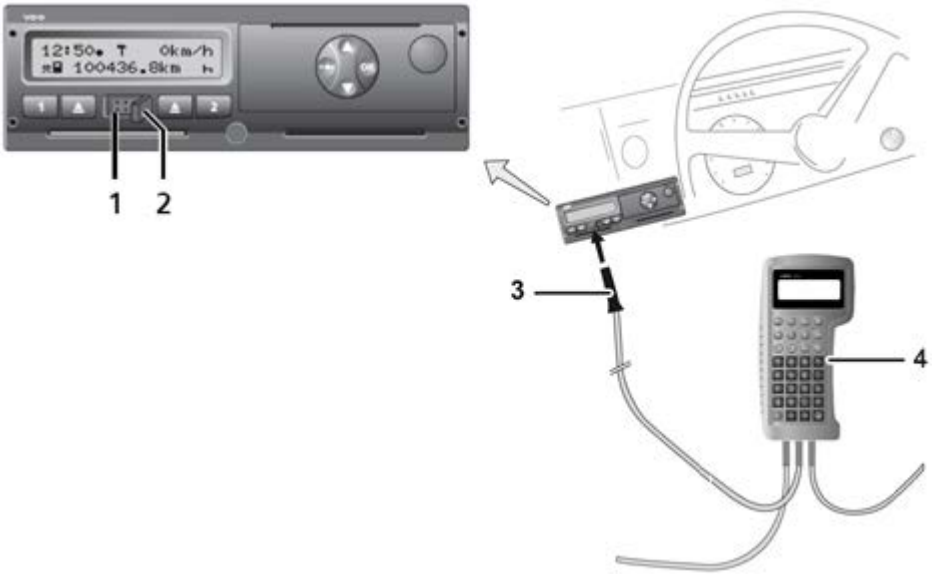
Message summaries

Connecting the diagnostic device



To connect the diagnostic device to the DTCO 1381:

1. Open the cover **(2)** on the calibration interface **(1)** by tilting it to the right.
2. Connect the CTC **(4)** to the DTCO 1381 calibration interface using the DTCO diagnostic cable **(3)**.

Tip
Click on the relevant entry in the table of contents to view the error message description.

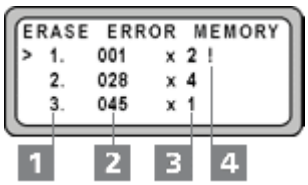
You can also view the error message summaries. Simply click on a screen display to view the corresponding description.

Message summaries

001 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **001** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

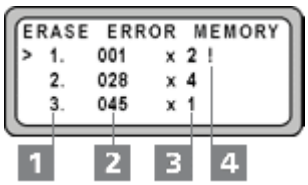
Type of message	Description	Additional information
Fault warning message	**Meaning:** A general, serious device fault has occurred. **Action:** If the error message continues to be displayed despite having acknowledged it repeatedly, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

002 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **002** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

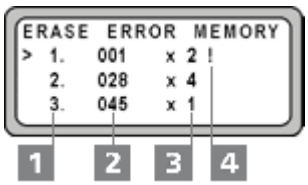
Type of message	Description	Additional information
Fault warning message	**Meaning:** A general, serious device fault has occurred. **Action:** If the error message continues to be displayed despite having acknowledged it repeatedly, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

003 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **003** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

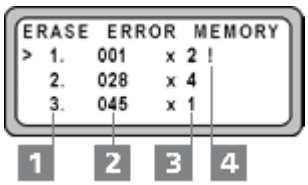
Type of message	Description	Additional information
Fault warning message	**Meaning:** A general, serious device fault has occurred. **Action:** If the error message continues to be displayed despite having acknowledged it repeatedly, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

004 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **004** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

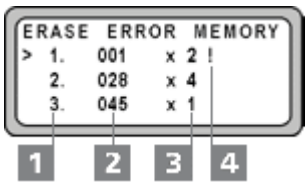
Type of message	Description
Fault warning message	**Meaning:** A general, serious device fault has occurred. **Action:** Replace the DTCO 1381. **Remarks:** This warning message is not saved in the mass memory and is never reset.

Message summaries

005 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **005** that can be read out using any SDS (STC, CTC or MTC).

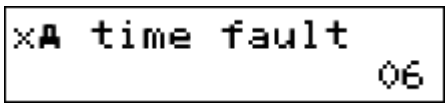
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** A general, serious device fault has occurred. **Action:** If the error message continues to be displayed despite having acknowledged it repeatedly, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

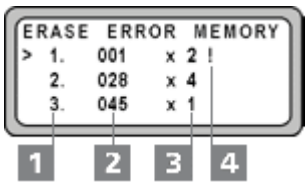
Message summaries

006 – Time fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **006** that can be read out using any SDS (STC, CTC or MTC).

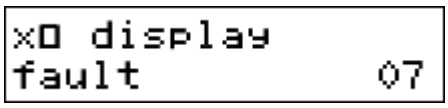
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** The DTCO 1381's time setting is not correct. **Possible cause(s):** The clock has stopped or gone wrong. An internal, periodic check has detected that the time is not plausible. **Action:** Check the DTCO 1381's UTC time and correct it using a test device if necessary. Check the DTCO 1381's **Clock** function. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381. **Remarks:** While this error is active, driver or company cards are not accepted to avoid data inconsistency.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

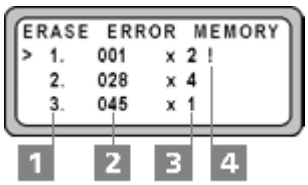
Message summaries

007 – Display fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **007** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

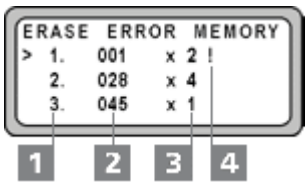
Type of message	Description	Additional information
Fault warning message	**Meaning:** Display fault (possibly no display). **Possible cause(s):** Data transfer to the display controller is interrupted. Display is defective. **Action:** If the error message continues to be displayed, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

008 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **008** that can be read out using any SDS (STC, CTC or MTC).

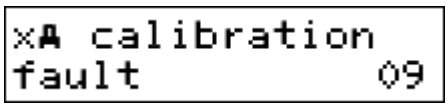
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** Keypad fault. **Possible cause(s):** One or more buttons are jammed or have been pressed for more than six minutes. **Action:** Check the buttons and release any blocked buttons if necessary. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

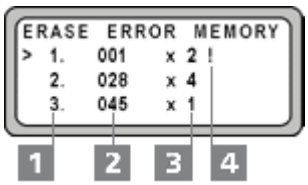
Message summaries

009 – Calibration fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **009** that can be read out using any SDS (STC, CTC or MTC).

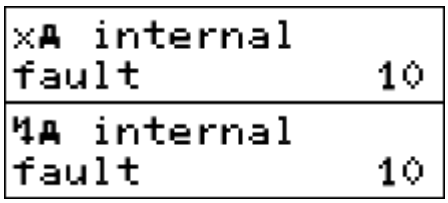
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** Calibration memory fault. **Possible cause(s):** An internal, periodic check of significant calibration parameters has detected a checksum error. Summary of significant calibration parameters: Vehicle identification number Vehicle registration number Characteristic coefficient (W value) Recording equipment constant (K value) Effective wheel circumference (L value) Tyre size Maximum speed UTC time Odometer reading Calibration date **Maßnahme(n):** If the error message continues to be displayed despite having acknowledged it repeatedly, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

010 – Internal fault

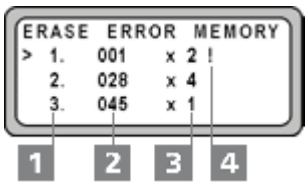
DTCO screen display:



1)

2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **010** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

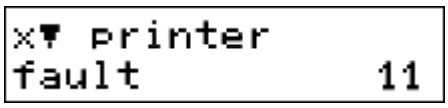
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description	Additional information
Fault warning message[1)] Operation message[2)]	**Meaning:** v pulse output (B7) fault. **Possible cause(s):** The connection cable between the DTCO 1381 and the connected control unit is defective. The control unit connected to output **B7** is defective. Output **B7** on the DTCO 1381 is defective. **Action:** Check whether or not the connected control unit carries out active cable monitoring and deactivate if necessary. Check output **B7** on the DTCO 1381, deactivate B7 monitoring if necessary. Test the connection cable between the DTCO 1381 and the connected control unit. Earth short circuit? + U_B short circuit? Check connected control unit (input). Replace any defective components if necessary. **Remarks:** The monitoring of this fault depends on the DTCO 1381's configuration: The monitoring of this fault can be activated or deactivated (B7recognise).	The fault warning message applies to the DTCO 1381 Rel. 1.0 ... 1.2a. The operation message applies to the DTCO 1381 Rel. 1.3a or later.

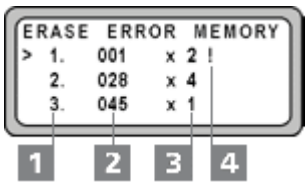
Message summaries

011 – Printer fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **11** that can be read out using any SDS (STC, CTC or MTC).

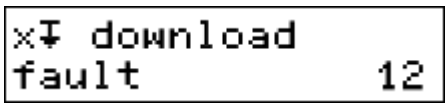
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** Printer fault. **Possible cause(s):** The printer's supply voltage is outside the specified range or is interrupted. The print head temperature is outside the specified range or monitoring revealed implausible values. Fault on the print head temperature sensor. **Action:** Interrupt constant voltage supply (i.e. restart). After printing a large amount of data, the print head temperature is too high. Wait until it has cooled down. If the error message continues to be displayed in spite of taking the above action and acknowledging it several times, replace the DTCO 1381.	This warning message is not stored in the mass memory in **Calibration** mode.

