

MV/MVS 31/31X


Alarm	Cause	Solution
Er0	Eprom Error. The electronic board is blocked.	Press the STOP button (8). Switch the machine off and back on.
Er1	Data configuration error.	Press the STOP button (8) (the programs are set as default). Switch the machine off and back on.
Er2	Calibration error.	Press the STOP button (8) (the calibration is set as default). Switch the machine off and back on. Perform a new calibration.
Er3	Cycle counter error.	Press the STOP button (8) (the counters are reset). Switch the machine off and back on.
Er4	Faulty sealing relay.	Contact the technical assistance service.
Er5	Vacuum Timeout. Impossible to reach the set vacuum value.	Press the STOP button (8). Switch the machine off and back on. Ensure the set vacuum percentage is correct. Ensure the cover gasket is not dirty or worn. Make sure the cover closes correctly. Perform a new calibration.
Er6	Vacuum gradient, Increase is not reached.	Press the STOP button (8). Ensure the set vacuum percentage is correct. Ensure the cover gasket is not dirty or worn. Make sure the cover closes correctly. Run the program Sr1 "Condition" to clean the pump from any oil emulsion.
Er7	Gas timeout. Gas cylinder empty. The set gas percentage is insufficient.	Press the STOP button (8). Check the set gas percentage in the program. Switch the machine off and check the gas cylinder.
Er8	Air return timeout. Ambient pressure is not reached in the tank at the end of the program. Problem with air return valve (faulty or dirty).	Press the STOP button (8). Switch the machine off and back on.
oiL	Oil maintenance. The machine has exceeded the number of cycles beyond which oil replacement is required.	This alarm is not the blocking type, and it can be bypassed by pressing the STOP button (8). It only appears when the machine is turned on. Contact the technical assistance service.



6.1.5. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.
- EAA:** The machine did not generate the vacuum within the defined maximum time (90 seconds).
Check that the cover is closed correctly.
To reset this alarm, switch the machine off and on again.
- FLA:** The power supply voltage is low.
Contact the technical service department.

"oiL"


When the display shows "oiL" press button .
The display shows the hundreds of cycles carried out by the machine.

To reset the counter, press  and, while keeping it pressed, also press .
The counter is reset.

Alarm "oiL"

When the machine has carried out 12000 cycles, the display shows the alarm "oiL".

This means that the pump oil needs to be changed.

This alarm is not the blocking type, and it can be bypassed by pressing .
It only appears when the machine is turned on.

MV/MVS 45/45X

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 45L/45LX

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 41/41X

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 26X

6.1.5. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.
- EAA:** The machine did not generate the vacuum within the defined maximum time (90 seconds).
Check that the cover is closed correctly.
To reset this alarm, switch the machine off and on again.
- FLA:** The power supply voltage is low.
Contact the technical service department.

MV/MVS 35/35X

6.1.5. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.
- EAA:** The machine did not generate the vacuum within the defined maximum time (90 seconds).
Check that the cover is closed correctly.
To reset this alarm, switch the machine off and on again.
- FLA:** The power supply voltage is low.
Contact the technical service department.

Alarm	Cause	Solution
Er0	Eprom Error. The electronic board is blocked.	Press the STOP button (8). Switch the machine off and back on.
Er1	Data configuration error.	Press the STOP button (8) (the programs are set as default). Switch the machine off and back on.
Er2	Calibration error.	Press the STOP button (8) (the calibration is set as default). Switch the machine off and back on. Perform a new calibration.
Er3	Cycle counter error.	Press the STOP button (8) (the counters are reset). Switch the machine off and back on.
Er4	Faulty sealing relay.	Contact the technical assistance service.
Er5	Vacuum Timeout. Impossible to reach the set vacuum value.	Press the STOP button (8). Switch the machine off and back on. Ensure the set vacuum percentage is correct. Ensure the cover gasket is not dirty or worn. Make sure the cover closes correctly. Perform a new calibration.
Er6	Vacuum gradient, Increase is not reached.	Press the STOP button (8). Ensure the set vacuum percentage is correct. Ensure the cover gasket is not dirty or worn. Make sure the cover closes correctly. Run the program Sr1 "Condition" to clean the pump from any oil emulsion.
Er7	Gas timeout. Gas cylinder empty. The set gas percentage is insufficient.	Press the STOP button (8). Check the set gas percentage in the program. Switch the machine off and check the gas cylinder.
Er8	Air return timeout. Ambient pressure is not reached in the tank at the end of the program. Problem with air return valve (faulty or dirty).	Press the STOP button (8). Switch the machine off and back on.
oil	Oil maintenance. The machine has exceeded the number of cycles beyond which oil replacement is required.	This alarm is not the blocking type, and it can be bypassed by pressing the STOP button (8). It only appears when the machine is turned on. Contact the technical assistance service.

