Robix[™] Script Language Quick Reference 2004-08-01 for Usbor (USB-connected) Systems

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```
Notation used below: Script Element(s), <Script Element(s) Needed>
```

```
Scripts are case-insensitive, so MOVE, move, and movE all have the same meaning. <servo list> or <digout list> represents a list such as 1 or 2,4,5 or ALL. Servo, digout numbering starts with 1 (not 0).
```

Vertical bar ' | 'means 'or', so on | off means use on or off.

<val> means an integer value is needed.

<posval> means an integer position is needed: <val> |minpos |maxpos | initpos
(xxx)... means xxx is needed one or more times, separated by ,'s.

Multiple commands on a single line need; separators. End-of-line; is optional.

means that the rest of the line is a comment.

Scripts can be created interactively and then run from the robot console program or from Java, C++, VB for more complex, sensor-based programs. See Reference at www.robix.com

```
Move commands move servos with coordinated motion:
move|jump (<servo list> to <posval> | by <val>)...
# e.g. move 1,2,3 to 0; jump 4 to initpos
# e.g. move 3,4 to -300, 1 to maxpos, 5 by -250
```

```
Position commands set servo values, auto-saved on close.

invert <servo list> on off  # Set servo direction

maxpos minpos <servo list> <val> default

initpos popos <servo list> <val> default

Remember: Servos go to last initpos at startup. Very useful!
```

Other Commands:

```
digout <digout list> on off  # digital outputs.
wait <val>  # Approx .1 sec units.
power <servo list> on off 1..100  # servo duty cycle: percent
```

Macro - Defining:

Macro - Calling, with repeat count specifier:

```
<macro name> <nothing> | <val> | 0  # Do 1 | <val> | inf time(s).
```

Basic Rotational Joints