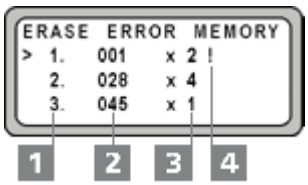
Message summaries

012 – Download fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **012** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

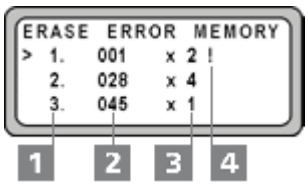
Type of message	Description	Additional information
Fault warning message	**Meaning:** A communication fault has occurred when downloading card or mass memory data. **Action:** Repeat the download procedure. Check the connection cable between the download device and the plug (bad connection, loose contact, connector assignment). Check the download interface on the DTCO 1381. Check the download device. Replace any defective components if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

013 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **013** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

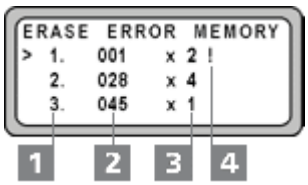
Type of message	Description	Additional information
Fault warning message	**Meaning:** Other CAN fault, CAN controller message, e.g. no subscriber, no acknowledgement etc. **Possible cause(s):** On board electrical system **Action:** Check and if necessary correct the DTCO 1381 function or configuration. Check the power supply (terminals 30, 15 and 31) of the CAN subscriber. Check the earth connection at PIN A5 / A6 Check whether the timing behaviour on the CAN subscribers at terminal 15 is **ON** or **OFF**. Test the BUS medium, if necessary using a CAN analysis tool. **Remarks:** The monitoring of this fault depends on the DTCO 1381's configuration: The monitoring of this fault can be activated or deactivated (CANEVCfg). The fault can be inhibited for a period of time after ignition **ON** (ErrorManagement-InitialisationInhibit). The DTCO 1381 does not have to be the cause of the error.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode. This error message only applies for CAN1.

Message summaries

014 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **014** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

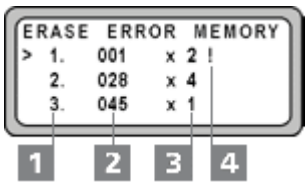
Type of message	Description	Additional information
Fault warning message	**Meaning:** Other CAN fault. CAN controller status message **Bus off**. **Possible cause(s):** Fault in the bus medium Fault in the physical layer Protocol error **Action:** Check and if necessary correct the DTCO 1381 function or configuration. Test the bus medium, if necessary using a CAN analysis tool. Check the power supply (terminals 30, 15 and 31) of the CAN subscriber. Check the earth connection at pin A5 / A6 Check whether the timing behaviour on the CAN subscribers at terminal 15 is **ON** or **OFF**. Check the wiring and the plug allocation. Check whether a load resistor is missing. Check whether any CAN subscribers on the bus have a different baud rate. Check the bit structure. **Remarks:** The monitoring of this fault depends on the DTCO 1381's configuration: The monitoring of this fault can be activated or deactivated (CANEVCfg). The fault can be inhibited for a period of time after ignition **on** (ErrorManagement-InitialisationInhibit). The DTCO 1381 does not have to be the cause of the error.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode. This error message only applies for CAN1.

Message summaries

015 – Internal fault

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **015** that can be read out using any SDS (STC, CTC or MTC).

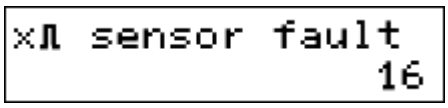
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** Fault or break in communication with an external display unit (reset monitoring). **Possible cause(s):** Instrument cluster or Electronic Speedometer. **Action:** Check and if necessary correct the DTCO 1381 function or configuration. Test the connection cable between the DTCO 1381 and the connected display unit. Connector assignment Connection Specifications Check that the display unit is working properly, e.g. resend reset message. Check whether the DTCO 1381 is working properly. Check the DTCO 1381's calibration data (version / configuration). Replace any defective components if necessary. **Remarks:** The monitoring of this fault depends on the DTCO 1381's configuration: The monitoring of this fault can be activated or deactivated (CANEVCfg). The fault can be inhibited for a period of time after ignition **ON** (ErrorManagement-InitialisationInhibit).	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode. This error message only applies for CAN1.

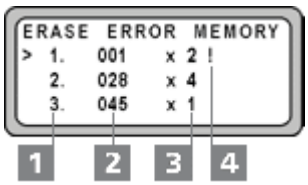
Message summaries

016 – Sensor fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **016** that can be read out using any SDS (STC, CTC or MTC).

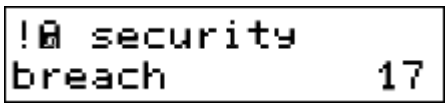
No workshop card necessary.

Type of message	Description	Additional information
Fault warning message	**Meaning:** The KITAS 2171 motion sensor reports an internal fault after the self-test. **Action:** Check the KITAS 2171. Replace the KITAS 2171 if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

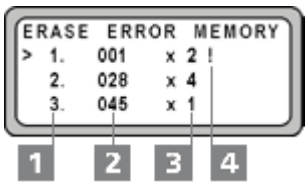
Message summaries

017 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **017** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Internal sensor error; the motion sensor reports a data integrity error. **Action:** Check the KITAS 2171. Replace the KITAS 2171 if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:


```
----------------------
!🔒    0 05.06.2006 07:03
! 34     (  0)       00h15
🖳---
----------------------
```

A security breach occurred while no card was inserted.

Printout driver > **event**:


```
----------------------
!🔒       05.06.2006 08:03
! 34                  00h15
🚹 D  /VS-SV 123
----------------------
```

A security breach occurred while no card was inserted.

```
----------------------
!🔒    0 05.06.2006 08:03
! 34     (  0)       00h15
⊙🖳D  /DF000012323455 6 8
----------------------
```

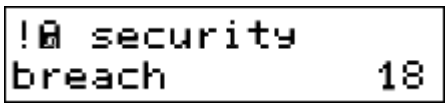
A security breach occurred while a card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

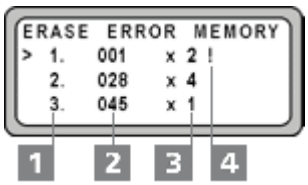
Message summaries

018 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

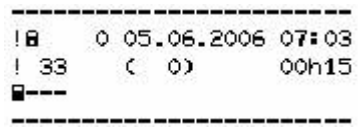
1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **018** that can be read out using any SDS (STC, CTC or MTC).

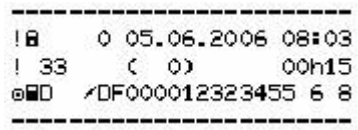
No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Internal sensor error; the motion sensor reports a data integrity error. **Action:** Check the KITAS 2171. Pair the KITAS 2171 with the DTCO 1381 using a test device. Replace the KITAS 2171 if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

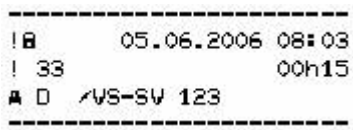


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



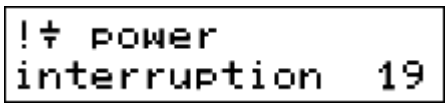
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

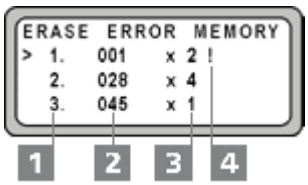
Message summaries

019 – Power interruption

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **019** that can be read out using any SDS (STC, CTC or MTC).

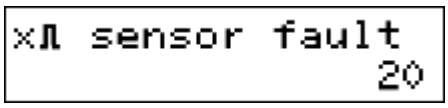
No workshop card necessary.

Type of message	Description	Additional information
Event warning message	**Meaning:** The motion sensor's power supply was interrupted. **Action:** Check the KITAS 2171 sensor cable and if necessary correct: Connector assignment Connection (loose connection) Specifications Check voltage behaviour on terminals 30 and 15 during start up. Are the values within the specified range? Check the KITAS 2171. Check the DTCO 1381. Replace any defective components if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

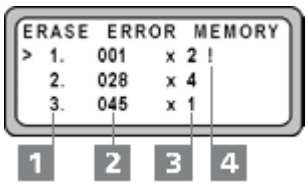
Message summaries

020 – Sensor fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **020** that can be read out using any SDS (STC, CTC or MTC).

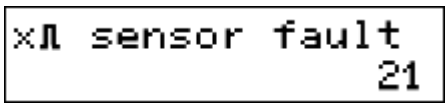
No workshop card necessary.

Type of message	Description	Additional information
Event warning message	**Meaning:** Error in sensor communication. **Possible cause(s):** No data signal (B4). KITAS 2171 not paired with the DTCO 1381. **Action:** Check the KITAS 2171 sensor cable and if necessary correct: Connector assignment Connection (loose connection) Specifications Check the KITAS 2171. Check the DTCO 1381 (input B4). Pair the KITAS 2171 with the DTCO 1381 using a test device. Replace any defective components if necessary.	This warning message is displayed every hour until the cause is removed. The event is only monitored after the DTCO 1381 has been activated.

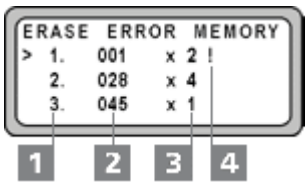
Message summaries

021 – Sensor fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **021** that can be read out using any SDS (STC, CTC or MTC).

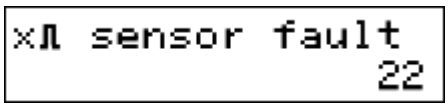
No workshop card necessary.

