	stationary printer 1-stays too long busy
25	41	while moving printer 1-not ready error
25	42	while moving printer 1-stays too long busy
26	41	while moving printer 2-not ready error
26	42	while moving printer 2-stays too long busy
27	41	label dispenser-not ready error
27	42	label dispenser-stays too long busy
28	41	top tray dispenser-not ready error
28	42	top tray dispenser-stays too long busy
29	41	stationary printer 2-not ready error
29	42	stationary printer 2-stays too long busy

W481: LABELING WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

The labeling mechanism reports a warning.

Solution:

Subnumber description:

Subnumber 1	Subnumber 2	Error
21	-	dater 1-
22	-	dater 2-
23	42	egg printer-stays busy warning
24	42	stationary printer 1-stays busy warning
25	42	while moving printer 1-stays busy warning
26	42	while moving printer 2-stays busy warning

Grader Errors and Warnings

Subnumber 1	Subnumber 2	Error
27	42	label dispenser-stays busy warning
28	42	top tray dispenser-stays busy warning
29	42	stationary printer 2-stays busy warning

E482: PACK PRINTER COMMUNICATION ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

The is an error communicating with the pack printer.

Solution:

Subnumber description:

Subnumber	Error
11	Com-port configure error
12	Com-port reset error
13	SerialLineControl error
14	SerialLineControl communication interrupted error

E483: LABELING COMMUNICATION ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

There is an error communicating with the labeling mechanism.

Solution:

Subnumber description:

Subnumber 1	Subnumber 2	Error
11	21	sequence error-starting

Grader Errors and Warnings

Subnumber 1	Subnumber 2	Error
	22	sequence error-execute
	23	sequence error-manual
12	31	Pack printer 1 not responding
	32	Pack printer 1 not acknowledge response
	33	Pack printer 1 wrong device address
	34	Pack printer 1 wrong checksum
	35	Pack printer 1 wrong command response
	36	Pack printer 1 set active or set ready state error
	38	Pack printer 1 not active and not ready
	39	Pack printer 1 has an error
13	37	Label layout did not change
	41	Label layout name not valid
	42	Label layout field name not valid
	43	Label layout selected data is too long
14	31	Pack printer 2 not responding
	32	Pack printer 2 not acknowledge response
	33	Pack printer 2 wrong device address
	34	Pack printer 2 wrong checksum
	35	Pack printer 2 wrong command response
	39	Pack printer 2 has an error

W484: LABELING COMMUNICATION WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

There is a warning communicating with the labeling mechanism.

Solution:**Subnumber description:**

Subnumber 1	Subnumber 2	Error
11	21	Pack printer 1 no acknowledge response

Grader Errors and Warnings

Subnumber 1	Subnumber 2	Error
	22	Pack printer 1 wrong checksum
	23	Pack printer 1 has a warning
13	43	Pack label selected data is not present
14	21	Pack printer 2 no acknowledge response
	22	Pack printer 2 wrong checksum
	23	Pack printer 2 has a warning

W490: PACK FINAL PROCESSING WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

An error occurred at the end of line automation

Solution:

1. Investigate the subnumber to know what type of end-of-lane equipment is causing the error.
2. Examine and trouble shoot that system
3. Reset and start the lane at the denester

Subnumber description:

Subnumber	Error	Description
11	TAC full	Take away conveyor full
12	case packer inhibit	Case packer inhibit
13	tray stacker blocked	Tray stacker blocked
14	End-of-lane automation is not requesting new packs	End of lane automation is not requesting new packs

E491: FINAL PROCESSING ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

An error occurred at the downstream device.

Grader Errors and Warnings

Solution:

1. Investigate the subnumber to know what is causing the error.
2. Examine and trouble shoot that system
3. Reset and start the lane at the denester

Subnumber description:

Subnumber 1	Subnumber 2	Error	Description
11	21	tac-motor thermal protection	Take Away Conveyor Motor - Motor thermal protection error

W492: DOWNSTREAM OBRS WARNING

Active	Type	Category	Mode
GRADERPRO	Warning	Lane	R_O

Description:

A warning occurred at the OBRS (Open Box Removal System)

Solution:

1. Investigate the subnumber to know what part is causing the warning.
2. Examine and trouble shoot that system
3. Reset and start the lane at the denester

Subnumber description:

