

AutoCAD Macros – Installation

January 2024

The following VBA (Visual Basic for Applications) Macros have been written and are freely available “as-is”:

Balloon.dvb	Creates an automatically incremented number inside a Circle for reference purposes
ImportXYZ.dvb	Imports data points contained within a CSV file
ExportXYZ.dvb	Exports user selected points into a CSV file
Distance2.dvb	Displays 2-D linear distance between 2 points (& Diffs X, Y, & Z)
VectorDevs.dvb	Displays and plots the differences between design and as-built survey points
Angle2.dvb	Displays various queried angles between points & lines
PointID.dvb	Displays and plots user-selected point information
Dash.dvb	Connects consecutive pairs of points until terminated
Dimension.dvb	Calculates, displays and plots the X,Y dimensions of a rectangular object eg. Column
Transformation.dvb	Transforms (Scales, Rotates, Moves) an undefined drawing to known points

Also included: 3dcircle.lsp – A lisp routine that draw a 3-D circle through three 3-D points

1. Download & unzip the set of Macros appropriate for your version of AutoCAD

www.engineeringsurveyor.com/software/macros/2019U2.zip

www.engineeringsurveyor.com/software/macros/2024U.zip

	< 2019	2019	2020	2021	2022	2023	2024
2019U2.zip	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2024U.zip	No	No	No	Yes	Yes	Yes	Yes

2. Ensure you have downloaded & installed the VBAenabler Add-in for your version of AutoCAD

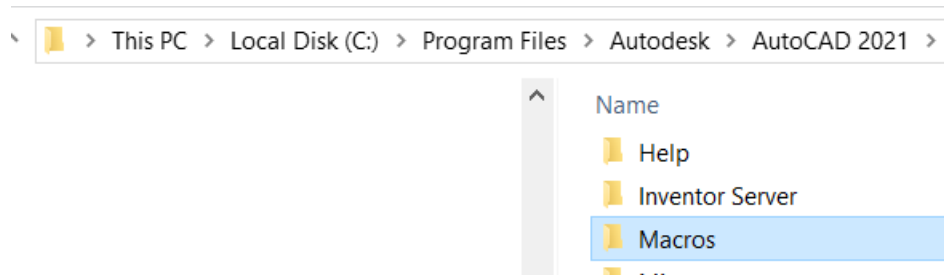
<https://www.autodesk.com/support/technical/article/caas/tsarticles/ts/3kxk0RyvfwTfSfAlrcmsLQ.html>

(If the above link is broken, Google “AutoCAD VBAenabler”)

The following procedure will show installation of *2024U.zip* macros onto *AutoCAD 2021* but other versions are similar...

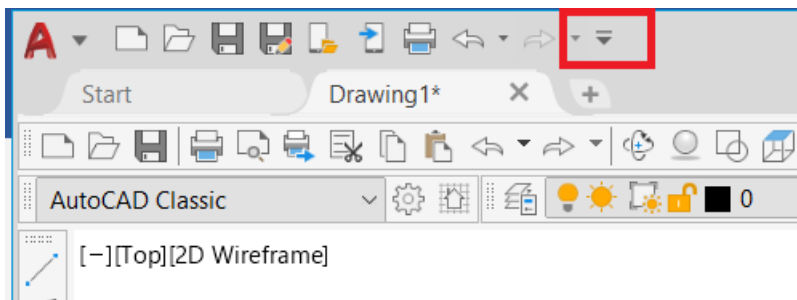
- Copy the macros to an easy to remember folder,

eg C:\Program Files\Autodesk\AutoCAD 20xx\Macros



- Start AutoCAD & Open a New or Existing Drawing

- If not shown already, turn on the “Menu-Bar” by clicking the drop-down icon

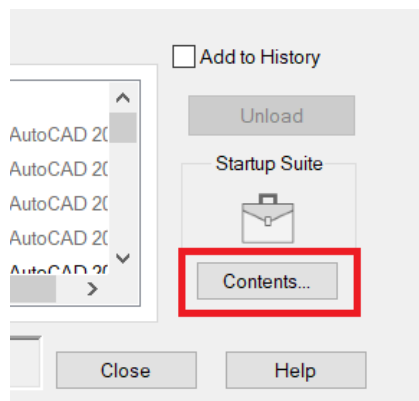


Tick “Show Menu Bar”

