



*JVL ...when motors must be controlled*



# OCX-demo in Excel



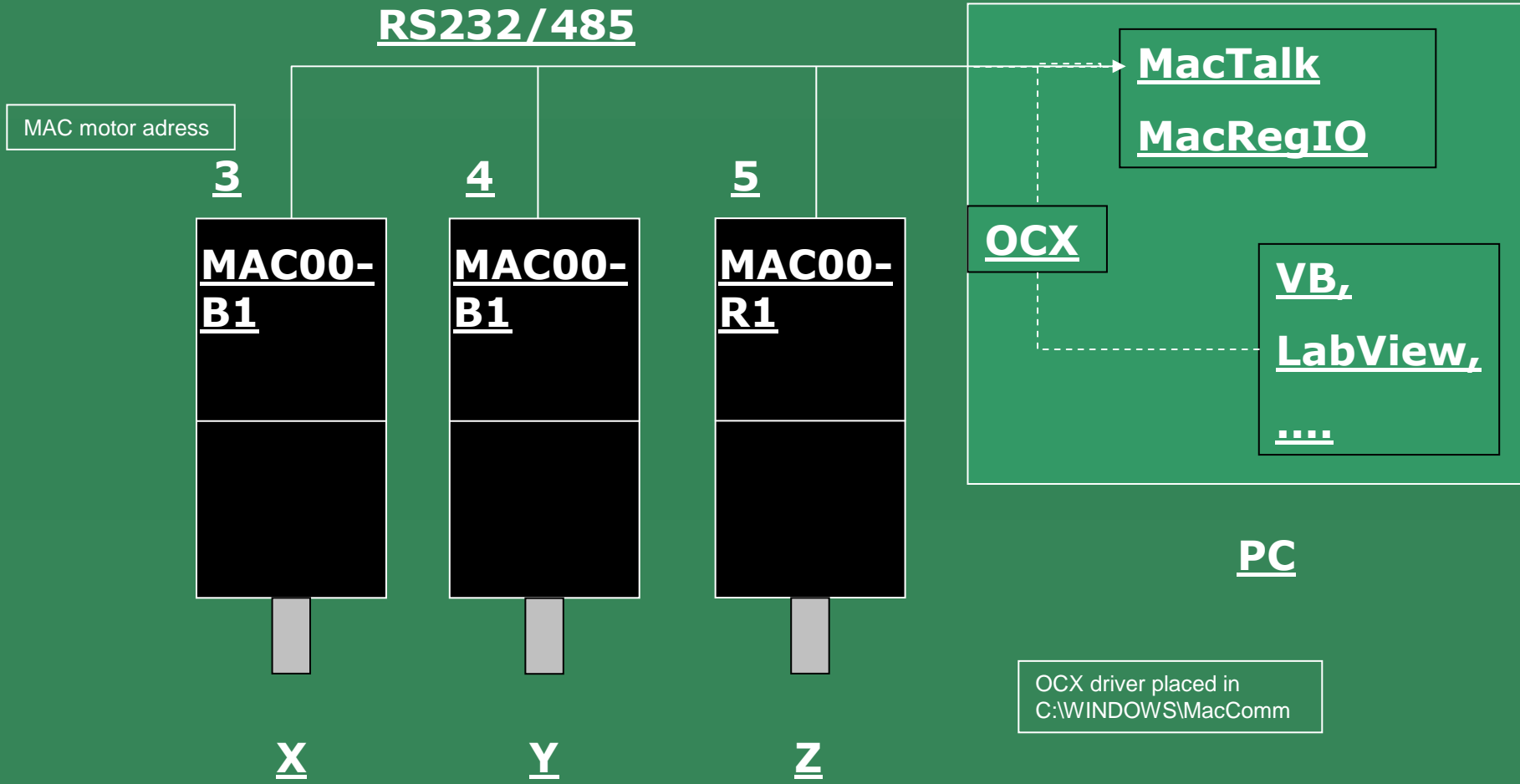


# Programming

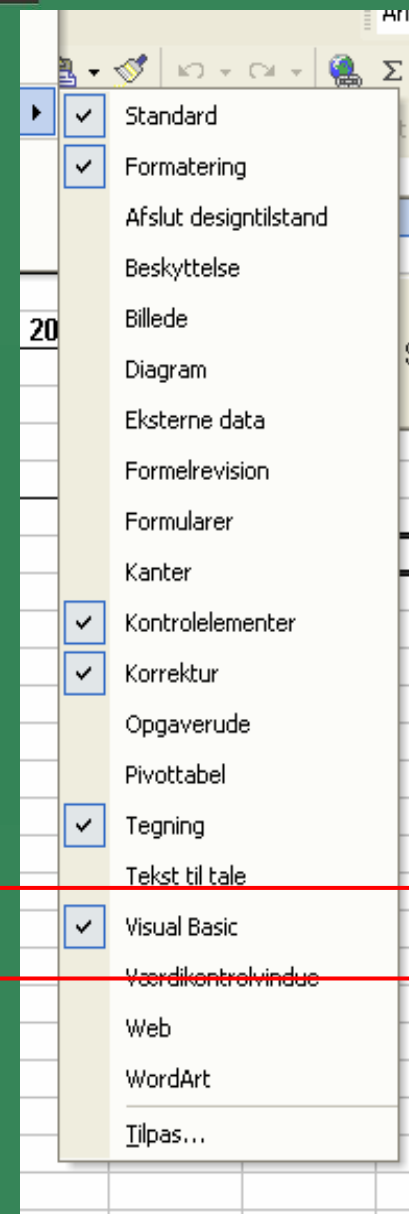
- Give each motor an address witht MacTalk ( 3 – 5 )
- Start Excel and set it up with Visual Basic
- Design the screen
- Setup the communication - MacComm
- Put in the program text
- Design end
- Run makro
- Change value in "Set mode" and "Set position"
- Press "Start" and the chosen motor will change to Position mode and run the position
- Press "Start" again and actual position at the screen will update.
- Press "Stop" and the motor will change to Passive mode