Subnumber	Error	Description
14	OBRS buffer full warning	The OpenBoxRemovalSystem buffer full
15	OBRS sensor timeout not detected	One of the photosensors times out, no pack detected
16	OBRS Sensor stays active	One of the photosensors stays active

E493: DOWNSTREAM OBRS ERROR

Active	Type	Category	Mode
GRADERPRO	Error	Lane	R_O

Description:

An error occurred at the OBRS (Open Box Removal System)

Grader Errors and Warnings

Solution:

1. Investigate the subnumber to know what part is causing the error.
 - a. Subnr 23 could have multiple causes. see part below.
2. Examine and trouble shoot that system
3. Reset and start the lane at the denester

Subnumber description:

Subnumber 1	Subnumber 2	Error	
11	21	buffer belt - motor thermal protection error	
	26	buffer belt - is full error	Remove boxes from conveyor
12	22	lift belt - frequency drive error	
	23	lift belt - pack positioning error	It has taken too long for the pack to move from the first to the second sensor or both sensors 1 and 3 are obstructed at the same time, which is not possible. Remove stuck pack or clean and recalibrate sensors
	24	lift belt - actuators error	Check actuator and actuator sensors
	25	lift belt - is not up or down	Check air pressure
	26	is full error	Remove boxes from conveyor

Subnr 23:

Cause 1: Sensors 1, 2 or 3 stays active. When a sensor isn't low during transporting packs an error is generated.

Cause 2: Timeout pack expected at next sensor. When a pack is stuck on the lift a timeout is generated.

E500: PACK CHANGE ERROR

Active	Type	Category	Mode
Yes	Error	Lane	R_O

Description:

An error occurred changing a pack.

Solution:

Subnumber	Error
11	no next pack selected
12	pack data not valid

Grader Errors and Warnings

E501: LABEL LAYOUT CHANGE ERROR

Active	Type	Category	Mode
Yes	Error	Lane	R_O

Description:

There is a problem with the pack label change.

Solution:

Subnumber description:

Subnumber	Error
11	No valid name selected
12	Content data not valid
13	packprinter not enabled

E511: PRODUCED PRODUCT ERROR

Active	Type	Category	Mode
Yes	Error	Lane	R_O

Description:

There is a problem with the produced products service of the lane.

Solution:

Check/restart the GraderServer, the MES Admin, MES REST server and MongoDB on the Server PC.
Check the availability of the ERP system.
If the error reappears contact the Sanovo Service Department.

Subnumber description:

Subnumber	Error	Description
11	queue full	The produced products queue of the lane is full

 Grader Errors and Warnings

E516: SUPPLIER BATCH CHANGE ERROR

Active	Type	Category	Mode
Yes	Error	Lane	R_O

Description:

There is a problem changing the supplier batch

Solution:

Subnumber description:

Subnumber	Error	Description
11	waiting when previous supplier batch has been processed	

E520: RESERVOIR LANE

Active	Type	Category	Mode
Yes	Error	Lane	R_O

Description:

There is a problem with the reservoir lane

Solution:

Subnumber description:

Subnumber	Error	Description
11	overload alarm	Check the affected motor for defects and make sure it is not blocked in any way. Correct any problems and reset the overload alarm of the affected motor. If the overload alarm is activated again when the motor is restarted, contact the Sanovo Service Department.

W521: RESERVOIR LANE

Active	Type	Category	Mode
Yes	Warning	Lane	R_O

Grader Errors and Warnings

Description:

There is a problem with the reservoir lane

Solution:**Subnumber description:**

Subnumber	Error	Description
11	inhibit	Remove the (externally) downstream blockage and start the grader

Staalkat Loader errors**W650: STACK INFEED LOADER WARNING**

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

There is a warning at the infeed loader.

Solution:**Subnumber description:**

Subnumber	Error
11	emergency stop is active

W660: STACK INFEED LOADER WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

There is a warning at the infeed loader.

 Grader Errors and Warnings

Solution:

Subnumber description:

Subnumber	Error
11	Stack detection shift position <x> - <msg>
12	Stack detection loader infeed belt <msg>
21	not active in time
22	stays active

W661: STACK INFEED LOADER WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

There is a warning at the infeed loader.

Solution:

Subnumber description:

Subnumber	Error
11	Pusher <x>
12	Separator
21	time-out activating
22	time-out deactivating
23	activated deactivated together detected

W670: STACK INFEED LOADER WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Grader Errors and Warnings

Description:

There is a warning at the infeed loader.

