

THERMOCODE SERIES 2

MECHANICAL VARIABLES (Descriptions & Limits)

ISSUE 2.1

Designed and manufactured by;

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Foreword

Mechanical Variable Parameters

Shown within this manual are some internal software settings, they allow specific control of the Stepper Motors and their associated timing controls that may prove useful to change for specialist type applications.

Please do not change any of these settings, unless you are certain of what you are doing.

Each command can be requested individually. When requesting a specific command name, the printer will respond by sending out the command name followed by the value that has been set. Check the named variable to ensure that you understand what the value represents, and how it will affect the printer performance.

General Programming Notes

1. All lines prefixed by an Escape code (character 27) and a zero (character 48)
2. All lines terminated by a line feed (character 10). A carriage return followed by line feed is also acceptable (character 13 followed by character 10).
3. Null lines allowed. (carriage-return and line feed with no other data).

ACCRIBBON = Acceleration of Ribbon Stepper Motor**Description:- Intermittent Printers Only**

Allows the user to set the acceleration rate of the ribbon stepping motor.

System Variable Name: -	=	Esc0XPACCRIBBON
RecoverMode Identifier: -	=	ACCRIBBON
Termode Identifier: -	=	Esc0XPACCRIBBON
Type of Units: -	=	Steps/Second²
Intermittent Default Value: -	=	5,000
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	Not used as mechanical rewind, from linear travel.
Minimum Value: -	=	0
Maximum Value: -	=	60,000
Request Command: -	=	Esc0ZXPACCRIBBON
Received String: -	=	Esc0XPACCRIBBON 5000
Send Command: -	=	Esc0XPACCRIBBON 5000

ACCVERT = Acceleration of Vertical Stepper Motor**Description:- All Printers**

Allows the user to set the acceleration rate of the vertical stepping motor.

System Variable Name: -	=	Esc0XPACCVERT
RecoverMode Identifier: -	=	ACCVERT
Termode Identifier: -	=	Esc0XPACCVERT
Type of Units: -	=	Steps/Second²
Intermittent Default Value: -	=	5,000
Continuous Default Value:-	=	5,000
53E Default Value:-	=	5,000
Minimum Value: -	=	0
Maximum Value: -	=	30,000
Request Command: -	=	Esc0ZXPACCVERT
Received String: -	=	Esc0XPACCVERT 5000
Send Command: -	=	Esc0XPACCVERT 5000

COACRIBB = Acceleration of Ribbon Stepper Motor**Description:- Continuous Printers Only**

Allows the user to set the acceleration rate of the ribbon stepping motor.

System Variable Name: -	=	Esc0XPCOACRIBB
RecoverMode Identifier: -	=	COACRIBB
Termode Identifier: -	=	Esc0XPCOACRIBB
Type of Units: -	=	Steps/Second²
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	60,000
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	60,000
Request Command: -	=	Esc0ZXPCOACRIBB
Received String: -	=	Esc0XPCOACRIBB 60000
Send Command: -	=	Esc0XPCOACRIBB 60000

CODCRIBB = De-acceleration of Ribbon Stepper Motor**Description:- Continuous Printers Only**

Allows the user to set the de-acceleration rate of the ribbon stepping motor.

System Variable Name: -	=	Esc0XPCODCRIBB
RecoverMode Identifier: -	=	CODCRIBB
Termode Identifier: -	=	Esc0XPCODCRIBB
Type of Units: -	=	Steps/Second²
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	60,000
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	60,000
Request Command: -	=	Esc0ZXPCODCRIBB
Received String: -	=	Esc0XPCODCRIBB 60000
Send Command: -	=	Esc0XPCODCRIBB 60000

COKNRIBB = Continuous Knee Speed**Description:- Continuous Printers Only**

Allows the user to set the knee speed of the ribbon stepping motor.

System Variable Name: -	=	Esc0XPCOKNRIBB
RecoverMode Identifier: -	=	COKNRIBB
Termode Identifier: -	=	Esc0XPCOKNRIBB
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	200
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	600
Request Command: -	=	Esc0ZXPCOKNRIBB
Received String: -	=	Esc0XPCOKNRIBB 200
Send Command: -	=	Esc0XPCOKNRIBB 200

COREVRIBB = Continuous Reverse Function**Description:- Continuous Printers Only**

Allows the user to turn the reverse function off, whilst printing.

System Variable Name: -	=	Esc0XPCOREVRIBB
RecoverMode Identifier: -	=	COREVRIBB
Termode Identifier: -	=	Esc0XPCOREVRIBB
Type of Units: -	=	Integer
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	1
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	1
Request Command: -	=	Esc0ZXPCOREVRIBB
Received String: -	=	Esc0XPCOREVRIBB 1
Send Command: -	=	Esc0XPCOREVRIBB 1

COSLRIBB = Continuous Slope of Ribbon Acceleration Decay**Description:- Continuous Printers Only**

Allows the user to change the slope decay percentage, for the ribbon motor.