# OCX -driver

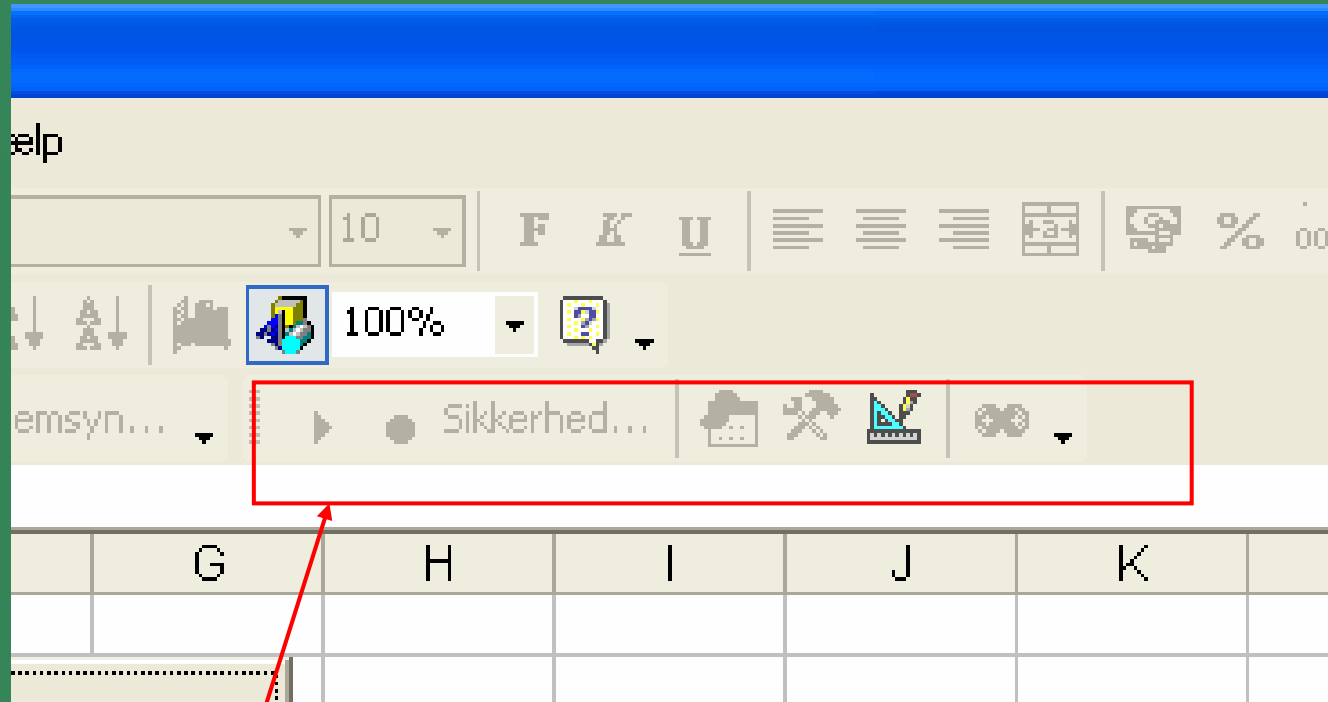


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