Solution:**Subnumber description:**

Subnumber	Error
11	Stack in wrong position

W671: STACK INFEED LOADER WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Description:

There is a warning at the infeed loader.

Solution:**Subnumber description:**

Subnumber	Error
11	External stack infeed belt
12	Stack turn belt
13	Shift unit infeed belt
14	Shift unit belt
21	frequency drive not ok

W672: STACK INFEED LOADER WARNING

Active	Type	Category	Mode
Yes	Warning	Machine	R_O

Grader Errors and Warnings

Description:

There is a warning at the infeed loader.

Solution:

Subnumber description:

Subnumber	Error
11	Stack detection shift unit belt -
21	not active in time
22	stays active

OptiLoader errors

L001: Ethercat network error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Communication errors in the EtherCat network has happened.

Solution:

Check all network connections and that the 24VDC power supply is stable.

L002: EtherCAT number of slaves not correct.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The number of configures slaves and scanned slaves does not match.

Solution:

Check all network connections.

L003: Ethercat network error control cabinet.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A communication error in the EtherCAT network inside the control cabinet UC1 has happened.

Grader Errors and Warnings

Solution:

Check all network connections and that the 24VDC power supply is stable.

L004: Ethercat network error UH2.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A communication error in the EtherCAT network at UH2 has happened.

Solution:

Check all network connections and that the 24VDC power supply is stable.

L005: Ethercat network error UH3.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A communication error in the EtherCAT network at UH3 has happened.

Solution:

Check all network connections and that the 24VDC power supply is stable.

L006: Ethercat network error UH5.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A communication error in the EtherCAT network at UH5 has happened.

Solution:

Check all network connections and that the 24VDC power supply is stable.

L007: Ethercat network error UH6.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A communication error in the EtherCAT network at UH6 has happened.

Solution:

Check all network connections and that the 24VDC power supply is stable.

Grader Errors and Warnings

L008: CF card write error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

CF card write error.

Solution:

Check that card is in place or exchange card.

L009: Grader or Breaker not in auto.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Grader or Breaker is not running production.

Solution:

Start machines in production.

L010: Breaker not CIP.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The breaker is not In CIP mode.

Solution:

L011: Pressure error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The air pressure is not correct.

Solution:

Check the supply of air.

L012: External Encoder not valid.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Grader Errors and Warnings

The External encoder is not following.

Solution:

Check encoder and perform homing sequence.

L013: Thermal fault CIP pump.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Thermal overload fault CIP Pump in UC1.

Solution:

Reset the relay and check motor consumption.

L021: Emergency push at operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Emergency push at operator panel activated.

Solution:

Release push and press reset to restart.

L022: External Emergency stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

External emergency circuit has been activated.

Solution:

Reset external equipment and press reset to restart.

L023: Emergency circuit not OK.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The emergency circuit has been activated.

Solution:

Reset all active circuits and press reset.

Grader Errors and Warnings

L024: Safetyswitch Caroussel Front Door from operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at carousel front door from operator panel is activated.

Solution:

Close door and press reset to restart.

L025: Safetyswitch Caroussel Right Door from operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at carousel right door from operator panel is activated.

Solution:

Close door and press reset to restart.

L026: Safetyswitch Caroussel Back Door from operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at carousel back door from operator panel is activated.

Solution:

Close door and press reset to restart.

L027: Safetyswitch Caroussel Left Door from operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at carousel left door from operator panel is activated.

Solution:

Close door and press reset to restart.

L028: Safetyswitch Cover above Pusher.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Safety switch at cover above pusher is activated.

Solution:

Close cover and press reset to restart.

L029: Safetyswitch Traystack gate at conveyor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at tray stack conveyor gate is activated.

Solution:

Close gate and press reset to restart.

L030: Safetyswitch sidedoor conveyor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at tray stack conveyor side door is activated.

Solution:

Close door and press reset to restart.

L031: Safetyswitch Emptytray Front Door from operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at empty tray front door from operator panel is activated.

Solution:

Close door and press reset to restart.

L032: Safetyswitch Emptytray Back Door from operator panel.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at empty tray back door from operator panel is activated.

Solution:

Close door and press reset to restart.

Grader Errors and Warnings

L033: Safetyswitch Emptytray stock tray.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at stock tray detections is activated.

Solution:

Remove stuck tray and press reset to restart.

L034: Safetyswitch SwingArm Big Door.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at swing arm big door is activated.