Type of message	Description	Additional information
Event warning message	**Meaning:** Error in sensor communication. **Possible cause(s):** No real-time signal. **Action:** Check the KITAS 2171 sensor cable and if necessary correct: Connector assignment Connection (loose connection) Specifications Check the KITAS 2171. Check the DTCO 1381 (input B3). Replace any defective components if necessary.	This warning message is displayed every hour until the cause is removed. The event is only monitored after the DTCO 1381 has been activated.

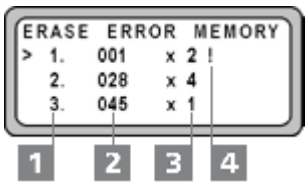
Message summaries

022 – Sensor fault

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **022** that can be read out using any SDS (STC, CTC or MTC).

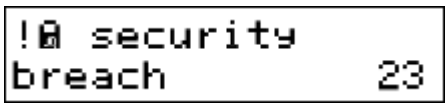
No workshop card necessary.

Type of message	Description	Additional information
Event warning message	**Meaning:** Error in sensor communication. **Possible cause(s):** Difference in motion sensor pulses Transmission error **Action:** Check the KITAS 2171 sensor cable and if necessary correct: Connector assignment Connection (loose connection) Specifications. Check the KITAS 2171. Check the DTCO 1381. Replace any defective components if necessary.	This warning message is displayed every hour until the cause is removed. The event is only monitored after the DTCO 1381 has been activated.

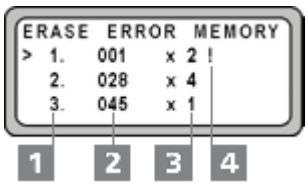
Message summaries

023 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **023** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Error when authenticating the motion sensor when it is operating or error in the pairing procedure. **Possible cause(s):** Error when authenticating the motion sensor when it is operating. Transmission error. Repeated coupling with the KITAS 2171. After coupling 3 times, this function is disabled for security reasons. The workshop card must be removed and re-inserted, i.e. it must be authenticated again. **Action:** Eject the workshop card, insert it again and repeat the coupling procedure. Check the KITAS 2171 sensor cable. Check the KITAS 2171. Check the DTCO 1381 (input B4). Pair the KITAS 2171 with the DTCO 1381 using a test device. Replace any defective components if necessary.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode. The event is only monitored after the DTCO 1381 has been activated.

Printout vehicle > **event**:

```
----------------------
!🔒    0 05.06.2006 07:03
! 17     (  0)       00h15
🔒---
----------------------
```

A security breach occurred while no card was inserted.

```
----------------------
!🔒    0 05.06.2006 08:03
! 17     (  0)       00h15
⊙🔒D  /DF00001232345 5 6 8
----------------------
```

A security breach occurred while a card was inserted.

Printout driver > **event**:

```
----------------------
!🔒       05.06.2006 08:03
! 17                 00h15
A D  /VS-SV 123
----------------------
```

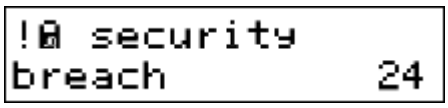
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

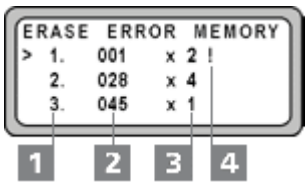
Message summaries

024 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **024** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

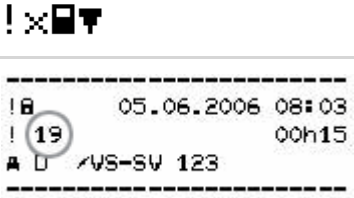
Type of message	Description	Additional information
Security breach warning message	**Meaning:** Unknown serial number. Error when comparing the motion sensor's serial number. **Action:** Check whether the KITAS 2171 is sealed on the gearbox. Check the KITAS 2171. Check the DTCO 1381. Pair the KITAS 2171 with the DTCO 1381 using a test device. Replace any defective components if necessary.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode. The event is only monitored after the DTCO 1381 has been activated.

Printout vehicle > **event**:

A security breach occurred while no card was inserted.

A security breach occurred while a card was inserted.

Printout driver > **event**:



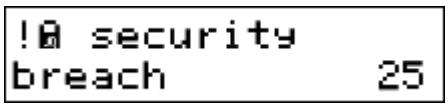
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

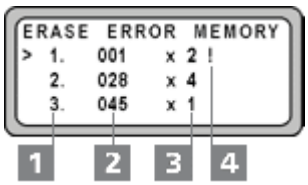
Message summaries

025 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

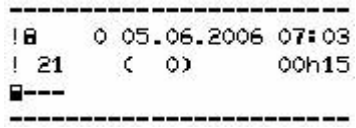
1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **025** that can be read out using any SDS (STC, CTC or MTC).

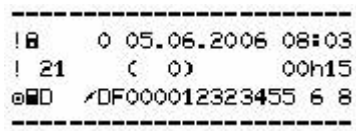
No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Data memory error. Because of a DTCO 1381 data memory error data security is no longer guaranteed. **Action:** Check the DTCO 1381 (test drive). If the error message continues to be displayed, replace the DTCO 1381.	This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

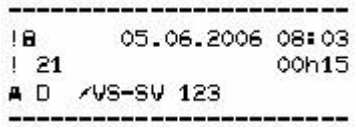


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



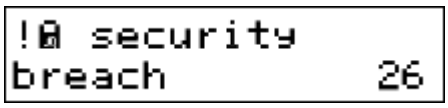
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

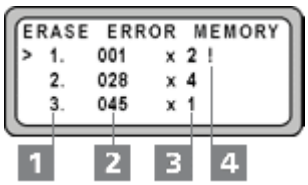
Message summaries

026 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

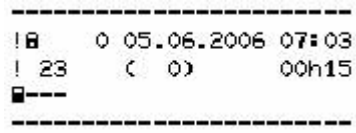
1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **026** that can be read out using any SDS (STC, CTC or MTC).

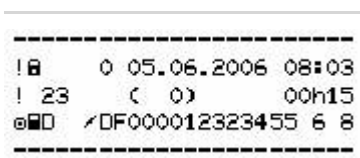
No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Security breach. The DTCO 1381 housing has been opened or is open. **Action:** Check the seals on the DTCO 1381 (housing). Check the DTCO 1381. If the error message continues to be displayed, replace the DTCO 1381.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

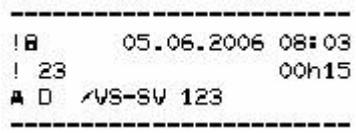


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



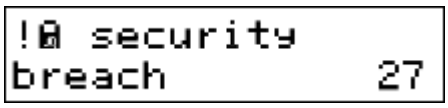
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

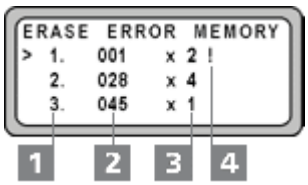
Message summaries

027 – Security breach

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **027** that can be read out using any SDS (STC, CTC or MTC).

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Invalid calibration interface signals. The interface is blocked. Further signals will be ignored until PIN entry is requested (workshop card is inserted). **Action:** Check the communication routines. Check the test and programming cable. Check the test device. Eject the workshop card and insert it again. Repeat the procedure. Replace any defective components if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:


```
----------------------
!a    0 05.06.2006 07:03
! 24    (  0)       00h15
a---
----------------------
```

A security breach occurred while no card was inserted.

```
----------------------
!a    0 05.06.2006 08:03
! 24    (  0)       00h15
⊙aD  /DF00001232345 5 6 8
----------------------
```

A security breach occurred while a card was inserted.

Printout driver > **event**:


```
----------------------
!a       05.06.2006 08:03
! 24                 00h15
A D  /VS-SV 123
----------------------
```

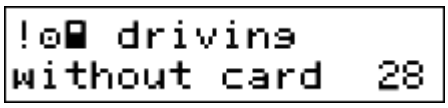
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

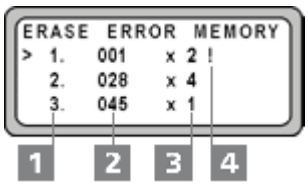
Message summaries

028 – Driving without card

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **028** that can be read out using any SDS (STC, CTC or MTC).

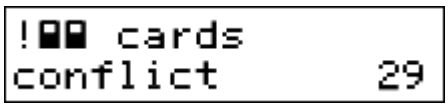
No workshop card necessary.

Type of message	Description
Event warning message	**Meaning:** Trip without a card or without a valid driver or workshop card in card slot 1 or trip with an invalid card combination in card slots 1 and 2. **Action:** Check whether there is a valid driver or workshop card in card slot 1 or 2. If necessary insert a valid card. Check whether a company or control card is in card slot 1. Eject the card if necessary.

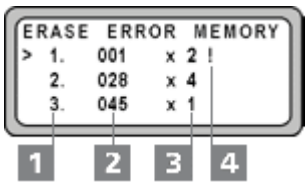
Message summaries

029 – Card conflict

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **029** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

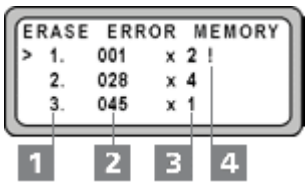
Type of message	Description
Event warning message	**Meaning:** Invalid card combination in card slots 1 and 2. The two tachograph cards must not be inserted at the same time. **Action:** Check the combination of the inserted tachograph cards. Also see Section 2 in the DTCO 1381Technical Product Manual.

Message summaries

030 – Overspeed

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **030** that can be read out using any SDS (STC, CTC or MTC).