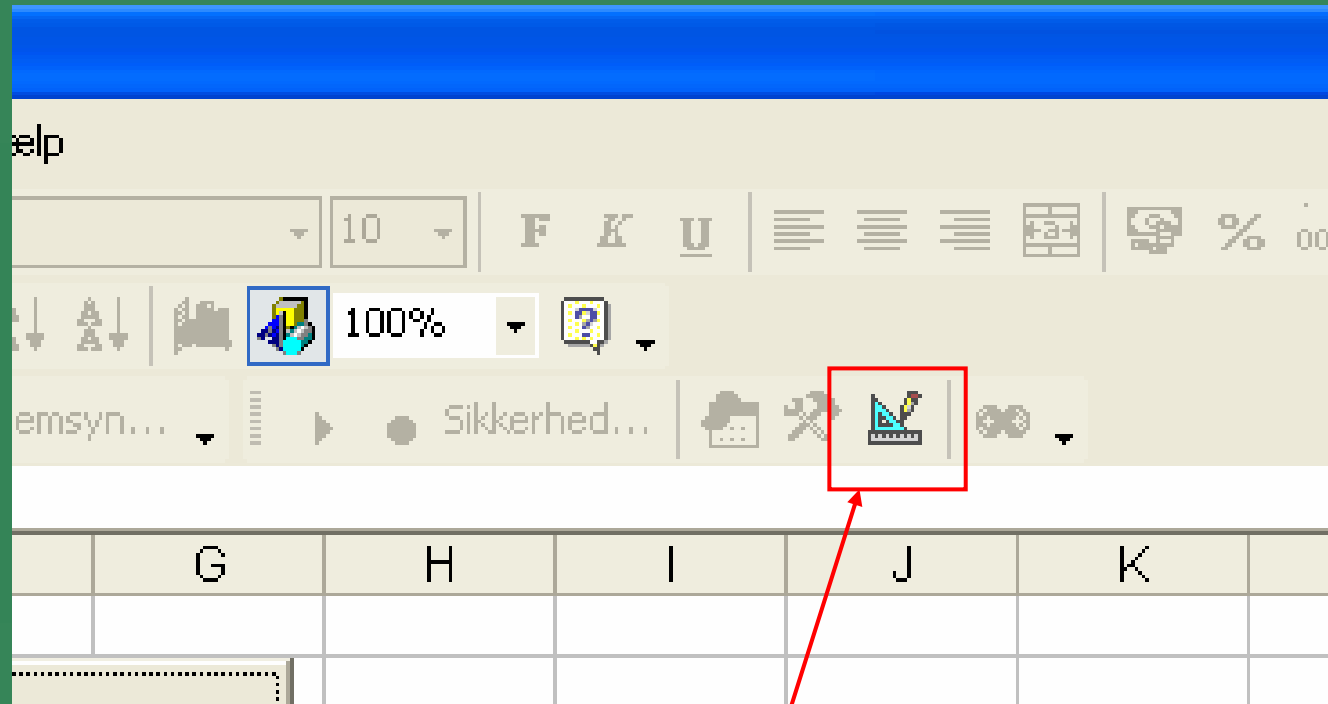
# OCX-demo in Excel