Solution:

Close door and press reset to restart.

L035: Safetyswitch Rollers Door Away From Grader.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at roller door away from Grader is activated.

Solution:

Close door and press reset to restart.

L036: Safetyswitch Rollers Big Door.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at rollers big door is activated.

Solution:

Close door and press reset to restart.

L037: Safetyswitch Rollers Door Close To Grader.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Safety switch at rollers door close to Grader is activated.

Solution:

Close door and press reset to restart.

L038: Safetyswitch SwingArm Little Door.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch at swing arm little door is activated.

Solution:

Close door and press reset to restart.

L039: Safetyswitch Pushstation.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The door is not closed at the push-station.

Solution:

Close the door, reset and start.

L040: Safety System Feedback Loop Error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The feedback loop has failed.

Solution:

Please check main contactors in the main cabinet for welded contacts.

L041: Software control tray stack belt 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

Grader Errors and Warnings

L042: Tray stack belt 1 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L043: Tray stack belt 1 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L044: Tray stack belt 1 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L045: Tray stack divider 1 feedback sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L046: Tray stack divider 2 feedback sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L047: Tray stack divider 3 feedback sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L051: Software control tray stack belt 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L052: Tray stack belt 2 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L053: Tray stack belt 2 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

Grader Errors and Warnings

L054: Tray stack belt 2 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L061: Software control tray stack belt 3 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L062: Tray stack belt 3 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L063: Tray stack belt 3 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L064: Tray stack belt 3 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L071: Software control tray stack belt 4 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L072: Tray stack belt 4 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L073: Tray stack belt 4 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L074: Tray stack belt 4 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

Grader Errors and Warnings

L081: Software control tray stack belt 5 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L082: Tray stack belt 5 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L083: Tray stack belt 5 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L084: Tray stack belt 5 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L091: Software control tray stack belt 6 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L092: Tray stack belt 6 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L093: Tray stack belt 6 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L094: Tray stack belt 6 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L101: Software control tray stack belt 7 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

Grader Errors and Warnings

L102: Tray stack belt 7 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L103: Tray stack belt 7 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L104: Tray stack belt 7 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L111: Software control tray stack belt 8 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L112: Tray stack belt 8 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L113: Tray stack belt 8 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L114: Tray stack belt 8 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L121: Software control tray stack belt 9 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L122: Tray stack belt 9 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

Grader Errors and Warnings

L123: Tray stack belt 9 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L124: Tray stack belt 9 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L131: Software control tray stack belt 10 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L132: Tray stack belt 10 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L133: Tray stack belt 10 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L134: Tray stack belt 10 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L141: Software control traystackbelt push station not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L142: Tray stack belt push station inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L143: Tray stack belt push station inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

Grader Errors and Warnings

L144: Tray stack belt push station inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L145: Push station motor error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Motor trip overload error.

Solution:

Check motor for overload or short circuit.

L146: Push station front sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L151: Software control tray stack pusher not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L152: Tray stack pusher inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L153: Tray stack pusher inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L154: Tray stack pusher inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L155: Pusher front sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L156: Pusher middle sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

Grader Errors and Warnings

L157: Pusher back sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L161: Software control tray stack lift 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L162: Tray stack lift 1 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L163: Stack lift 1 height sensor not responding at lifting.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, reflex and connection to control system.

L164: Stack lift 1 top sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L165: Stack lift 1 bottom sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L166: Stack lift 1 low speed sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L167: Stack lift 1 height sensor not responding after tray removal.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor behavior is unexpected.

Solution:

Please check for misplaced trays and eggs.

L171: Software control tray stack lift 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

Grader Errors and Warnings

L172: Tray stack lift 2 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L173: Stack lift 2 height sensor not responding at lifting.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, reflex and connection to control system.

L174: Stack lift 2 top sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L175: Stack lift 2 bottom sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L176: Stack lift 2 low speed sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L177: Stack lift 2 height sensor not responding after tray removal.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor behavior is unexpected.

Solution:

Please check for misplaced trays and eggs.

L181: Software control tray stack lift 3 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L182: Tray stack lift 3 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L183: Stack lift 3 height sensor not responding at lifting.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, reflex and connection to control system.

Grader Errors and Warnings

L184: Stack lift 3 top sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L185: Stack lift 3 bottom sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L186: Stack lift 3 low speed sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L187: Stack lift 3 height sensor not responding after tray removal.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor behavior is unexpected.