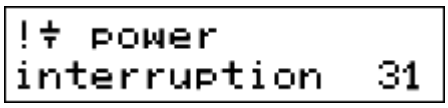
No workshop card necessary.

Type of message	Description
Event warning message	**Meaning:** The programmed maximum speed (Vset) was exceeded for more than 60 seconds. **Action:** Reduce speed.

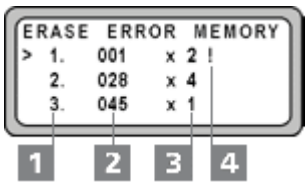
Message summaries

031 – Power interruption

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **031** that can be read out using any SDS (STC, CTC or MTC).

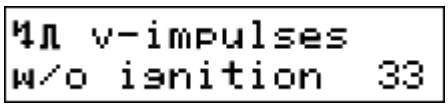
No workshop card necessary.

Type of message	Description	Additional information
Event warning message	**Meaning:** The DTCO 1381's operating voltage was outside the specified range. **Possible cause(s):** Overvoltage. Power interruption **Power interruption** If the DTCO 1381's power supply falls below the following critical specified range value, the DTCO 1381 recognises a "power interruption": 12 V version: type 7.7 V (min. 7.3 V; max. 8.2 V) 24 V version: type 8.6 V (min. 7.3 V; max. 8.2 V) If the DTCO 1381's power supply rises above the following critical value again, the DTCO 1381 displays "power interruption": 12 V version: type 8.3 V (min. 7.8 V; max. 8.8 V) 24 V version: type 9.2 V (min. 8.7 V; max. 9.7 V) **Action:** Check the DTCO 1381's power supply and if necessary correct: Check the connection plug and cable (connector assignment, loose contact, bad connection). Is the voltage value on terminals 30 and 15 within the specified range? Voltage behaviour on terminals 30 and 15 during start up. Are the values within the specified range? Check whether the DTCO 1381 is working properly. Replace any defective components if necessary.	This warning message is not stored in the mass memory in **Calibration** mode.

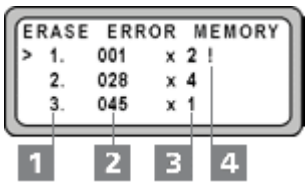
Message summaries

033 – v-pulses without ignition

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **033** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

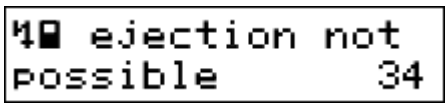
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description	Additional information
Operation message	**Meaning:** v pulse when ignition is turned off. **Action:** Check whether the DTCO 1381 detects **Trip**, if necessary stop the vehicle. Check and if necessary replace the KITAS 2171 sensor cable. Check the DTCO's power supply and if necessary correct: Check the connection plug and cable (connector assignment, loose contact, bad connection). Is the voltage value on terminals 30 and 15 within the specified range? Voltage behaviour on terminals 30 and 15 during start up. Are the values within the specified range? **Remarks** This message consists of: Message on the DTCO 1381's display TCO status output (system event = SE) on the CAN bus and info interface Signal on the D4 output (TCO warning output).	The fault warning message applies to the DTCO 1381 Rel. 1.0 ... 1.2a.

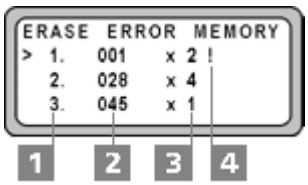
Message summaries

034 – Ejection not possible

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **034** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

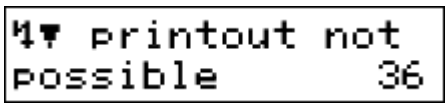
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** A tachograph card cannot be ejected. The request is rejected. **Possible cause(s):** The vehicle is moving. Data download is running. Ignition is off (only ADR version). The tachograph card is being read or written. The tachograph card is requested at the same time as the tachograph card has been read correctly (after insertion or after restarting during activation). **Action:** Check whether the DTCO 1381 detects **Trip**. If necessary stop the vehicle and repeat the procedure. Check whether data is currently being downloaded. If necessary repeat the procedure after the download has finished. Check whether the ignition is on. If necessary turn the ignition on (only ADR version). Repeat the procedure. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.

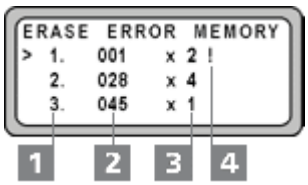
Message summaries

036 – Printout not possible

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **036** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

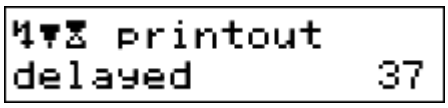
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** It is currently not possible to print out or display the required data or a printout that is running has been cancelled. **Possible cause(s):** The vehicle is moving. Ignition is off (necessary with ADR version). The print head has overheated. Undervoltage or overvoltage. Internal printer interface is occupied with another active procedure, e.g. is currently printing. **Action:** Repeat the procedure. It is only possible to print out or display data when the vehicle is stationary and the ignition is turned on (only ADR version). If necessary stop the vehicle or turn the ignition on. After printing a large amount of data, the print head temperature is too high. Wait until it has cooled down. Check the DTCO 1381's power supply and if necessary correct: Check the connection plug and cable (connector assignment, loose contact, bad connection). Is the voltage value on terminals 30 and 15 within the specified range? Voltage behaviour on terminals 30 and 15 during start up. Are the values within the specified range? Wait until the active procedure has finished and the internal printer interface is free again. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.

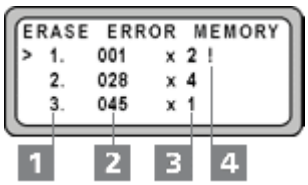
Message summaries

037 – Printout delayed

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **037** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

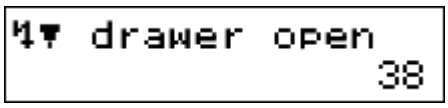
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** It is currently not possible to print out or display the required data or a printout that is running has been cancelled. **Possible cause(s):** The print head has overheated. **Action:** After printing a large amount of data, the print head temperature is too high. Wait until it has cooled down. When the cause has been removed, the interrupted or delayed printout procedure is resumed automatically. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.

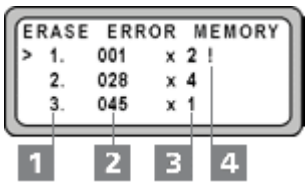
Message summaries

038 – Drawer open

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **038** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

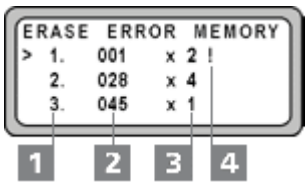
Type of message	Description
Operation message	**Meaning:** With one of the following situations the unit detects that the printer drawer is open: Prompt for a tachograph card in card slot 2. Prompt for a printout. During a printout. The tachograph card output is delayed until the printer drawer is closed. A current printout is cancelled, a print request is rejected. **Possible cause(s):** Printer drawer is open. **Action:** Check whether the printer drawer is open and if necessary close it. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.

Message summaries

039 – No paper

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **039** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

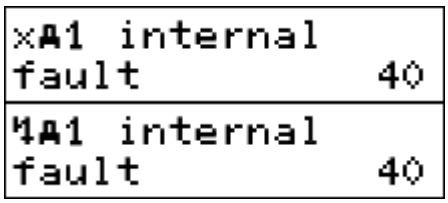
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** During a printout or when a print is requested the unit detects that there is no paper in the printer. The current printout is interrupted and the part that has already been printed is automatically selected or the print request is rejected. **Possible cause(s):** No printer paper inserted. Printer paper has run out. **Action:** Check whether the printer drawer is open and if necessary close it. If a new printer paper roll is inserted within one hour, the DTCO 1381 automatically continues with the printout. A message is output in the first two lines of the following printout (line 1: printout start time; line 2: counter of the consecutive printouts). If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.

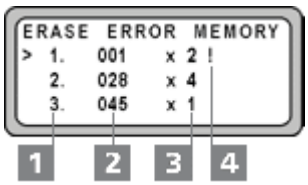
Message summaries

040 – Internal fault (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **040** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

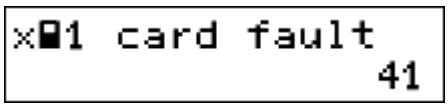
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description	Additional information
Fault warning message[1)] Operation message[2)]	**Meaning:** Card mechanical system fault (slot 1, driver 1). **Possible cause(s):** Card lock not closed General card mechanical system fault **Action:** Insert the tachograph card again. Request the tachograph card again. Interrupt constant voltage supply (i.e. restart). If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381. **Remarks:** The inserted tachograph card may be ejected. This fault is reset after a tachograph card has been inserted correctly.	The fault warning message applies to the DTCO 1381 Rel. 1.0 ... 1.2a. The operation message applies to the DTCO 1381 Rel. 1.3a or later. This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

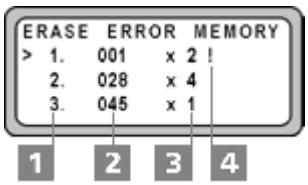
Message summaries

041 – Card fault (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **041** that can be read out using any SDS (STC, CTC or MTC).

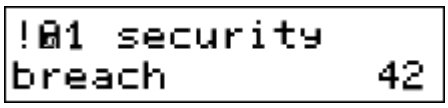
No workshop card necessary.