Visual Basic commands in Excel



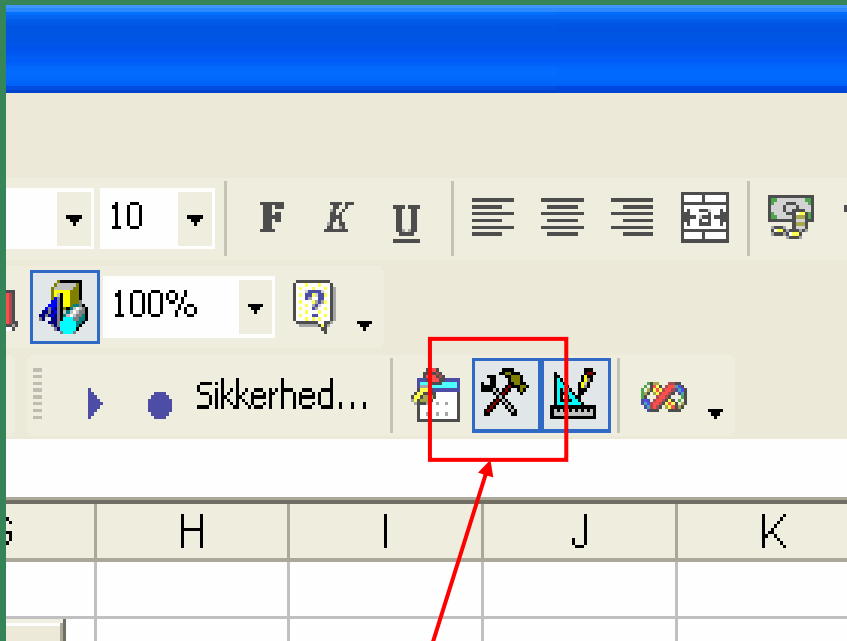
# OCX-demo in Excel



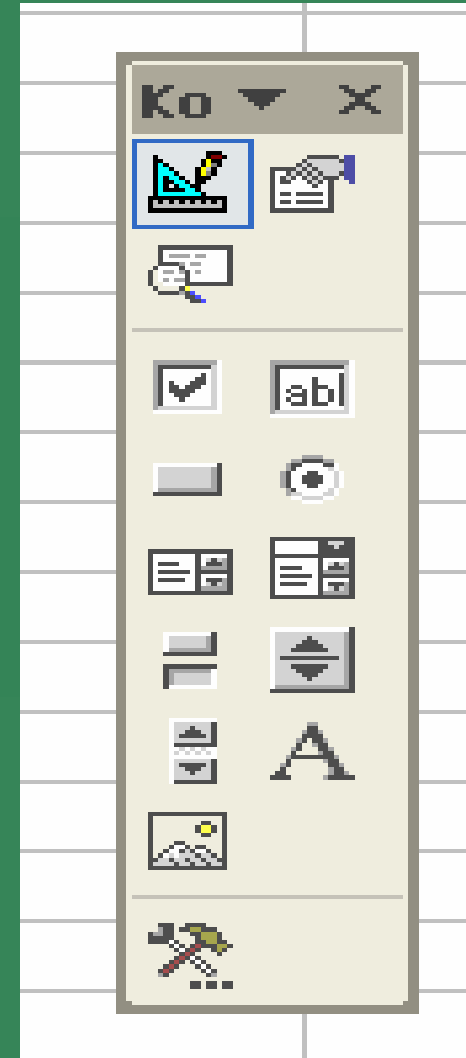
Design new application



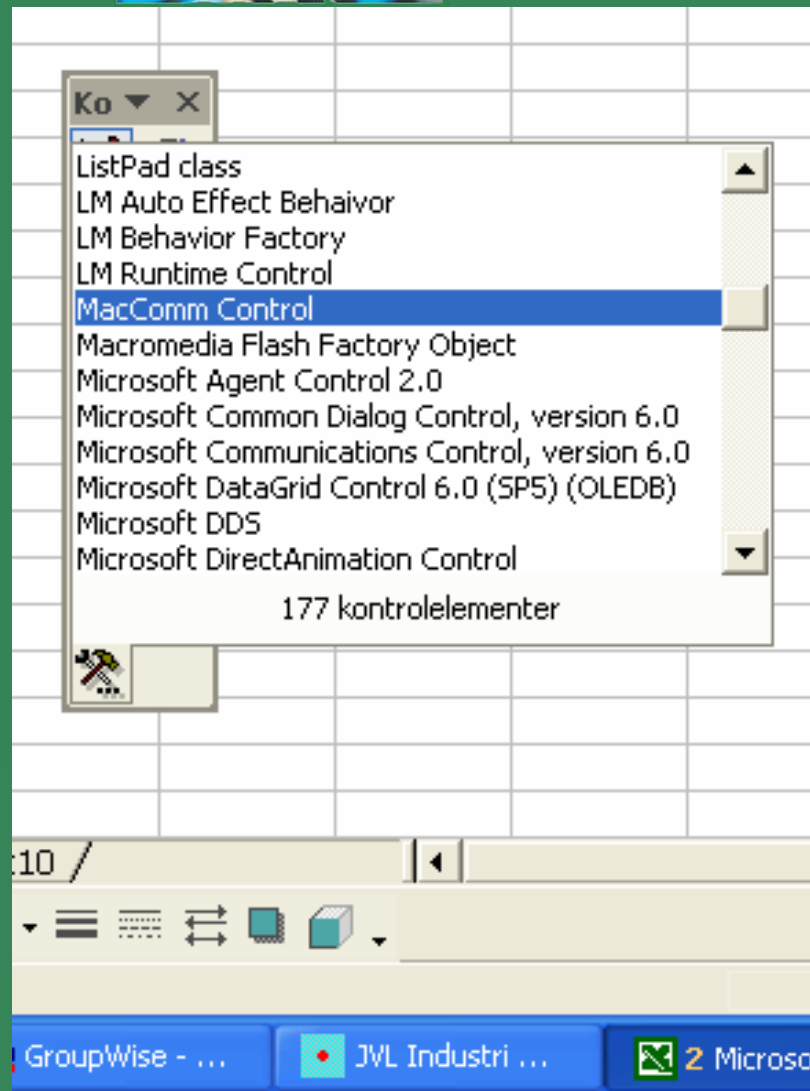
# OCX-demo in Excel



Control elements



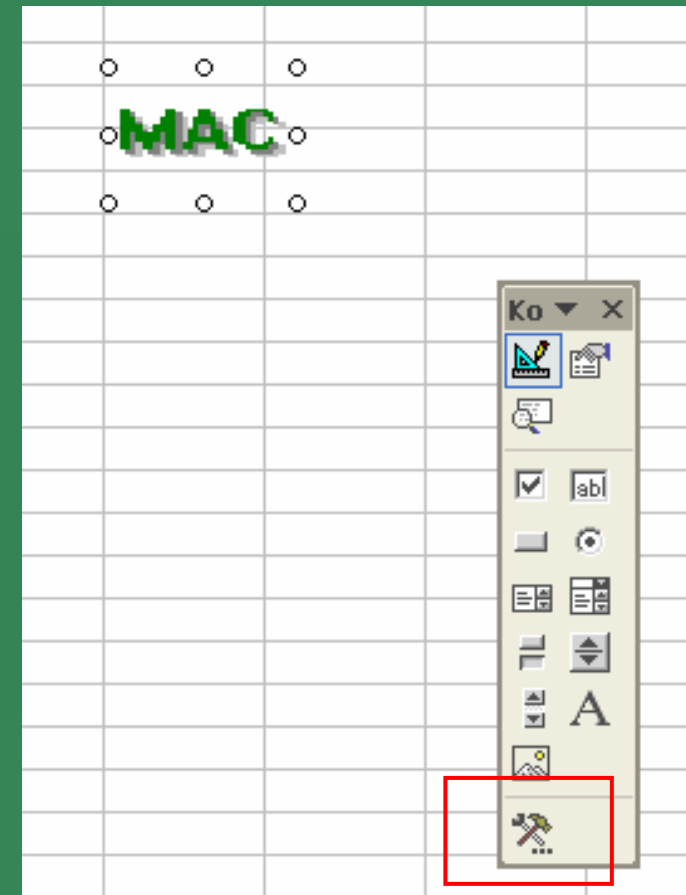
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A screenshot of a software interface showing a control palette. The palette is titled 'Ko' and contains a list of control elements. The element 'MacComm Control' is highlighted in blue. Below the list, it says '177 kontrolementer'. The palette is positioned over a grid background. At the bottom of the screen, there is a taskbar with several open applications: 'GroupWise - ...', 'JVL Industri ...', and '2 Microsoft ...'.

- ListPad class
- LM Auto Effect Behavior
- LM Behavior Factory
- LM Runtime Control
- MacComm Control**
- Macromedia Flash Factory Object
- Microsoft Agent Control 2.0
- Microsoft Common Dialog Control, version 6.0
- Microsoft Communications Control, version 6.0
- Microsoft DataGrid Control 6.0 (SP5) (OLEDB)
- Microsoft DDS
- Microsoft DirectAnimation Control

177 kontrolementer



A screenshot of a software interface showing a grid background. The word 'MAC' is written in large, green, outlined letters. To the right of the grid, there is a vertical toolbar with various icons. The icon at the bottom of the toolbar, which is a hammer and screwdriver, is highlighted with a red rectangle.

