ShopBot Control Software COMMAND QUICK REFERENCE GUIDE

Parameters in Blue available in Version 3 only

		Eilo C	atag	ory Commands	1		Sotti	nas	Cot	OCC ONLY	Commands
Eiler and auto Deut E				<u> </u>	D)	_					Commands
File: execute Part F	116	_	JNm, fNm	{pX,pY,pZ,Rp,Ofst, plnge, Tb, z0, pA,	<i>pB</i> }	Mostly toggles Se			out p		ers
File: Edit File: New blank Par	et Eile	_	JIVM			Set to Absolute Di Set to Relative Dis				SA	
File: Goto/Single S			fN/m	{ pX, pY, pZ, Rp, Ofst, plnge, Tb, z0}		Set to PREVIEW I				SP	
File: Conversion	тер	_	fNm	{ px, p1, pz, kp, Ojsi, pinge, 10, 20}		Set to MOVE/CUT				SM	
File: Set drive/direct	etory			, mask		Set to Keyboard A			ro1		(shortcut = 'K')
File. Set drive/drice						cLear All Variable		Conti	101	SL	(Shortcut – K)
				gory Commands		Set Output Switch	/3			_	<i>Switch#(1-4), 1-ON, 0-Off</i> (#4 has options)
				or Relative Distance (SR)		Set Warning Durat	tion			_	Secs
Move X axis	M					Set Continuous Mo		ent B	lock		(files only) 0-OFF, 1-ON, 2-update & reset
Move Y axis Move Z axis	M) M2					revert to Table Bas				ST	(current location values will be lost)
Move 2 axis	M2	_	-z -X, ne	mu V		Set File and Move	Limi	t Che	ck	SF	0-OFF, 1-ON
Move 3 axis	M			ew-Y, new-Z		Switch to Table To	op Vie	ew			(also Space-Bar)
Move Home	MH			0, 0 in X, Y; with Safe-Z pull-up if en	abled)				ues		ory Commands
Move Acc axis	M.	`	-Acc ı		audicu)	Version:					er side for parameters in Version 2
Move B Axis	ME			runc		Values for Cutter,					Dia, kX, kY, sfZ, dirZplng, pk%, sfA
Move 4 Axis	M			w-Y, new Z, new-A		Values for Preview			_		X, tablY, tblZ, sim, rot, center, show jog, rnd
Move 5 Axis	M			w-Y, new Z, new-A, new-B		Variable Define				Name, 1	
Motors OFF		O or MC		, , ,		Values of Speeds			_		nvZ, mvA, mvB, jXY, jZ, jA, jB
Move Speeds	MS			e-Speed, Z-Move-Speed (see also [VS]])	Values of Ramp			_		mrZ, mrA, mrB, jrXY, jrZ, jrA, jrB
F				ory Commands		Values for taBbing	3				l-up, dist next, size, dist leads,1-ON 0-Off,#
Set Mode to Absolu				or Relative Distance (SR)		Values of locAtion	,	١,	٧٨	NEW vo	ulue for locX, locY, locZ, locA, locB,
Jog X axis		new-X	~. 1) 0	2. Admire Distance (SH)		values of focAtion	ı	\			alue for baseX, baseY, baseZ, baseA, baseB
Jog Y axis	JY	new-Y				Values for Units		,			Y, unZ, unA, CirRes, sCyX, sCyY,
Jog Z axis	JZ	new-Z							_	SmCir, <mark>u</mark>	
Jog 2 axes	J2	new-X,	new-	Y		Values for Display	7	V			#axes, units, unitsA, unitsB, consl, com, mote, wr part log, wr sys log
Jog 3 axes	J3			Y, new-Z							(, loY, hiY, loZ, hiZ, loA, hiA, 0-OFF 1-ON,
Jog Home	JH			n X, Y; with Safe-Z pull-up if enabled	1)	Values for table Li	imits	_ '		oB, hiB	
Jog Acc axis	JA	new-Ac				Values Input addre	esses	,	VI*	com#, i	iniSeg, regSeg, corRate, drv1, drv2, drv3,
Jog B Axis	JB	new-B				(Change Axis addr	ress)		VI (drv4, sp	d, drv5
Jog 4 Axis	J4	new-X,	new-Y	Y, new Z, new-A		Values iNput swite			_		Stop Switch setting
Jog 5 Axis	J5	new-X,	new-Y	Y, new Z, new-A, new-B		Value Height Cont					spd, noChg