System Variable Name: -	=	Esc0XPCOSLRIBB
RecoverMode Identifier: -	=	COSLRIBB
Termode Identifier: -	=	Esc0XPCOSLRIBB
Type of Units: -	=	Percentage
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	25
53E Default Value:-	=	Not Used
Minimum Value: -	=	10
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPCOSLRIBB
Received String: -	=	Esc0XPCOSLRIBB 25
Send Command: -	=	Esc0XPCOSLRIBB 25

COSPRIBB = Continuous Ribbon Stop Speed**Description:- Continuous Printers Only**

Allows the user to change the ribbon stop speed.

System Variable Name: -	=	Esc0XPCOSPRIBB
RecoverMode Identifier: -	=	COSPRIBB
Termode Identifier: -	=	Esc0XPCOSPRIBB
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	150
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	600
Request Command: -	=	Esc0ZXPCOSPRIBB
Received String: -	=	Esc0XPCOSPRIBB 25
Send Command: -	=	Esc0XPCOSPRIBB 25

COTENSARM = Continuous Initial Tension of Arm**Description:- Continuous Printers Only**

Allows the user to change the position of the brake arm, so the tension can be set to be same as the when replacing the cassette.

System Variable Name: -	=	Esc0XPCOTENSARM
RecoverMode Identifier: -	=	COTENSARM
Termode Identifier: -	=	Esc0XPCOTENSARM
Type of Units: -	=	mm
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	12
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	50
Request Command: -	=	Esc0ZXPCOTENSARM
Received String: -	=	Esc0XPCOTENSARM 12
Send Command: -	=	Esc0XPCOTENSARM 12

DCCRIBBON = Ribbon De-acceleration Rate**Description:- Intermittent Printers Only**

Allows the user to change the ribbon de-acceleration rate.

System Variable Name: -	=	Esc0XPDCCRIBBON
RecoverMode Identifier: -	=	DCCRIBBON
Termode Identifier: -	=	Esc0XPDCCRIBBON
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	5000
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	60000
Request Command: -	=	Esc0ZXP COSPRIBBON
Received String: -	=	Esc0XPDCCRIBBON 5000
Send Command: -	=	Esc0XPDCCRIBBON 5000

DELRIBBON = Delay before Ribbon Motor Starts**Description:- All Printers**

Allows the user to change the delay before the ribbon starts moving.

System Variable Name: -	=	Esc0XPDELRIBBON
RecoverMode Identifier: -	=	DELRIBBON
Termode Identifier: -	=	Esc0XPDELRIBBON
Type of Units: -	=	milliseconds
Intermittent Default Value: -	=	5
Continuous Default Value:-	=	5
53E Default Value:-	=	Not Used, Mechanical via Linear Travel.
Minimum Value: -	=	5
Maximum Value: -	=	100
Request Command: -	=	Esc0ZXPDELPRIBBON
Received String: -	=	Esc0XPDELRIBBON 5000
Send Command: -	=	Esc0XPDELRIBBON 5000

FACHORIZ = Horizontal Forward Acceleration Rate**Description:- Intermittent Printers Only**

Allows the user to change the horizontal Forward Acceleration Rate.

System Variable Name: -	=	Esc0XPFACHORIZ
RecoverMode Identifier: -	=	FACHORIZ
Termode Identifier: -	=	Esc0XPFACHORIZ
Type of Units: -	=	Steps/Seconds²
Intermittent Default Value: -	=	5,000
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	10,000
Minimum Value: -	=	0
Maximum Value: -	=	60,000
Request Command: -	=	Esc0ZXPFACHORIZ
Received String: -	=	Esc0XPFACHORIZ 5000
Send Command: -	=	Esc0XPFACHORIZ 5000

FIXSPEED = Does Not Allow Printing Whilst Accelerating**Description:- Intermittent Printers Only**

Allows the user to change this variable, so all prints only work at the specified print speed.

System Variable Name: -	=	Esc0XPFIXSPEED
RecoverMode Identifier: -	=	FIXSPEED
Termode Identifier: -	=	Esc0XPFIXSPEED
Type of Units: -	=	Integer
Intermittent Default Value: -	=	0
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	0
Minimum Value: -	=	0
Maximum Value: -	=	1
Request Command: -	=	Esc0ZXPFIXSPEED
Received String: -	=	Esc0XPFIXSPEED 0
Send Command: -	=	Esc0XPFIXSPEED 0

FSTHORIZ = Forward Starting Speed Horizontal motor**Description:- Intermittent Printers Only**

Allows the user to change the forward starting speed of the horizontal motor.

System Variable Name: -	=	Esc0XPFSTHORIZ
RecoverMode Identifier: -	=	FSTHORIZ
Termode Identifier: -	=	Esc0XPFSTHORIZ
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	60
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	100
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPFSTHORIZ
Received String: -	=	Esc0XPFSTHORIZ 0
Send Command: -	=	Esc0XPFSTHORIZ 0

MAXCONT = Maximum Continuous Print Speed**Description:- Continuous Printers Only**

Allows the user to change the maximum print speed.