- Loading Macros

Menu: Select “Tools”, “Load Application”

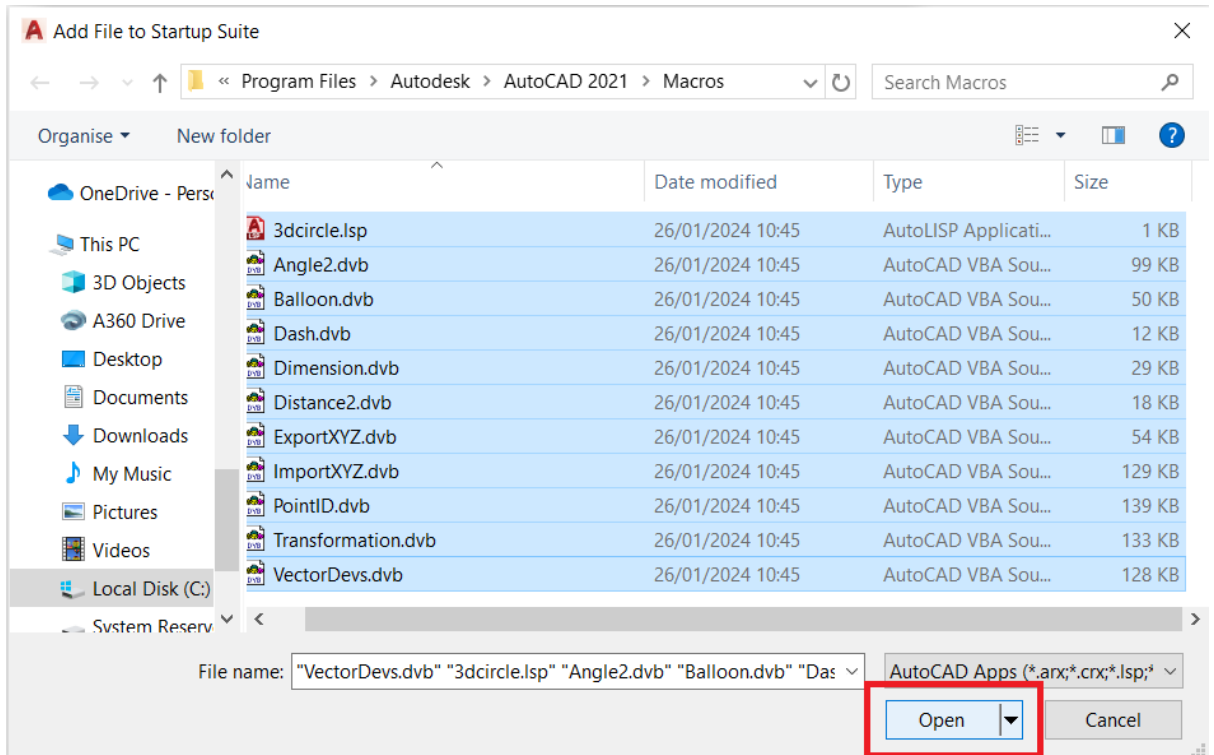
Select “Contents” in the Start-up Suite



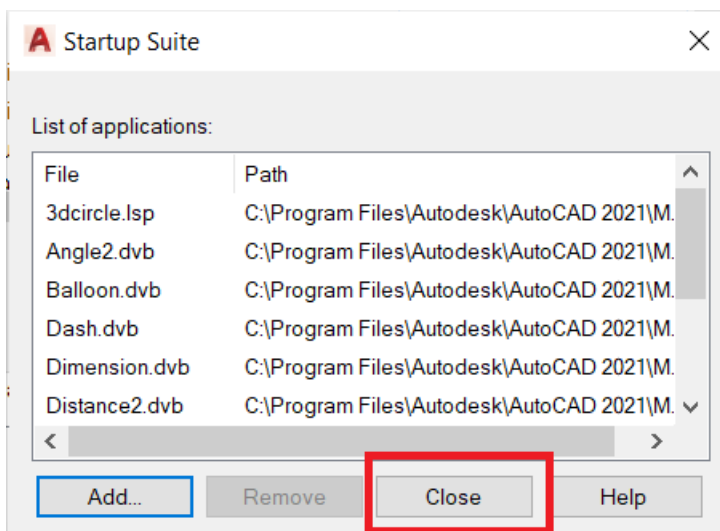
Select "Add"