Jog Speeds	JS	X-Jog-	Speed	l, Z-Jog-Speed (see also [VS])		Not used in Versi					See other side or Com Ref for more info
		Cut C	atego	ory Commands				Reco	ord	Categ	ory Commands
CUTS Outside, Insi	ide, o	True; S	et <u>Cu</u>	itter Diameter with [VC]		Record Replay	RR	{#Ca	ommo	andsBac	ck [blank=1] [A=ALL], #Reps
Cut Circle	СС	Dia {,C)-I-T ,	Dir, B<, E<, Plunge, Rep, pX,pY		Replay All	RP				
	55	[1 - Tab	2-Pck	kt 3-Spr 4-SprBp], 1-no pullup, 1-plgf	rom0}	Record Save &	Pe	/F;1	n cu	#C~~	mandsRack [blank=4111)
Center Point	СР	Dia $\{x,$	y, O-1	I-T, Dir, B<, E<, Plunge, Rep, pX, pY,	0;	edit	κs	{rue	пате	, #C <i>om</i>	mandsBack [blank=ALL]}
Circle				ckt 3-Spr 4-SprBp], 1-no pullup,1-plgfi		Record Activate	RA				
Cut quick Arch	CA			t {,O-I-T, Dir, Alignmnt<, Plng, Rep, ¡ 1-no pull-up, 1-plgfrom0}	pX,	Record Inactivate	RI				
		_		ndY, Xcent, Ycent {,O-I-T, Dir,Plg,Rep	p.pX.	Reset Record	RZ				
Cut G-code Circle	CG			2-Pckt 3-Spr 4-SprB], 1-no-up, 1-plgfr				TIHI	ity (Categ	ory Commands
Cut Rectangle	CR			engthY, O-I-T, Dr, Strt, Plg, Rp, [1-Ta	b	Utility: Name Edit					} filename [default=EDIT] (Notepad OK)
		2-Pck	t], 1-p	plunge from 0}		Utility: calcUlator	.UI		UU (ı uın α	f Juename [actaun=ED11] (Notepad OK)
Custom Cut Setup	CS					Utility: List Variat	oles			Aist car	n be edited and/or saved)
				gory Commands		Utility: display Va		0_		, cur	to canca anator sureuj
	meter	s Requir	1	eroing Happens on 2 nd Letter of Comn	nand	settings		" l	UV		
Zero X axis			ZZ		ι	UR /	A=All ı	values including calibration and location}			
Zero Y axis					Utility: Save current config US		US				
Zero Z axis						Utility: Diagnostic display		av I	UD (UD are automatically saved in
Zero Acc Axis))		ZA			, , ,		,			LEM.LOG)
Zero B Axis			ZB			Utility: Install Firmware					Control Box Firmware)
Zero X & Y (2D)))		Z2			Utility: Calibrate		Į			d in Version 3, see Command Reference
Zero X, Y, & Z (31	J)		Z3								al <u>Tools</u>
Zero All 4 Axes			Z4			Part Wizard	TP				zard from ShopBot Control Software
Zero All 5 Axes	oord.	antos	Z5	(Pagets Legation in terms of P. V.	/alwag)	Typesetter	TT	_			on your computer
Zero Table Base Co	ooran	iates	ZT	(Resets Location in terms of Base V	aiues)	Copy Machine	TC	_			ing Probe to copy existing models
						Drill Press	TD				for drilling holes
			<u> </u>	1		Header Writer	TH	Inse	ert no	otes abo	ut bits, ,zeroing locations, etc to .sbp files

				. a. a												
		# baram	1	2	3	4	5	9	2	8	თ	10	11	12	13	41
	===== FILE COMMANDS										ä	ditional pai	ameters in	additional parameters in Version 3 only		
FP	Part File Load & Execute	11 fl		Xd	pY	J Zd	Rp	Ofst	plnge	Tb	20	bA	pB			
出	Edit a Part File															
	Go To a Line in a Part File			pX		pZ Zq		Ofst	plnge	Tb	z0	bĄ	pB			
	Convert a file to sbp			dxf or gcode or hpgl		filename (.dxf, etc)	etc)									
FS	Set Directory for PART Files	2	path	mask												
	== CUT COMMANDS															