Type of message	Description
Fault warning message	**Meaning:** Communication error with inserted tachograph card in slot 1 (driver 1). A communication error occurred while the card data was being read or written. **Possible cause(s):** The tachograph card contacts are soiled. The workshop card is faulty. The card slot contacts are soiled. **Action:** Check the tachograph card’s contact points. Check and clean the tachograph card. Check the DTCO 1381, clean the card slot's contact points if necessary. Replace any defective components if necessary. **Remarks:** The inserted tachograph card is ejected.

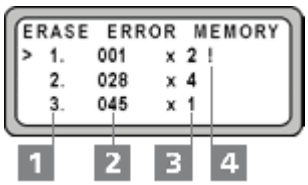
Message summaries

042 – Security breach (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

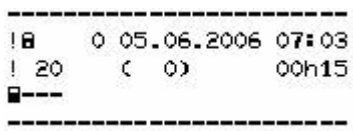
1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **042** that can be read out using any SDS (STC, CTC or MTC).

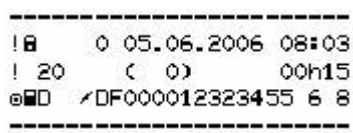
No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** The authenticity of the data on the card in slot 1 (driver 1) is not guaranteed. **Possible cause(s):** Error when checking data authenticity. **Action:** Check the tachograph card. **Remarks:** Tachograph card is ejected.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

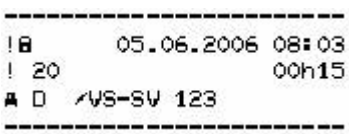


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



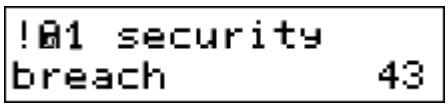
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

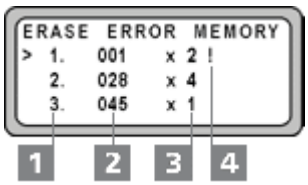
Message summaries

043 – Security breach (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

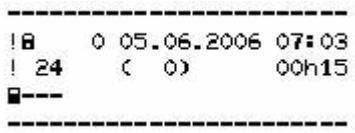
1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **043** that can be read out using any SDS (STC, CTC or MTC).

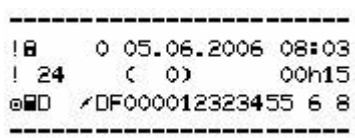
No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Missing card (slot 1, driver 1). The DTCO 1381 no longer detects an inserted card. **Possible cause(s):** After a power cut, the identity check detects that a previously inserted card is missing or another card has been inserted. A card is inserted and the card mechanical system's locking device is not locked. **Action:** Check whether the tachograph card is inserted correctly. Eject the tachograph card and insert it again. Check whether the card locking device is functioning correctly. If the error message continues to be displayed, replace the DTCO 1381.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

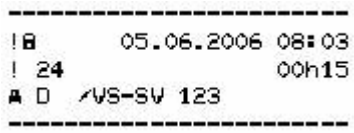


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



A security breach occurred while no card was inserted.

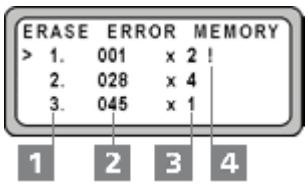
Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

Message summaries

044 – Card not closed (slot 1)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **044** that can be read out using any SDS (STC, CTC or MTC).

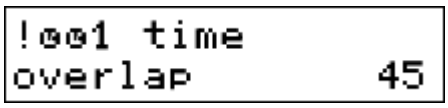
No workshop card necessary.

Type of message	Description
Event warning message	**Meaning:** When reading in a driver or workshop card (in card slot 1), the unit detects that the card was not removed correctly from the last vehicle or the data is not correctly stored. **Action:** Check the tachograph card. Check the previous EC recording equipment. **Remarks:** The source of the error is not in the current DTCO 1381.

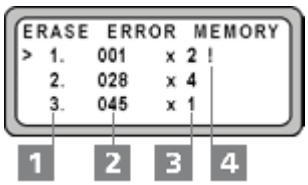
Message summaries

045 – Time overlap (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **045** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

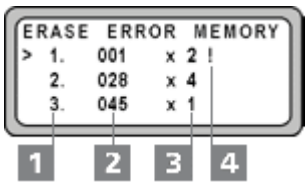
Type of message	Description
Event warning message	**Meaning:** Negative time difference between this and the last vehicle (slot 1: driver card) (EC recording equipment). **Possible cause(s):** The removal time stored on the card is later than the current system time (= time the card was inserted into the current DTCO 1381), i.e. the time of the current EC recording equipment is slow compared with the time on the previous EC recording equipment. **Action:** Check the DTCO 1381's UTC time and correct it using a test device if necessary. Check the UTC time on the previous EC recording equipment. Correct it using a test device if necessary.

Message summaries

046 – Insertion while driving (slot 1)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **046** that can be read out using any SDS (STC, CTC or MTC).

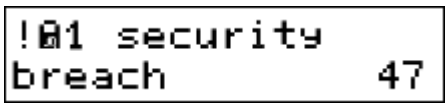
No workshop card necessary.

Type of message	Description
Event warning message	**Meaning:** A tachograph card has been inserted in slot 1 (driver 1) after the start of the trip. **Possible cause(s):** Motion sensor pulse detected before the tachograph card was read correctly. **Action:** Normally only insert tachograph cards when the vehicle is stationary. No further action is necessary.

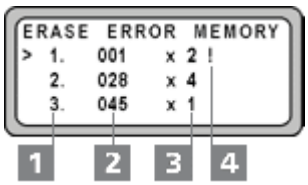
Message summaries

047 – Security breach (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

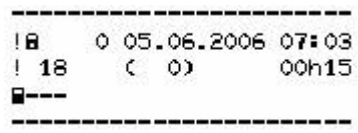
1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **047** that can be read out using any SDS (STC, CTC or MTC).

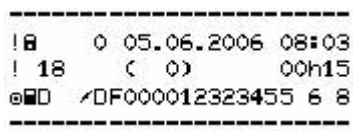
No workshop card necessary.

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Security breach when authenticating a tachograph card in slot 1 (driver). **Possible cause(s):** Error when checking tachograph card identity. **Action:** Check the tachograph card. Check the workshop card, enter the correct PIN.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

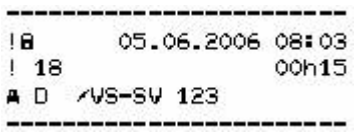


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



A security breach occurred while no card was inserted.

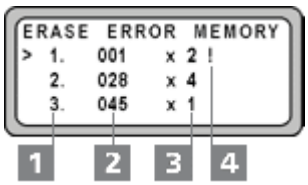
Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

Message summaries

048 – Card not valid (slot 1)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **048** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

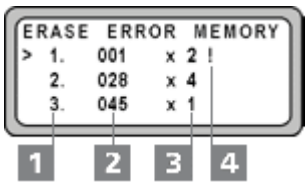
Type of message	Description
Event warning message	**Meaning:** The tachograph card inserted in slot 1 (driver 1) has expired or is invalid. **Possible cause(s):** An invalid or expired tachograph card **a)** has been inserted. When the day changes **b)** the unit detects that an inserted tachograph card is no longer valid. **Action:** Check the tachograph card for validity. **Remarks:** **a)** You can only insert an expired tachograph card (tachograph card has expired but the certificate is still valid) to print out or display the stored data; after confirming the warning message the tachograph card is read as **read only**. **b)** If the day changes when the vehicle is stationary, the corresponding data on the tachograph card is stored and the card is ejected. If the day changes during the trip, the corresponding data on the tachograph card is stored when the trip ends and the card is ejected.

Message summaries

049 – Recording inconsistent (slot 1)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **007** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

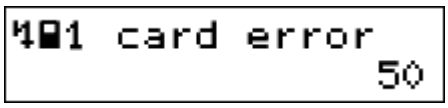
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** When reading in a tachograph card inserted in slot 1 (driver 1), the unit detects that there is an inconsistency in the links within the day's data. **Action:** Check the tachograph card. Analyse data structure.

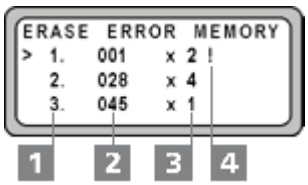
Message summaries

050 – Card error (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **050** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

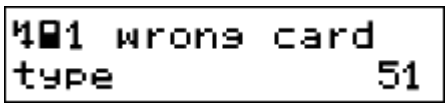
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** The tachograph card inserted in slot 1 (driver 1) was not detected or cannot be read or written. **Possible cause(s):** Card inserted incorrectly. The tachograph card contacts are soiled. Card is faulty. The card slot contacts are soiled. **Action:** Check whether it is a valid tachograph card. Check whether the tachograph card has been inserted correctly. If necessary insert it correctly. Check the card contacts, clean if necessary. Check the tachograph card. Check whether another tachograph card can be read correctly. Clean the card slot contacts.

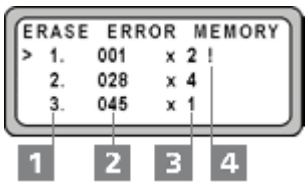
Message summaries

051 – Wrong card type (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **051** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

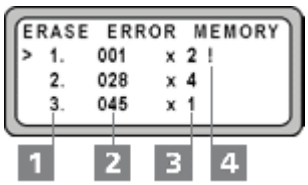
Type of message	Description
Operation message	**Meaning:** The card inserted in slot 1 (driver 1) is not a tachograph card. **Possible cause(s):** The card is not a valid tachograph card. The tachograph card contacts are soiled. Card is faulty. The card slot contacts are soiled. **Action:** Check whether it is a valid tachograph card. Check whether the tachograph card has been inserted correctly. If necessary insert it correctly. Check the card contacts, clean if necessary. Check the tachograph card. Clean the card slot contacts.