Browse to the Macros folder and select all of the macros

Select "Open"



Select "Close", "Close" to close all dialog boxes.



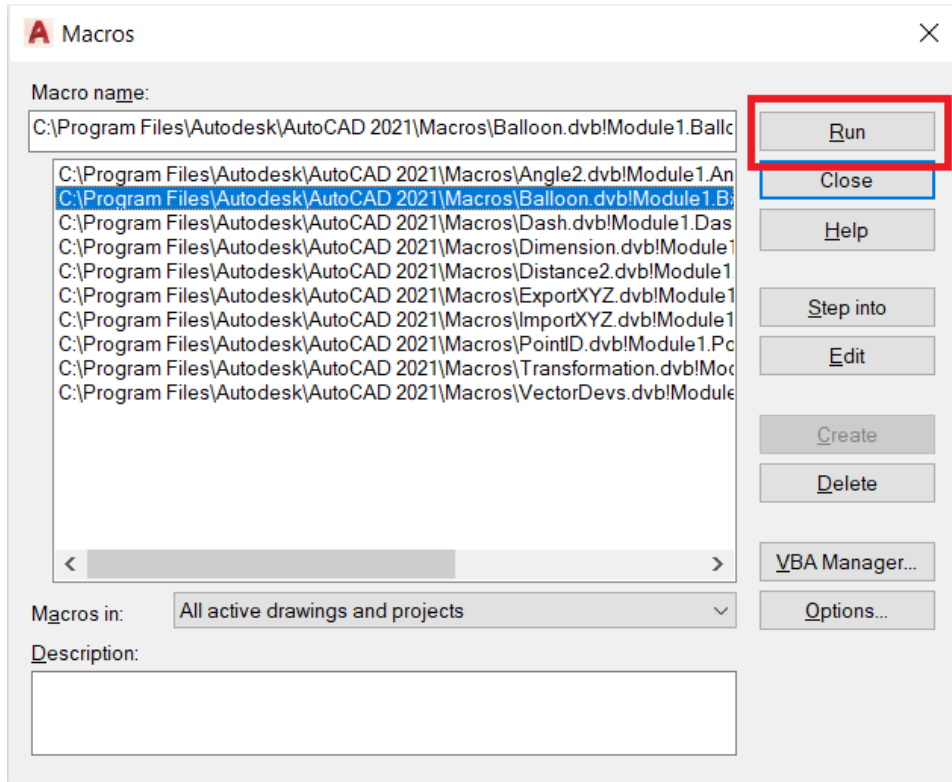
These macros will now be opened automatically each time AutoCAD starts