MAC







### Properties

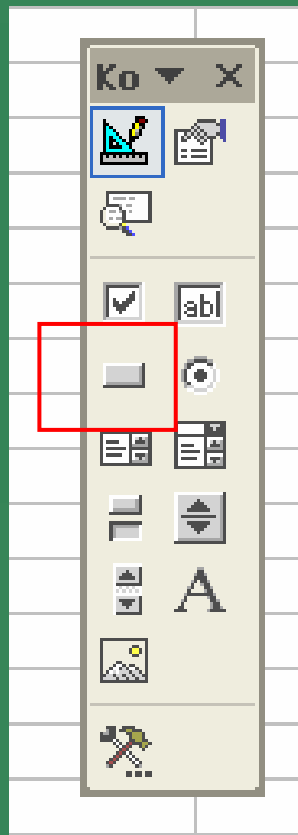
MacComm1 MacComm

Alphabetic Categorized

|             |          |
|-------------|----------|
| (About)     |          |
| (Custom)    |          |
| (Name)      | MacComm1 |
| AutoLoad    | False    |
| ComPort     | 2        |
| Enabled     | True     |
| Height      | 40,5     |
| Left        | 224,25   |
| Locked      | True     |
| Placement   | 2        |
| PrintObject | True     |
| Retries     | 5        |
| Shadow      | False    |
| Top         | 109,5    |
| Visible     | False    |
| Width       | 56,25    |



# CommandButton



Properties

CommandButton1 CommandButton

Alphabetic Categorized

|                  |                                                 |
|------------------|-------------------------------------------------|
| (Name)           | CommandButton1                                  |
| Accelerator      |                                                 |
| AutoLoad         | False                                           |
| AutoSize         | False                                           |
| BackColor        | <input type="checkbox"/> &H8000000F&            |
| BackStyle        | 1 - fmBackStyleOpaque                           |
| Caption          | Start                                           |
| Enabled          | True                                            |
| Font             | Arial                                           |
| ForeColor        | <input checked="" type="checkbox"/> &H80000012& |
| Height           | 54                                              |
| Left             | 223,5                                           |
| Locked           | True                                            |
| MouseIcon        | (None)                                          |
| MousePointer     | 0 - fmMousePointerDefa                          |
| Picture          | (None)                                          |
| PicturePosition  | 7 - fmPicturePositionAbo                        |
| Placement        | 2                                               |
| PrintObject      | True                                            |
| Shadow           | False                                           |
| TakeFocusOnClick | True                                            |
| Top              | 13,5                                            |
| Visible          | True                                            |
| Width            | 137,25                                          |
| WordWrap         | False                                           |

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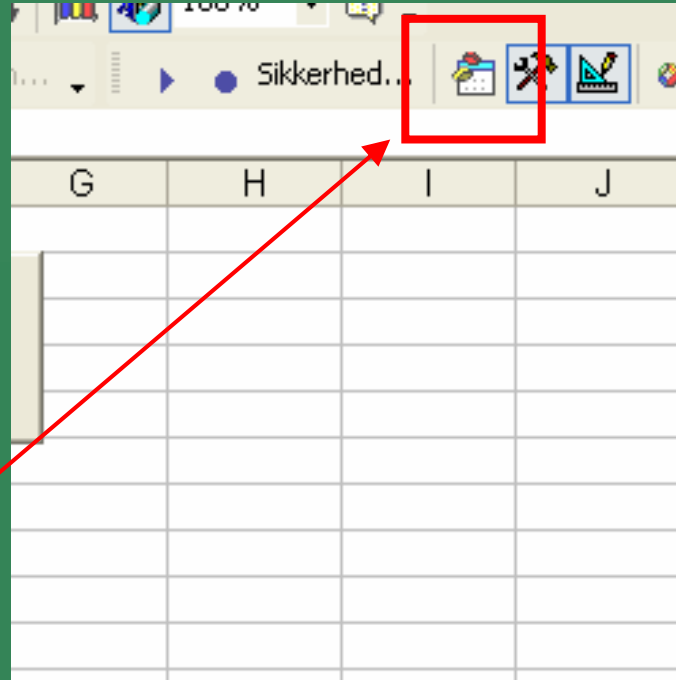
|   | A | B                    | C            | D |
|---|---|----------------------|--------------|---|
| 1 |   |                      |              |   |
| 2 |   | <b>Set mode:</b>     | <b>0</b>     |   |
| 3 |   | <b>Set position:</b> | <b>20000</b> |   |
| 4 |   |                      |              |   |
| 5 |   |                      |              |   |
| 6 |   |                      |              |   |
| 7 |   | <b>Result:</b>       | <b>-1</b>    |   |
| 8 |   |                      |              |   |
| 9 |   |                      |              |   |