Message summaries

052 – Card locked (slot 1)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **052** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

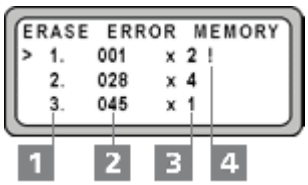
Type of message	Description
Operation message	**Meaning:** The workshop card inserted in slot 1 (driver 1) is blocked. **Possible cause(s):** The workshop card is blocked because the PIN has been entered wrongly 5 times. Workshop card is faulty. **Action:** Check the workshop card. Insert a valid (not blocked) workshop card.

Message summaries

053 – Internal fault (slot 1)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **053** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

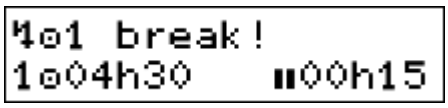
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** Procedure not possible. The tachograph card in slot 1 (driver 1) is not accepted and is ejected again. **Possible cause(s):** The DTCO 1381's current date is outside the valid time period of the tachograph card being inserted. If this date is before July 2005, not even the factory technicians can set the device to the correct date. The DTCO 1381 has detected a general, serious fault in the unit. **Action:** Check the DTCO 1381's date and correct it using a workshop card and a test device if necessary. If the error message continues to be displayed, replace the DTCO 1381.

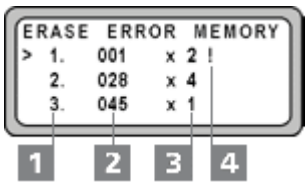
Message summaries

056 – Break (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **056** that can be read out using any SDS (STC, CTC or MTC).

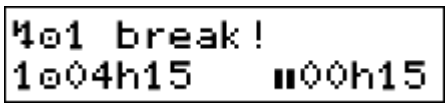
No workshop card necessary.

Type of message	Description
Working time warning message	**Meaning:** After a continuous driving time of 4 hours 30 minutes the DTCO 1381 warns the driver to take a prescribed break. **Possible cause(s):** Legally prescribed minimum break not taken. **Action:** Look for a place to stop and take the prescribed break.

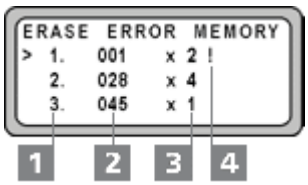
Message summaries

057 – Break (slot 1)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **057** that can be read out using any SDS (STC, CTC or MTC).

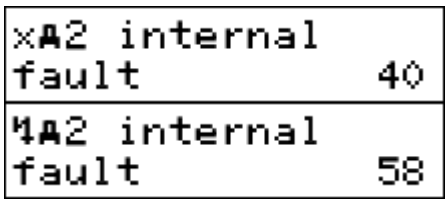
No workshop card necessary.

Type of message	Description
Working time warning message	**Meaning:** After a continuous driving time of 4 hours 15 minutes the DTCO 1381 warns the driver to take a prescribed break (slot 1, driver 1). **Possible cause(s):** Legally prescribed minimum break not taken. **Action:** Look for a place to stop and take the prescribed break.

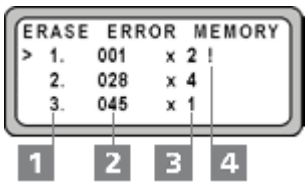
Message summaries

058 – Internal fault (slot 2)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **058** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

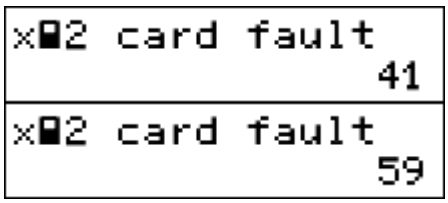
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description	Additional information
Fault warning message[1)] Operation message[2)]	**Meaning:** Card mechanical system fault (slot 2, driver 2) **Possible cause(s):** Card lock not closed General card mechanical system fault **Action:** Insert the tachograph card again. Request the tachograph card again. Interrupt constant voltage supply (i.e. restart). If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381. **Remarks:** The inserted tachograph card may be ejected. This fault is reset after a tachograph card has been inserted correctly.	The fault warning message applies to the DTCO 1381 Rel. 1.0 ... 1.2a. The operation message applies to the DTCO 1381 Rel. 1.3a or later. This warning message is displayed every hour until the cause is removed. This warning message is not stored in the mass memory in **Calibration** mode.

Message summaries

059 – Card fault (slot 2)

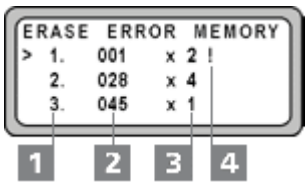
DTCO screen display:



1)

2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **059** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

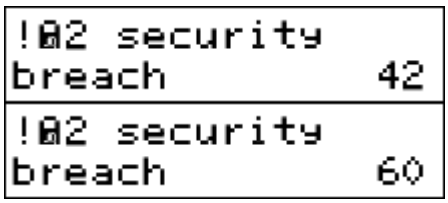
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Fault warning message	**Meaning:** Communication error with inserted tachograph card in slot 2 (driver 2). **Possible cause(s):** The tachograph card contacts are soiled. The workshop card is faulty. The card slot contacts are soiled. **Action:** Check the tachograph card's contact points. Check and clean the tachograph card. Check the DTCO 1381, clean the card slot's contact points if necessary. Replace any defective components if necessary. **Remarks:** The inserted tachograph card is ejected.

Message summaries

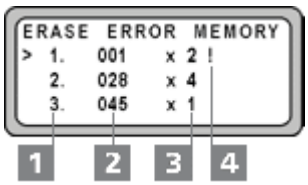
060 – Security breach (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

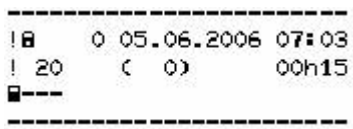
Important
Stands for error memory code **060** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

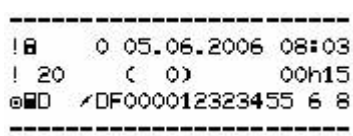
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description	Additional information
Security breach warning message	**Meaning:** The authenticity of the data on the card in slot 2 (driver 2) is not guaranteed. **Possible cause(s):** Error when checking data authenticity. **Action:** Check the tachograph card. **Remarks:** Tachograph card is ejected.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

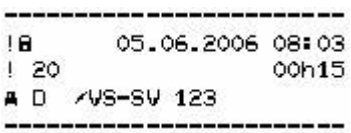


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



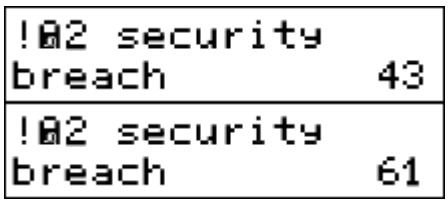
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

Message summaries

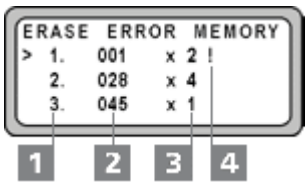
061 – Security breach (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

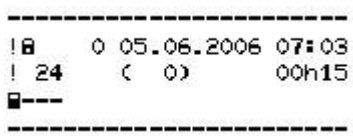
Important
Stands for error memory code **061** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

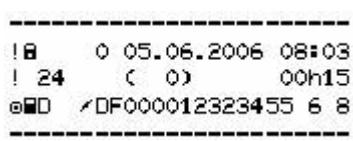
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Missing card (slot 2, driver 2). The DTCO 1381 no longer detects an inserted card. **Possible cause(s):** After a power cut, the identity check detects that a previously inserted card is missing or another card has been inserted. A card is inserted and the card mechanical system's locking device is not locked. **Action:** Check whether the tachograph card is inserted correctly. Eject the tachograph card and insert it again. Check whether the card locking device is functioning correctly. If the error message continues to be displayed, replace the DTCO 1381.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

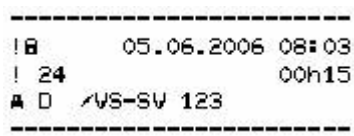


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



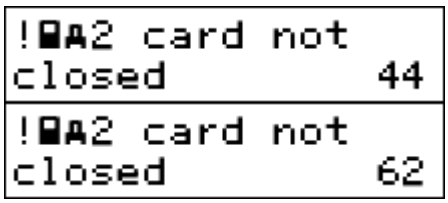
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

Message summaries

062 – Card not closed (slot 2)

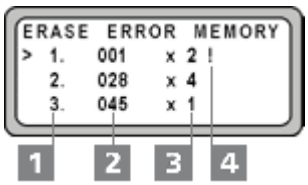
DTCO screen display:



1)

2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **062** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

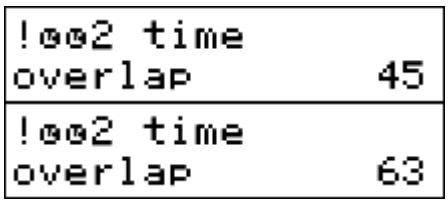
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Event warning message	**Meaning:** When reading in a driver or workshop card (in card slot 2), the unit detects that the card was not removed correctly from the last vehicle or the data is not correctly stored. **Action:** Check the tachograph card. Check the previous EC recording equipment. **Remarks:** The source of the error is not in the current DTCO 1381.