ပ္ပ	Circle/Arc	12 Dia		1-l-0	Dr	B<	E<	Plg	Rp	Χd	λd	t-p-s-b	dU0	z0		
	Circle/Arc from Center Point	14 Dia			сY	1-I-O			E<	Plg	Rp	Xd	ρΥ	t-p-s-b 0Up		20
CA	Arch (Quick Define)	12 L	Len	Ŧ	0-l-T		A<	Plg	Rp	Xd	ρΥ	tab	dno			
	Code Format Circle Arc	14 E	Dia	eX	eY			T	Dr	Plg	Rp	Xd	pY	t-p-s-b		
CR	Rectangle	10	lenX	lenY	O-I-T	Dr	B<	Plg	Rp	tb-pkt	0z	R<				
		\dashv												-		
	====== VALUE COMMANDS VERSION 3 (WINDOWS)	OQN	(SMc								Ø	dditional pa	rameters in	additional parameters in Version 3 only		
	If you are using Version 3 on your design computer, and Version 2 on y	sign	computer,	and Versic	n 2 on you	nopBot	computer,	use the Ve	rsion 2 paı	emeters in	n your .sbp	file (see be	low)			
ΛC	Cutter Diameter and Safe Z Pull Up	7 d		kX	kY		dirZplng	pkt%	sfA	sfB						
ΛÞ	Preview Screen Set Up	8 grid		tblX	tblY	tblZ s		rot	center	jog	pu					
^/	Variable Define	2 r	2 name	value												
NS	Speed Settings	8 n	mvXY	Znu	mvA	mvB j	ΙΧΥ	ZÍ	λĮ	jB						
	Ramp Values	12 n	mrXY		mrA		jrXY		jrA	jrB	distrM	distrJ	%T	minD		
	Tabbing Values	7 U	np	next	size	leads	ON-OFF	num	dist							
۸A	Axis Location Reset (Careful)		locX	locY	locZ	locA		~	baseY	baseZ	baseA	baseB				
NΩ	Unit Values (Calibration)	о 6	nnX	unY	unZ	nnA (CirRes	sCyX	sCyY	SmallCir	nnB					
ΛD	Display Settings	11 p	prmpts #	#axes	units	sA	unitsB	consl	com	fDist	remote	write part	write part Idwrite sys log	DC DC		
۸۲	Limits for Table or Work Area	11 10	loX I		loY	hiY	loZ	hiZ	loA	hiA	NO	loB	hiB			
IN	Changes Axis Address			g	regSeg	corRate	drv1	drv2	drv3	drv4	pds	drv5				
N/	iNput Switch)												
H>	Height Control Plasma	3	modeH	pds	noChg											
	SOO ENGINEER IN VIOLENCE OF THE SOUNT WINDS		VEDGION	(900)												
	f vol. are lising Version 3 on vol.r design complifer and Version 2 on v	sion	complifer	and Versic	lov no 5 no	Our ShonBot computer use the Version 2 parameters in volur sho file	computer	ISP the Ve	rsion 2 nar	ameters in	n voiir shn	file				
ΛV	Preview Screen Setup	7	ZoomScale	bottmX	bottmY	MaterialThickridelav	delav	aspect	1-track ON							
	Speed Settings	9		Spd	a-MoveSpd	xy-JogSpd z	Spd	a-JogSpd								
٧R	Vamp Values	8		mvZ-ramp	mvA-ramp	0	jogZ-ramp	_	move ramp disjog ramp dis	sjog ramp dis	Thresh%	min				
^T^	Tolerances (encoder sensitivity [1000	s 9	StepStall[1000 StepSlip[20]		StartSlip[10]					ProcSpeed						
۸A	Axis Location Reset (Careful!!!)	8	NEW value for Y	Y	Z	acc	TableBase X	Υ .	Z	acc						
ΛD	Display Settings	4 P	Prompts (1-Oľ	Prompts (1-Of ColorScheme Units (0-inches 1-metric)	Units (0-inche	s 1-metric)										
VE*	End Angle Default for Circle Command	_	1-spec full as s	1-spec full as strt +360deg 0-also allow 0deg full [old vers]	-also allow 0de	g full [old vers]										
VK*	BacKlash Settings (not implemented		EncX		MchX	MchY	MchZ	MchA	RunAv							
	Addresses (rarely need changing)	8	COMM Port# iniSeg		regSeg	corRate			Z#	A#						
FK*	checK Syntax in a PART File	_ _	filename													
	*these commands are not used in Version 3	ion 3														