Design screen





Program  
Text



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The screenshot shows a VBA editor window titled "OCX-demo-Excel.xls - Ark1 (Code)". The left pane shows a project tree with "Microsoft Excel Objects" containing "Ark1 (Ark1)" through "Ark9 (Ark9)" and "ThisWorkbook", and a "Modules" folder. The main editor area shows the code for a "Click" event on "CommandButton1".

```
Private Sub CommandButton1_Click()  
    Dim result As Integer  
    MacComm1.OpenPort  
    result = MacComm1.WriteParameter(255, 2, Cells.Range("C2"))  
    result = MacComm1.WriteParameter(255, 3, Cells.Range("C3"))  
    MacComm1.ClosePort  
    Cells.Range("C7") = result  
End Sub  
  
Private Sub MacComm1_GotFocus()  
End Sub
```

Address 255 – Commands sent to all motors



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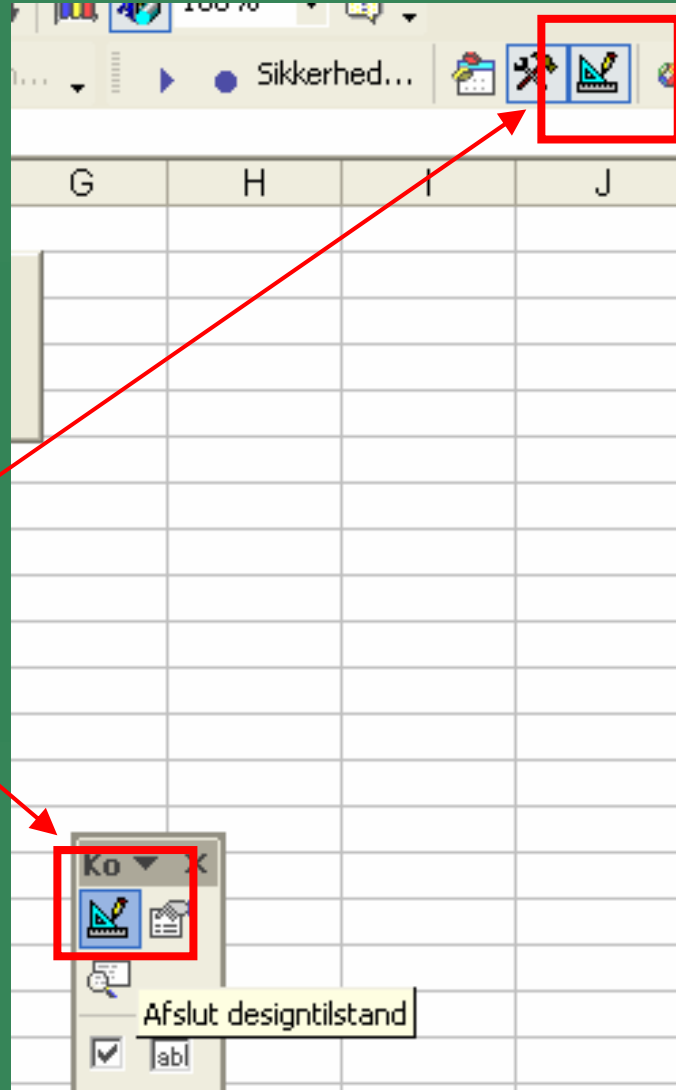


|               | B | C     | D     | E | F | G |
|---------------|---|-------|-------|---|---|---|
| Set mode:     |   | 0     | Start |   |   |   |
| Set position: |   | 20000 |       |   |   |   |
| Result:       |   | -1    |       |   |   |   |
|               |   |       | MAC   |   |   |   |





Design end





| A | B                    | C   | D            | E | F | G |
|---|----------------------|-----|--------------|---|---|---|
|   |                      |     |              |   |   |   |
|   | <b>Set mode:</b>     | 2   | <b>Start</b> |   |   |   |
|   | <b>Set position:</b> | 123 |              |   |   |   |
|   |                      |     |              |   |   |   |
|   | <b>Result:</b>       | -1  |              |   |   |   |
|   |                      |     |              |   |   |   |

Set mode and position and press "Start"