Message summaries

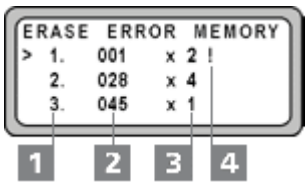
063 – Time overlap (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **063** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

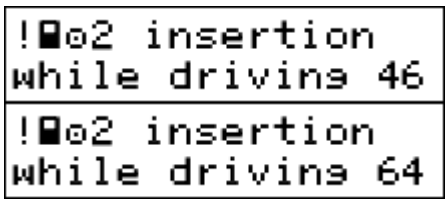
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Event warning message	**Meaning:** Negative time difference between this and the last vehicle (slot 2: driver card) (EC recording equipment). **Possible cause(s):** The removal time stored on the card is later than the current system time (= time the card was inserted into the current DTCO 1381), i.e. the time of the current EC recording equipment is slow compared with the time on the previous EC recording equipment. **Action:** Check the current DTCO 1381's UTC time and correct it using a test device if necessary. Check the UTC time on the previous EC recording equipment. Correct it using a test device if necessary.

Message summaries

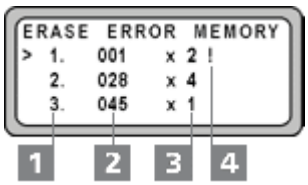
064 – Insertion while driving (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **064** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

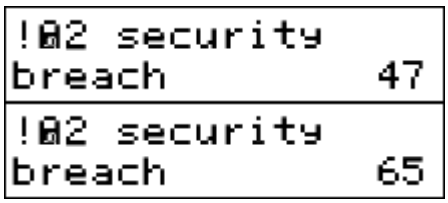
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Event warning message	**Meaning:** A tachograph card has been inserted in slot 2 (driver 2) after the start of the trip. **Possible cause(s):** Motion sensor pulses detected before the tachograph card was read correctly. **Action:** Normally only insert tachograph cards when the vehicle is stationary. No further action is necessary.

Message summaries

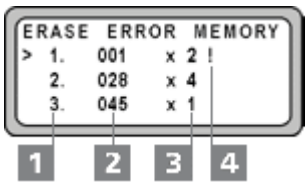
065 – Security breach (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

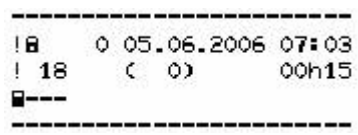
Important
Stands for error memory code **065** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

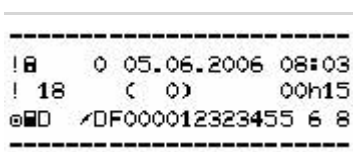
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.a3 or later

Type of message	Description	Additional information
Security breach warning message	**Meaning:** Security breach when authenticating a tachograph card in slot 2 (driver 2). **Possible cause(s):** Error when checking tachograph card identity. **Action:** Check the tachograph card. Check the workshop card, enter the correct PIN.	This warning message is not stored in the mass memory in **Calibration** mode.

Printout vehicle > **event**:

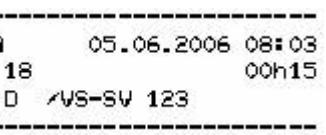


A security breach occurred while no card was inserted.



A security breach occurred while a card was inserted.

Printout driver > **event**:



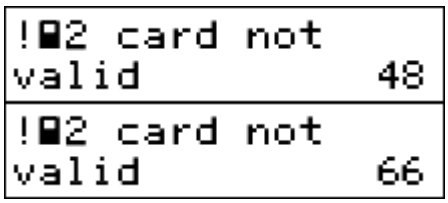
A security breach occurred while no card was inserted.

Explanation of error information on the printouts:
Please refer to Chapter 5 in the DTCO 1381 Technical Product Manual, pages 5-2 to 5-5.

Message summaries

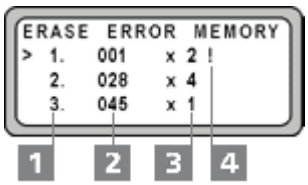
066 – Card not valid (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **066** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Event warning message	**Meaning:** The tachograph card inserted in slot 2 (driver 2) has expired or is invalid. **Possible cause(s):** An invalid or expired tachograph card **a)** has been inserted. When the day changes **b)** the unit detects that an inserted tachograph card is no longer valid. **Action:** Check whether the tachograph card is valid. **Remarks:** **a)** You can only insert an expired tachograph card (tachograph card has expired but the certificate is still valid) to print out or display the stored data; after confirming the warning message the tachograph card is read as **read only**. **b)** If the day changes when the vehicle is stationary, the corresponding data on the tachograph card is stored and the card is ejected. If the day changes during the trip, the corresponding data on the tachograph card is stored when the trip ends and the card is ejected.

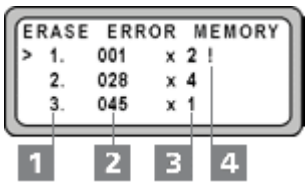
Message summaries

067 – Recording inconsistent (slot 2)

DTCO screen display:

1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **067** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

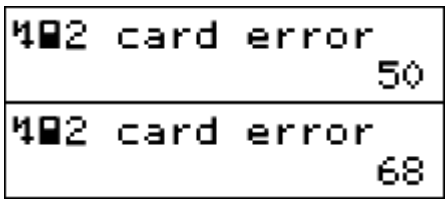
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.a3 or later

Type of message	Description
Operation message	**Meaning:** When reading in a tachograph card inserted in slot 2 (driver 2), the unit detects that there is an inconsistency in the links within the day's data. **Action:** Check the tachograph card. Analyse data structure.

Message summaries

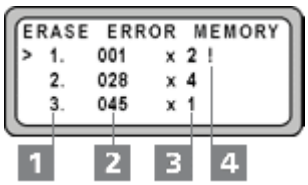
068 – Card error (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **068** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

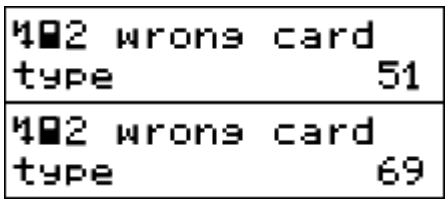
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Operation message	**Meaning:** The tachograph card inserted in slot 2 (driver 2) was not detected or cannot be read or written. **Possible cause(s):** Card inserted incorrectly. The tachograph card contacts are soiled. Card is faulty. The card slot contacts are soiled. **Action:** Check whether it is a valid tachograph card. Check whether the tachograph card has been inserted correctly. If necessary insert it correctly. Check the card contacts, clean if necessary. Check the tachograph card. Check whether another tachograph card can be read correctly. Clean the card slot contacts.

Message summaries

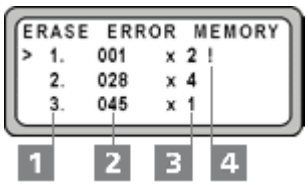
069 – Wrong card type (slot 2)

DTCO screen display:



1)
2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **069** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

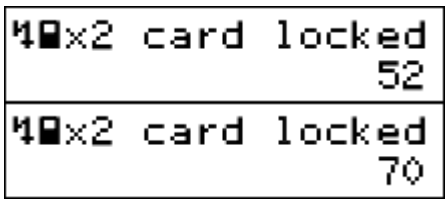
1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

Type of message	Description
Operation message	**Meaning:** The card inserted in slot 2 (driver 2) is not a tachograph card. **Possible cause(s):** The card is not a valid tachograph card. The tachograph card contacts are soiled. Card is faulty. The card slot contacts are soiled. **Action:** Check whether it is a valid tachograph card. Check whether the tachograph card has been inserted correctly. If necessary insert it correctly. Check the card contacts, clean if necessary. Check the tachograph card. Clean the card slot contacts.

Message summaries

070 – Card locked (slot 2)

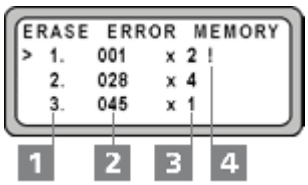
DTCO screen display:



1)

2)

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **070** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Operation messages are not stored in the DTCO 1381 mass memory.

1) DTCO 1381 Rel. 1.0 ... 1.2a
2) DTCO 1381, Rel. 1.3a or later

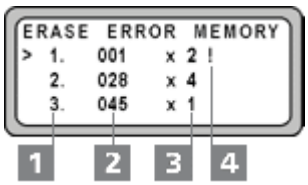
Type of message	Description
Operation message	**Meaning:** The workshop card inserted in slot 2 (driver 2) is blocked. **Possible cause(s):** The workshop card is blocked because the PIN has been entered wrongly 5 times. Workshop card is faulty. **Action:** Check the workshop card. Insert a valid (not blocked) workshop card.

Message summaries

071 – Internal fault (slot 2)

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **071** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

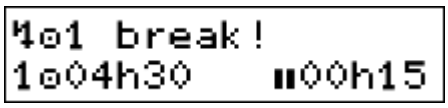
Operation messages are not stored in the DTCO 1381 mass memory.

Type of message	Description
Operation message	**Meaning:** Procedure not possible. The tachograph card in slot 2 (driver 2) is not accepted and is ejected again. **Possible cause(s):** The DTCO 1381's current date is outside the valid time period of the tachograph card being inserted. If this date is before July 2005, not even the factory technicians can set the device to the correct date. The DTCO 1381 has detected a general, serious fault in the unit. **Action:** Check the DTCO 1381's date and correct it using a workshop card and a test device if necessary. If the error message continues to be displayed, replace the DTCO 1381.

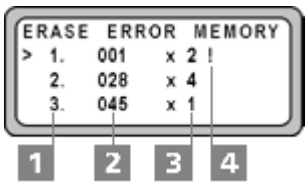
Message summaries

074 – Break (slot 2)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **074** that can be read out using any SDS (STC, CTC or MTC).