7. Running the Macros

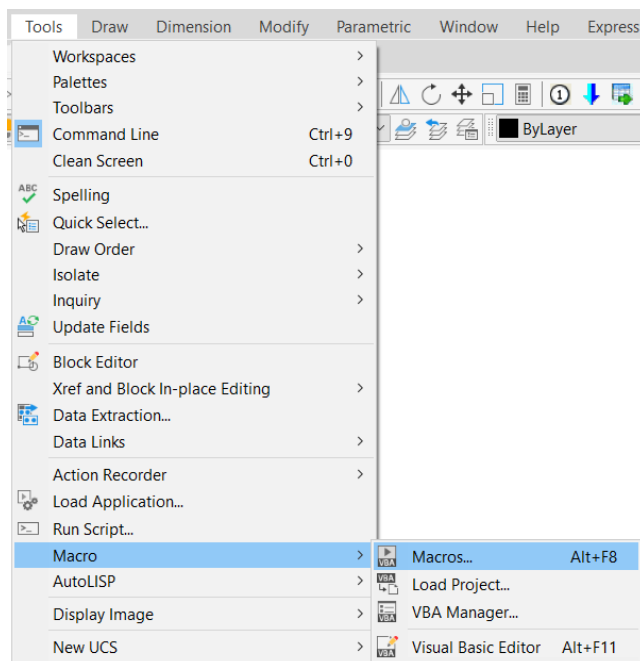
Either:

- (a) Display the list of Macros by pressing “Alt+F8”

Select the required macro, Select “Run”



- (b) Select “Tools”, “Macro”, “Macros” to display the above list

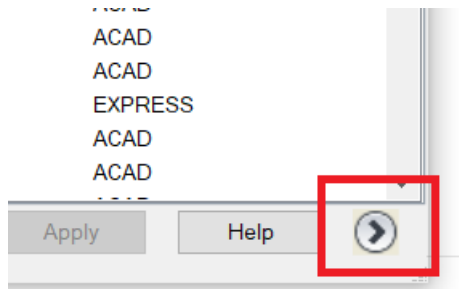


or

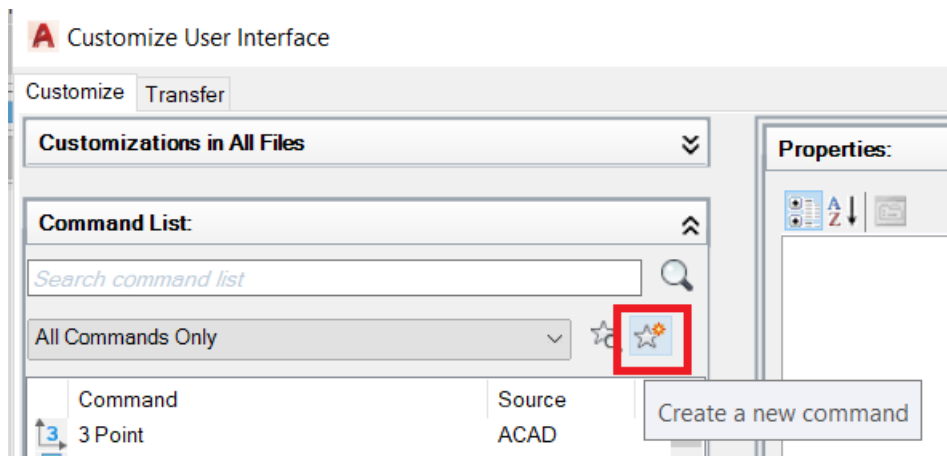
(c) User defined menu icon button

(i) Menu: Select “View”, “Toolbars”