Solution:

Please check for misplaced trays and eggs.

L191: Software control carousel servo not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

The carousel servo drive is not ready to communicate with the software control system.

Solution:

Please press reset and try to restart.

L192: Servo carousel turn axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Carousel turn axis fault occurs when the servo motor cannot follow the master axis.

Solution:

Please check the carousel can move freely and the motor break is released.

L193: Servo carousel lift axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Carousel lift axis fault occurs when the servo motor cannot follow the master axis.

Solution:

Please check the carousel can move freely and the motor break is released.

L194: Servo carousel virtual master axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The carousel virtual master axis is in error.

Solution:

Please run homing sequence and retry.

L195: Servo carousel virtual slave axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The Carousel virtual slave axis is in error.

Solution:

Please run homing sequence and retry.

Grader Errors and Warnings

L196: Servo carousel encoder axis is running.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The Encoder is moving unexpected.

Solution:

Please check encoder and carousel is not moving.

L197: Carousel gear in error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A gear in error has occurred.

Solution:

Please perform a homing sequence and try again.

L198: Carousel cam in error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A Cam in error has occurred.

Solution:

Please perform a homing sequence and try again.

L199: Carousel cam out error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

A Cam out error has occurred.

Solution:

Please perform a homing sequence and try again.

L200: Carousel external encoder not ready for coupling.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

The external encoder is not ready.

Solution:

Press reset and try again.

L201: Carousel no master encoder selected.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The master encoder was not selected.

Solution:

Please check master encoder and try again.

L202: Home sensor carousel lift not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L203: Home sensor carousel turn not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L204: High temperature carousel motor turn.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Motor temperature is too high.

Solution:

Please check the motor and breaks, free movement of the carousel.

Grader Errors and Warnings

L205: High temperature carousel servo drive turn.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Drive temperature is too high.

Solution:

Please check electrical panel cooling also check drive is free of dust or other things that might prevent cooling.

L206: High temperature carousel motor lift .

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Motor temperature is too high.

Solution:

Please check the motor and breaks, free movement of the carousel.

L207: High temperature carousel servo drive lift.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Drive temperature is too high.

Solution:

Please check electrical panel cooling also check drive is free of dust or other things that might prevent cooling.

L208: Suction head surveillance error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The suction head does not spread.

Solution:

Please check air supply, valve and cylinder.

L209: Max speed on carousel excited.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

The max speed of the carousel is exited.

Solution:

Please reduce speed and try again.

L221: Software control vacuum pump rotary loader not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L222: Vacuum pump inverter rotary loader trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L223: Vacuum pump inverter rotary loader do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L224: Vacuum pump inverter rotary loader do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

Grader Errors and Warnings

L231: Software control empty tray conveyor not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L232: Empty tray conveyor inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L233: Empty tray conveyor inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L234: Empty tray conveyor inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L235: Empty tray conveyor reduce speed sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L236: Empty tray conveyor stop sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L237: Thermal fault empty tray conveyor 2.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Terminal fault on motor.

Solution:

Please check motor and connection.

L240: Empty tray conveyor, empty trays stand in line at the conveyor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Empty trays are standing in line at the conveyor.

Solution:

Remove trays, reset and start.

L241: Empty tray stack 1 top sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, connection to control system and air supply.

Grader Errors and Warnings

L242: Empty tray stack 1 release sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, connection to control system and air supply.

L243: Empty tray stack 1 stuck egg sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L251: Empty tray stack 2 top sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, connection to control system and air supply.

L252: Empty tray stack 2 release sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, connection to control system and air supply.

L253: Empty tray stack 2 stuck egg sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L261: Empty tray stack 3 top sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, connection to control system and air supply.

L262: Empty tray stack 3 release sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor, connection to control system and air supply.

L263: Empty tray stack 3 stuck egg sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L271: Receive table inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

Grader Errors and Warnings

L272: Receive table inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L273: Receive table inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L274: Receive table home position not reached.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Receive table did not reach the home position.

Solution:

Please check home sensor and connection to control panel.

L281: Software control cup conveyor not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L282: Cup conveyor inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L283: Cup conveyor inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L284: Cup conveyor inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L285: Cup conveyor pulse sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L286: Cup conveyor stop sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

 Grader Errors and Warnings

L287: Cup conveyor tray stuck.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Cup conveyor tray stuck.

Solution:

Open door and remove tray then press reset and restart.