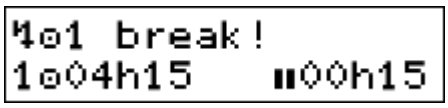
No workshop card necessary.

Type of message	Description
Working time warning message	**Meaning:** After a continuous driving time of 4 hours 30 minutes the DTCO 1381 warns the driver to take a prescribed break. **Possible cause(s):** Legally prescribed minimum break not taken. **Maßnahme(n):** Look for a place to stop and take the prescribed break.

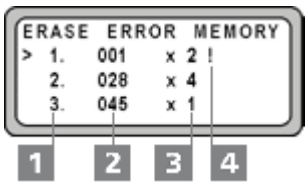
Message summaries

075 – Break (slot 2)

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **075** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

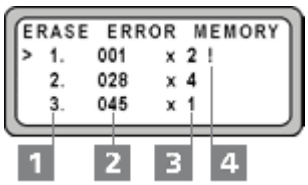
Type of message	Description
Working time warning message	**Meaning:** After a continuous driving time of 4 hours 15 minutes the DTCO 1381 warns the driver to take a prescribed break (slot 1, driver 1). **Possible cause(s):** Legally prescribed minimum break not taken. **Action:** Look for a place to stop and take the prescribed break.

Message summaries

076 - Overspeed (alert)

DTCO screen display:

Example - BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**.

Important
Stands for error memory code **076** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

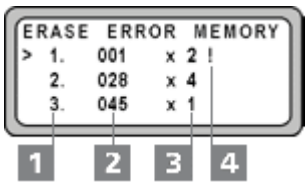
Type of message	Description	Additional information
Event warning message	**Meaning:** Advance warning of programmed maximum speed (Vset). Advance warning time of a maximum of 59 seconds can be selected (can only be set by the vehicle manufacturer **End of line**). **Possible cause(s):** Current speed is higher than Vset. **Action:** Reduce speed.	**Pre-speeding alert**: Warns the driver of a speed infringement to avoid the event being recorded.

Message summaries

077 – Upgrade module not present

DTCO screen display:

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **077** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** The DTCO 1381 is not equipped with a software upgrade module. **Action:** No action necessary. **Remarks:** The DTCO 1381 cannot be upgraded.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

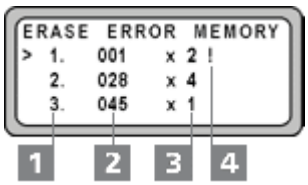
Message summaries

078 – Upgrade failed error

DTCO screen display:

upgrade failed
error #FFFFFFFE

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **078** that can be read out using any SDS (STC, CTC or MTC).

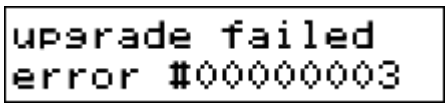
No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** The integrity of the software upgrade module or that of a security key is not guaranteed; the software upgrade has been cancelled. **Action:** Check the DTCO 1381. Repeat the software upgrade. If the error message continues to be displayed in spite of taking the above action, replace the DTCO 1381.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

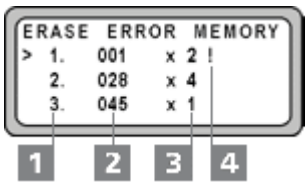
Message summaries

078 – Upgrade failed error

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **078** that can be read out using any SDS (STC, CTC or MTC).

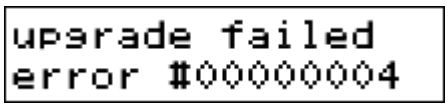
No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** The upgrade file is faulty or corrupted; the software upgrade has been cancelled. **Action:** Check the upgrade file. Repeat the software upgrade with an intact upgrade file. **Remarks:** The DTCO 1381 is not the cause of this message.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

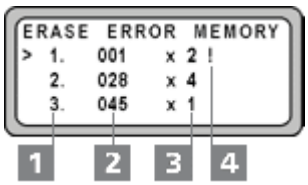
Message summaries

079 – Upgrade failed error

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1. Consecutive number
2. Position in error memory
3. Number of errors
4. Symbol for **error is active**

Important
Stands for error memory code **079** that can be read out using any SDS (STC, CTC or MTC).

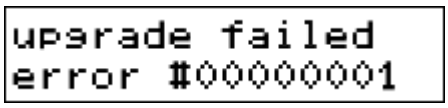
No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** Communication error; the software upgrade has been cancelled. **Possible cause(s):** DTCO 1381 download interface defective Data connection interrupted or data cable defective Management device interface disturbed or blocked **Action:** Check the download interface on the DTCO 1381. Check data connection and data cable. Check the Management Device's interface and that the MD itself is working properly. Repeat the software upgrade. **Remarks:** The DTCO 1381 is not necessarily the cause of this message.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

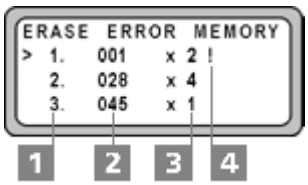
Message summaries

079 – Upgrade failed error

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **079** that can be read out using any SDS (STC, CTC or MTC).

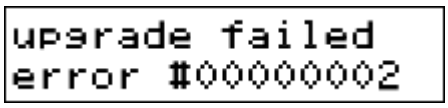
No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** During the software upgrade the DTCO 1381's power supply was outside the specified range; the software upgrade has been cancelled. **Action:** Check the DTCO 1381's power supply and if necessary correct: Connection plug and cable (connector assignment, bad connection, loose contact). Is the voltage value on terminals 30 and 15 within the specified range? During the software upgrade ensure that the DTCO 1381 has a secure power source, e.g. a laboratory power pack. Repeat the software upgrade. If the error message continues to be displayed, replace the DTCO 1381. **Remarks:** The DTCO 1381 is not necessarily the cause of this message.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

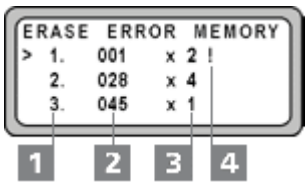
Message summaries

079 – Upgrade failed error

DTCO screen display:



Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **079** that can be read out using any SDS (STC, CTC or MTC).

No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** The management device could not be authenticated; the software upgrade has been cancelled. **Action:** Check that the management device is working properly. Repeat the software upgrade. **Remarks:** The DTCO 1381 is not necessarily the cause of this message.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

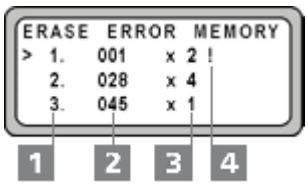
Message summaries

079 – Upgrade failed error

DTCO screen display:

upgrade failed
error #FFFFFFFF

Example – BTC display:



Use the ↑ and ↓ keys to scroll through the error memory:

1 Consecutive number
2 Position in error memory
3 Number of errors
4 Symbol for **error is active**

Important
Stands for error memory code **079** that can be read out using any SDS (STC, CTC or MTC).

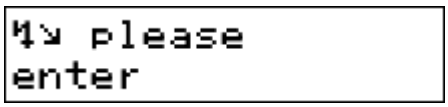
No workshop card necessary.

Type of message	Description	Additional information
Other event warning message	**Meaning:** The software upgrade module could not be started; the software upgrade has been cancelled. **Possible cause(s):** Internal fault of the DTCO 1381. **Action:** Check the DTCO 1381. Repeat the software upgrade. If the error message continues to be displayed, replace the DTCO 1381.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

Message summaries

Please enter

DTCO screen display:

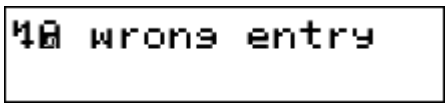


Type of message	Description	Additional information
Operation message	**Meaning:** If no entry is made during an entry procedure, this prompt will be displayed after 30 seconds. **Action:** Continue entering data.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

Message summaries

Wrong entry

DTCO screen display:

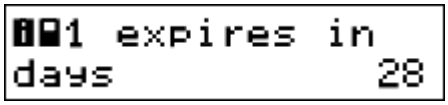


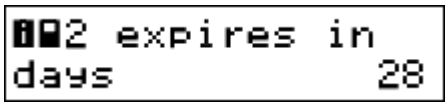
Type of message	Description	Additional information
Operation message	**Meaning:** A wrong PIN has been entered for the workshop card. **Action:** Repeat PIN entry or cancel the procedure.	With this message the memory code (MC) is not shown on the DTCO 1381 display.

Message summaries

Expires in days

DTCO screen display:



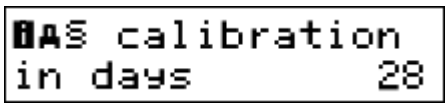


Type of message	Description	Additional information
Operation message	**Meaning:** The card in question will become invalid, e.g. in 28 days. **Action:** Apply for a new card before your old one expires. **Remarks:** The monitoring of this message depends on the DTCO 1381's configuration. The monitoring of this message can be activated or deactivated. The advance warning time (0 – 92 days) of this message is configurable.	Release 1.3a or later With this message the memory code (MC) is not shown on the DTCO 1381 display.

Message summaries

Calibration in days

DTCO screen display:



Type of message	Description	Additional information
Operation message	**Meaning:** The next periodic inspection is due, e.g. in 28 days. **Action:** Ensure that the legally prescribed periodic inspection is carried out in an authorised workshop in e.g. 28 days at the latest. **Remarks:** The monitoring of this message depends on the DTCO 1381's configuration. The monitoring of this message can be activated or deactivated. The advance warning time (0 – 92 days) of this message is configurable (WarnBeforeExpiryDate).	Release 1.3a or later With this message the memory code (MC) is not shown on the DTCO 1381 display.