(ii) Expand the dialog box by clicking the Arrow at the bottom-right

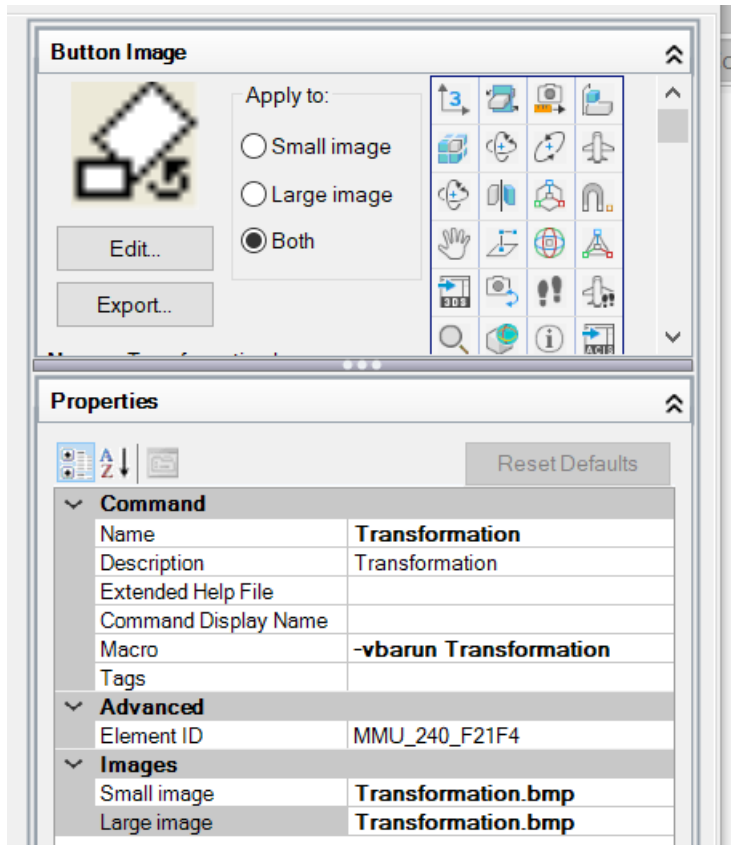


(iii) Create a new Command



You will need to create a New Command for each macro (**excluding LSP files**)

Eg To create a Transformation macro command:



Enter the following info only:

Transformation
Transformation

-vbarun Transformation (see below)

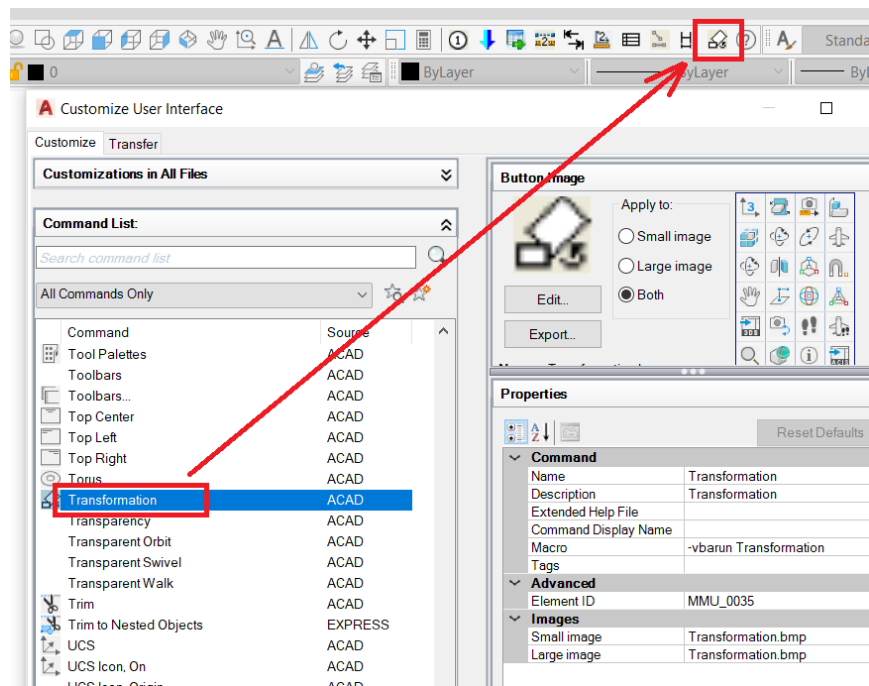
Do not change this box

(Browse to the macro folder and select the appropriate BMP file supplied)

** Note the hyphen before the vbarun command. **This is required.**
Change command to -vbarun ImportXYZ or -vba Balloon as required.