L288: Cup conveyor not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Cup conveyor is not ready

Solution:

.

L291: Software control swing servo not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L292: Servo swing turn axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Swing arm turn axis fault occurs when the servo motor cannot follow the master axis.

Solution:

Please check the swing arm can move freely and the motor break is released.

L293: Servo swing lift axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Swing arm lift axis fault occurs when the servo motor cannot follow the master axis.

Solution:

Please check the swing arm can move freely and the motor break is released.

L294: Servo swing virtual master axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swing arm virtual master axis is in error.

Solution:

Please run homing sequence and retry.

L295: Servo swing virtual slave axis fault.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swing arm virtual slave axis is in error.

Solution:

Please run homing sequence and retry.

L296: Servo swing encoder axis is running.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The Encoder is moving unexpected.

Solution:

Please check encoder and carousel is not moving.

L297: Swing gear in error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swingarm did not gear in.

Solution:

Press reset.

Grader Errors and Warnings

L298: Swing cam in error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swingarm did not cam in.

Solution:

Press reset.

L299: Swing cam out error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swingarm did not cam out.

Solution:

Press reset.

L300: Swing external encoder not ready for coupling.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swing arm external encoder is not ready.

Solution:

Press reset and try again.

L301: Swing no master encoder selected.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

The swing arm master encoder was not selected.

Solution:

Please check master encoder and try again.

L302: Home sensor swing lift not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L303: Home sensor swing turn not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L304: High temperature swing motor turn.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Motor temperature is too high.

Solution:

Please check the motor and breaks, free movement of the swing arm.

L305: High temperature swing servo drive turn.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Drive temperature is too high.

Solution:

Please check electrical panel cooling also check drive is free of dust or other things that might prevent cooling.

L306: High temperature swing motor lift.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Motor temperature is too high.

Solution:

Please check the motor and breaks, free movement of the swing arm.

Grader Errors and Warnings

L307: High temperature swing servo drive lift.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Drive temperature is too high.

Solution:

Please check electrical panel cooling also check drive is free of dust or other things that might prevent cooling.

L308: Swing safety sensor outside limit.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Swing arm has moved outside limit.

Solution:

Please activate the sensor and run homing sequence, then try again.

L321: Software control vacuum pump swing arm not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L322: Vacuum pump inverter swing arm trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L323: Vacuum pump inverter swing arm do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L324: Vacuum pump inverter swing arm do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L331: Software control tray stack belt 3 zone 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L332: Tray stack belt 3 zone 1 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L333: Tray stack belt 3 zone 1 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

Grader Errors and Warnings

L334: Tray stack belt 3 zone 1 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L335: Tray stack belt 3 zone 1 Thermal fault conveyor .

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Thermal overload fault conveyor.

Solution:

Reset the relay and check motor consumption.

L336: Software control tray stack belt 2 zone 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L337: Tray stack belt 2 zone 1 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L338: Tray stack belt 2 zone 1 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L339: Tray stack belt 2 zone 1 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L340: Tray stack belt 2 zone 1 Thermal fault conveyor .

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Thermal overload fault conveyor.

Solution:

Reset the relay and check motor consumption.

L341: Software control tray stack belt 1 zone 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L342: Tray stack belt 1 zone 1 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

Grader Errors and Warnings

L343: Tray stack belt 1 zone 1 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L344: Tray stack belt 1 zone 1 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L345: Tray stack divider 1 zone 1 feedback sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L346: Software control tray stack belt 3 zone 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L347: Tray stack belt 3 zone 2 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L348: Tray stack belt 3 zone 2 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L349: Tray stack belt 3 zone 2 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L350: Tray stack belt 3 zone 2 Thermal fault conveyor .

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Thermal overload fault conveyor.

Solution:

Reset the relay and check motor consumption.

L351: Software control tray stack belt 2 zone 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

Grader Errors and Warnings

L352: Tray stack belt 2 zone 2 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L353: Tray stack belt 2 zone 2 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L354: Tray stack belt 2 zone 2 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L355: Tray stack belt 2 zone 2 Thermal fault conveyor .

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Thermal overload fault conveyor.

Solution:

Reset the relay and check motor consumption.

L356: Software control tray stack belt 1 zone 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Internal software sequence error has occurred.

Solution:

Press reset and try to restart.