MV/MVS 50/50X

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 52/52X

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 52DV-X

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 65/65X

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press buttons (6) and (7) simultaneously.
- OFF:** The electronic board is blocked.
Contact the technical service department.

MV/MVS 31XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

- OIL** Check the level and colour of the oil, as described in the pump manual.
To reset this alarm, press button (S).
- STOP** The electronic board is blocked. Contact the technical service department.
- PRESSURE** A fault has occurred in the gas introduction system.
Make sure the gas tank is correctly connected to the machine.
To reset this alarm, switch the machine off and on again.
- VACUUM TIME** The machine did not generate the vacuum within the defined maximum time (90 seconds).
Check that the cover is closed correctly.
To reset this alarm, switch the machine off and on again.
- SOLDERING TIME** The machine has exceeded max time provided for the sealing phase (4 seconds).
To reset this alarm, switch the machine off and on again.

MV/MVS 41XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MV/MVS 45XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MV/MVS 45LXP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MV/MVS 48

Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** *Control the oil level and colour as described in chapter 7.6.
To reset this alarm, press buttons (6) and (7) simultaneously.*
- OFF:** *The electronic board is blocked.
Contact the technical service department.*

MV/MVS 48DV

ELECTRONIC BOARD FUNCTIONS

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (5):

- OIL:** *Control the oil level and colour as described in chapter 7.6.
To reset this alarm, press buttons (6) and (7) simultaneously.*
- OFF:** *The electronic board is blocked.
Contact the technical service department.*

MV/MVS 50XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MV/MVS 52XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MV/MVS 52DV-XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MV/MVS 65XP

6.3. Alarm messages

The electronic board detects a series of alarms that are indicated by the following messages, which appear on the display (11):

OIL	Check the level and colour of the oil, as described in the pump manual. To reset this alarm, press button (S).
STOP	The electronic board is blocked. Contact the technical service department.
PRESSURE	A fault has occurred in the gas introduction system. Make sure the gas tank is correctly connected to the machine. To reset this alarm, switch the machine off and on again.
VACUUM TIME	The machine did not generate the vacuum within the defined maximum time (90 seconds). Check that the cover is closed correctly. To reset this alarm, switch the machine off and on again.
SOLDERING TIME	The machine has exceeded max time provided for the sealing phase (4 seconds). To reset this alarm, switch the machine off and on again.

MVS 160-295

FAILURE NOTICES

The control panel has various checks built in. These checks and their notices are made to clearly indicate what the possible cause(s) could be why the machine or the packaging process is not operating as expected.

F1: When this code is displayed, the normal packaging cycle has somehow been interrupted.

Examples:

- a) The lid of the machine has been closed but before the vacuum has been established and thus keeping the lid closed, the operator opens the lid. Now immediately the failure notice F1 will be displayed.
- b) If in a time-controlled machine the gas flushing is programmed in such way that the vacuum disappears, the lid will open without a sealing action. This is an interruption of the normal cycle and F1 will be displayed.

The notice F1 will never be displayed at the start-up of the machine, only during operation

F2: This code indicates that the sensor is not working properly.

During start-up of the machine the condition of the sensor is being checked. If the checked values are outside their scope, the failure notice F2 will be displayed.

The notice F2 can only be displayed during the start-up of the machine.

Rp-: This code will be displayed when the operating panel is not able to get the correct memory data needed for starting up. This, for instance, could be caused by a voltage drop in the power supply.