OPTION 1

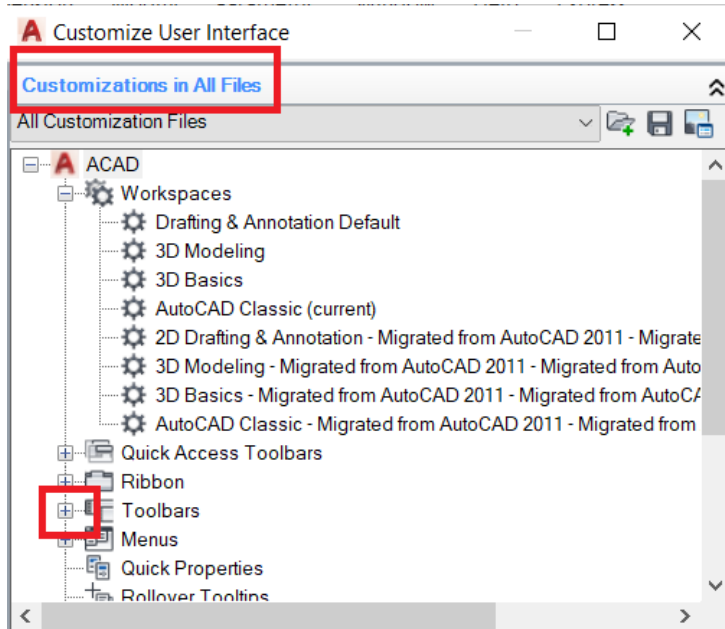
Drag the newly created Command into an existing toolbar...



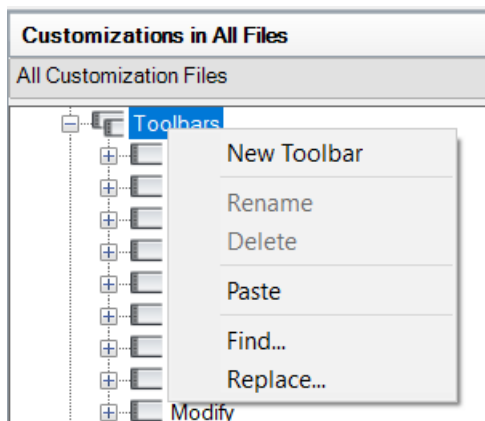
OPTION 2 - Create a new (macro) toolbar

Select “Customizations in All Files” to show the Customization directory.

Click the “+” Next to Toolbars to expand the view



Right-click “Toolbars” & Select “New Toolbar” from sub-menu

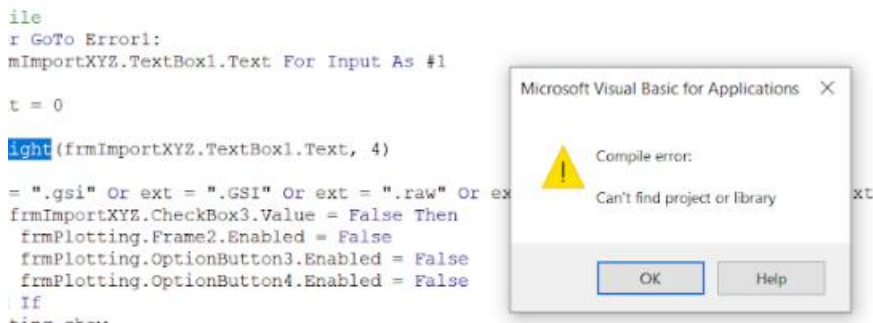


Create and name the new Toolbar. Eg Macros

The newly created Commands can now be dragged into the new Toolbar.

KNOWN ISSUE:

Users of AutoCAD 2024 have reported an “error” whilst using the Macros.