L357: Tray stack belt 1 zone 2 inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L358: Tray stack belt 1 zone 2 inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L359: Tray stack belt 1 zone 2 inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L360: Tray stack divider 1 zone 2 feedback sensor not responding.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

Grader Errors and Warnings

L361: Software control crosspusher 1 zone 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Crosspusher 1 zone 1 is in unknown state.

Solution:

Press Reset.

L362: Front sensor not responding crosspusher 1 zone 1.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L363: Back sensor not responding crosspusher 1 zone 1.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L364: Software control crosspusher 2 zone 1 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Crosspusher 2 zone 1 is in unknown state.

Solution:

Press Reset.

L365: Front sensor not responding crosspusher 2 zone 1.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L366: Back sensor not responding crosspusher 2 zone 1.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L367: Software control crosspusher 1 zone 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Crosspusher 1 zone 2 is in unknown state.

Solution:

Press Reset.

L368: Front sensor not responding crosspusher 1 zone 2.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L369: Back sensor not responding crosspusher 1 zone 2.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

Grader Errors and Warnings

L370: Software control crosspusher 2 zone 2 not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Crosspusher 2 zone 2 is in unknown state.

Solution:

Press Reset.

L371: Front sensor not responding crosspusher 2 zone 2.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L372: Back sensor not responding crosspusher 2 zone 2.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L373: Software control Traystack index belt not ready.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Traystack index belt is in unknown state.

Solution:

Press Reset.

L374: Traystack index belt inverter trip error.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Frequency inverter trip overload error.

Solution:

Check motor for overload or short circuit.

L375: Traystack index belt inverter do not stop.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge stopped to control system.

Solution:

Check communication to frequency inverter.

L376: Traystack index belt inverter do not start.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Frequency inverter did not acknowledge started to control system.

Solution:

Check communication to frequency inverter.

L377: Traystack index belt, index sensor not found.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L378: Traystack index belt, stacks still on belt.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Stacks still on index belt, can't index.

Solution:

Please remove stacks. Check sensor and connection to control system.

Grader Errors and Warnings

L379: Traystack index belt, 7th layer not removed.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

7th layer not removed from stacks.

Solution:

Please manually remove the 7th layer. Check sensor and connection to control system.

L387: Software control, 7th Layer removal.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

7th layer control is in unknown state.

Solution:

Press Reset.

L388: 7th Layer removal, Traystack pusher 1 front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L389: 7th Layer removal, Traystack pusher 1 back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L390: 7th Layer removal, Traystack pusher 2 front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L391: 7th Layer removal, Traystack pusher 2 back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L392: 7th Layer removal, Traystack pusher 3 front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L393: 7th Layer removal, Traystack pusher 3 back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L394: 7th Layer removal, Vertical movement 1 front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

Grader Errors and Warnings

L395: 7th Layer removal, Vertical movement 1 back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L396: 7th Layer removal, Vertical movement 2 front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L397: 7th Layer removal, Vertical movement 2 back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L398: 7th Layer removal, Vertical movement 3 front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L399: 7th Layer removal, Vertical movement 3 back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L400: 7th Layer removal, Horizontal movement front sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L401: 7th Layer removal, Horizontal movement back sensor.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L402: 7th Layer removal, Safety switch traystacker.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch traystacker at 7th layer removal is activated.

Solution:

Close door and press reset to restart.

L403: 7th Layer removal, Safety switch index belt.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety switch index belt at 7th layer removal is activated.

Solution:

Close door and press reset to restart.

Grader Errors and Warnings

L404: 7th Layer removal, Safestop contactor K36.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Safety relay K36 for 7th layer removal is not OK.

Solution:

Check connections to K36 and check doors press re reset to restart.

L405: EtherCAT Zone 1 Or Zone 2 pushers.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

EtherCAT Error for the crosspusher zone.

Solution:

Check connections in control cabinet.

L406: EtherCAT Toptray removal.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

EtherCAT Error for the toptray removal.

Solution:

Check connections in control cabinet.

L411: Empty tray sorting 1, up sensor not active.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L412: Empty tray sorting 1, down sensor not active.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Grader Errors and Warnings

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L421: Empty tray sorting 2, up sensor not active.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L422: Empty tray sorting 2, down sensor not active.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L431: Empty tray sorting 3, up sensor not active.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

L432: Empty tray sorting 3, down sensor not active.

Active	Type	Category	Mode
Yes OPTILOADER	Error	OptiLoader	R_A_D

Description:

Sensor is not responding.

Solution:

Check sensor and connection to control system.