If this code is displayed, the starting of the machine is being stopped and an operator action is required. The operator has 2 choices:

- 1) Switch the machine off and on again to check if it can get the correct memory this time (try once more)
- 2) Press the Reprog button. By pressing this button the machine will use the default settings are programmed by Minipack (default settings) and all programs will be overwritten with these default settings.

The notice Rp- can only be displayed during the start-up phase of the machine.

If one or more of these above notices are frequently displayed, we recommend to immediately contact your dealer.

MVS 620 840 1100

FAILURE NOTICES

The control panel has various checks built in. These checks and their notices are made to clearly indicate what the possible cause(s) could be why the machine or the packaging process is not operating as expected.

F1: When this code is displayed, the normal packaging cycle has somehow been interrupted.

Examples:

- a) The lid of the machine has been closed but before the vacuum has been established and thus keeping the lid closed, the operator opens the lid. Now immediately the failure notice F1 will be displayed.
- b) If in a time-controlled machine the gas flushing is programmed in such way that the vacuum disappears, the lid will open without a sealing action. This is an interruption of the normal cycle and F1 will be displayed.

The notice F1 will never be displayed at the start-up of the machine, only during operation

F2: This code indicates that the sensor is not working properly.

During start-up of the machine the condition of the sensor is being checked. If the checked values are outside their scope, the failure notice F2 will be displayed.

The notice F2 can only be displayed during the start-up of the machine.

Rp-: This code will be displayed when the operating panel is not able to get the correct memory data needed for starting up. This, for instance, could be caused by a voltage drop in the power supply.

If this code is displayed, the starting of the machine is being stopped and an operator action is required. The operator has 2 choices:

- 1) Switch the machine off and on again to check if it can get the correct memory this time (try once more)
- 2) Press the Reprog button. By pressing this button the machine will use the default settings are programmed by Minipack (default settings) and all programs will be overwritten with these default settings.

The notice Rp- can only be displayed during the start-up phase of the machine.

If one or more of these above notices are frequently displayed, we recommend to immediately contact your dealer.

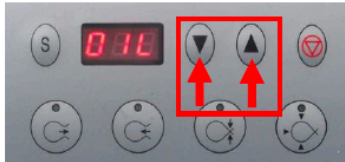
Error codes

Error nr.	Description
F 1	De-activation of the micro switch during the cycle. For example when gas flush function is set at a too high value and the lid opens.
F 2	For sensor control panel. Current pressure is not equal to set start pressure of sensor. For example, when there is a tube bended and still under pressure in the system.

MVS X Series Oil Code (excl. MVS 20-26-31 series)

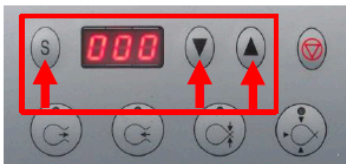
MVS X Series Oil Code (excl. MVS 20-26-31 series)

How to reset code



1. When display shows "OIL", machine is locked for use.
2. To reset machine, press and hold both UP and DOWN simultaneously for about 5 seconds.
4. "OIL" code will disappear and display will show last program number (P1, P2,)
5. Please check/change the oil as necessary.

How to reset oil counter schedule
(when "OIL" code will reappear)



1. Turn off machine.
2. Press and hold simultaneously S, UP and DOWN buttons and turn on machine.
3. The green LED lights will come on and display will show a 3 digit number. This number represent XXX,000 cycles of the pump.



4. Press the S button and display will show another 3 digit number. This number represent yyy cycles of the pump. Combination of both 3 digit numbers represent xxx,yyy total lifetime cycles of the pump.
5. These numbers cannot be reset and will increase and rollover with more usage.



6. Press the S button and display will show another 3 digit number. Factory setting is 012 that represent 12,000 cycles. This number can be increase or decrease using the UP and DOWN buttons.



7. Press the S button and display will show another 3 digit number. Factory setting is 000 that represent 000 cycles. This number can be changed using the UP and DOWN buttons. Combination of both 3 digit numbers represent 012,000 cycles. After 12,000 cycles the display will show "OIL" and will be in locked mode until reset is done.
8. Number in step 6 and 7 should be lowered if vacuuming liquidy or powdery product. This will trigger the "OIL" code sooner for an oil and/or exhaust filter change.