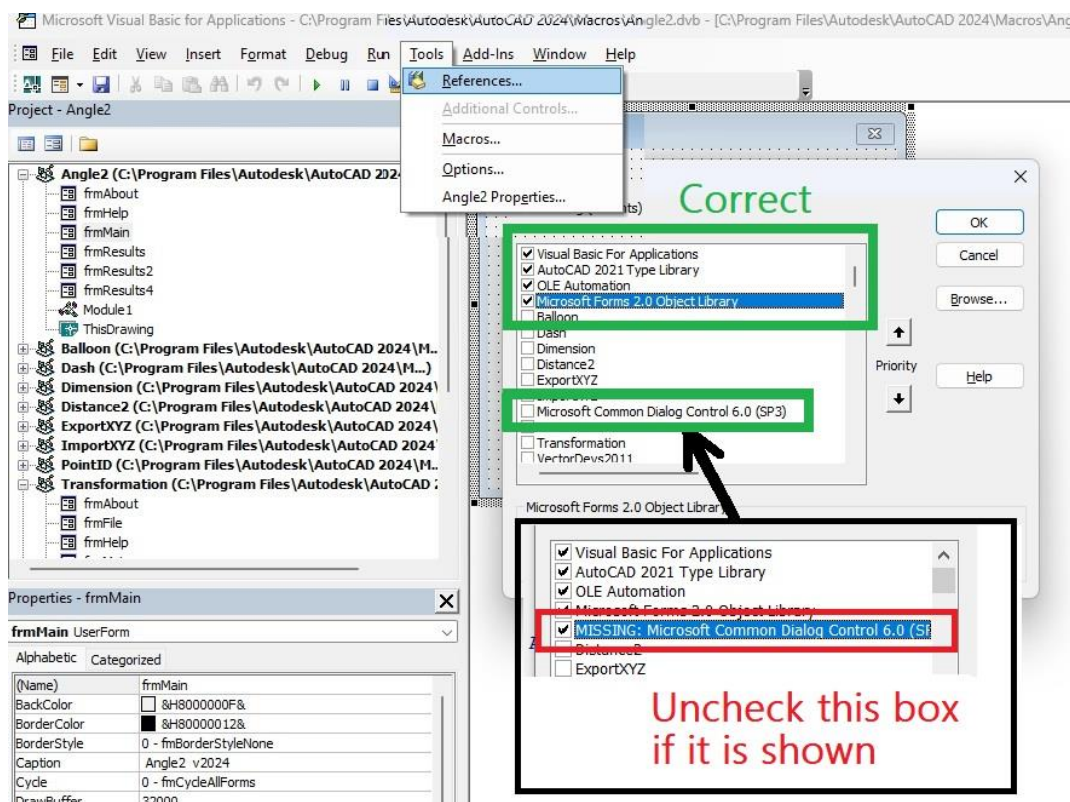


The macros crash stating that there is a missing control library. This is due to AutoCAD VBA trying to locate a superseded Dialogue Control version.

Solution:

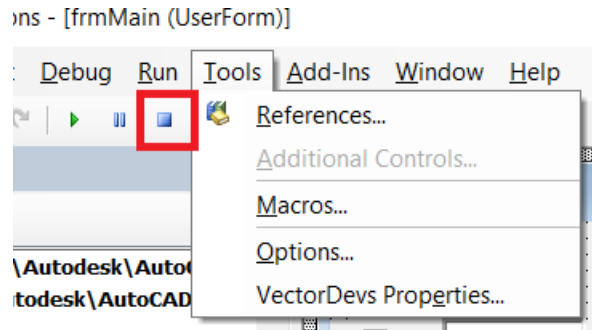
Open Visual Basic Editor (“Tools”, “Macro”, Visual Basic Editor” or ALT+F11)

Select “Tools”, “References” and uncheck any boxes that say “MISSING”



Note: If the word "References" is greyed out, then one or more macros are still running.

Click the "Stop/Reset" icon as shown



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