System Variable Name: -	=	Esc0XPMAXCONT
RecoverMode Identifier: -	=	MAXCONT
Termode Identifier: -	=	Esc0XPMAXCONT
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	Not Used
Continuous Default Value:-	=	900
53E Default Value:-	=	Not Used
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPMAXCONT
Received String: -	=	Esc0XPMAXCONT 900
Send Command: -	=	Esc0XPMAXCONT 900

MAXHORIZ = Maximum Horizontal Print Speed**Description:- Intermittent Printers Only**

Allows the user to change the maximum horizontal print speed.

System Variable Name: -	=	Esc0XPMAXHORIZ
RecoverMode Identifier: -	=	MAXHORIZ
Termode Identifier: -	=	Esc0XPMAXHORIZ
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	300
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	150
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPMAXHORIZ
Received String: -	=	Esc0XPMAXHORIZ 300
Send Command: -	=	Esc0XPMAXHORIZ 300

MAXRIBBON = Maximum Ribbon Speed**Description:- Intermittent Printers Only**

Allows the user to change the maximum ribbon speed.

System Variable Name: -	=	Esc0XPMAXRIBBON
RecoverMode Identifier: -	=	MAXRIBBON
Termode Identifier: -	=	Esc0XPMAXRIBBON
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	300
Continuous Default Value:-	=	Not Used
53E Default Value:-	=	300
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPMAXRIBBON
Received String: -	=	Esc0XPMAXRIBBON 300
Send Command: -	=	Esc0XPMAXRIBBON 300

MAXVERT = Maximum Vertical Speed**Description:- All Printers**

Allows the user to change the maximum vertical speed.

System Variable Name: -	=	Esc0XPMAXVERT
RecoverMode Identifier: -	=	MAXVERT
Termode Identifier: -	=	Esc0XPMAXVERT
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	150
Continuous Default Value:-	=	150
53E Default Value:-	=	150
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPMAXVERT
Received String: -	=	Esc0XPMAXVERT 300

Send Command: - = Esc0XPMAXVERT 300

PARKHORIZ = Parking Speed of Horizontal Motor

Description:- All Printers

Allows the user to change the parking speed of horizontal motor.

System Variable Name: - = Esc0XPPARKHORIZ
RecoverMode Identifier: - = PARKHORIZ
Termode Identifier: - = Esc0XPPARKHORIZ
Type of Units: - = mm/sec
Intermittent Default Value: - = 60
Continuous Default Value:- = 60
53E Default Value:- = 60
Minimum Value: - = 0
Maximum Value: - = 200
Request Command: - = Esc0ZXPPARKHORIZ
Received String: - = Esc0XPPARKHORIZ 300
Send Command: - = Esc0XPPARKHORIZ 300

PARKRIBB = Parking Speed of Ribbon Motor

Description:- All Printers

Allows the user to change the parking speed of ribbon motor.

System Variable Name: - = Esc0XPPARKRIBB
RecoverMode Identifier: - = PARKRIBB
Termode Identifier: - = Esc0XPPARKRIBB
Type of Units: - = mm/sec
Intermittent Default Value: - = 50
Continuous Default Value:- = 50
53E Default Value:- = Not Used
Minimum Value: - = 0
Maximum Value: - = 200
Request Command: - = Esc0ZXPPARKRIBB
Received String: - = Esc0XPPARKRIBB 50
Send Command: - = Esc0XPPARKRIBB 50

PARKVERT = Parking Speed of Vertical Motor

Description:- All Printers

Allows the user to change the parking speed of vertical motor.

System Variable Name: - = Esc0XPPARKVERT
RecoverMode Identifier: - = PARKVERT
Termode Identifier: - = Esc0XPPARKVERT
Type of Units: - = mm/sec
Intermittent Default Value: - = 50
Continuous Default Value:- = 50
53E Default Value:- = 50
Minimum Value: - = 0
Maximum Value: - = 200
Request Command: - = Esc0ZXPPARKVERT
Received String: - = Esc0XPPARKVERT 50
Send Command: - = Esc0XPPARKVERT 50

RACHORIZ = Reverse Acceleration of Linear Motor**Description:- Intermittent Printers Only**

Allows the user to change the reverse acceleration of the horizontal motor.

System Variable Name: -	=	Esc0XPRACHORIZ
RecoverMode Identifier: -	=	RACHORIZ
Termode Identifier: -	=	Esc0XPRACHORIZ
Type of Units: -	=	mm/sec²
Intermittent Default Value: -	=	10,000
Continuous Default Value:-	=	n/a
53E Default Value:-	=	10,000
Minimum Value: -	=	0
Maximum Value: -	=	60,000
Request Command: -	=	Esc0ZXPRACHORIZ
Received String: -	=	Esc0XPRACHORIZ 10000
Send Command: -	=	Esc0XPRACHORIZ 10000

RESOL = Resolution of the Printer**Description:- All Printers.**

Not allowed to change, received value only.

System Variable Name: -	=	Esc0XPRESOL
RecoverMode Identifier: -	=	RESOL
Termode Identifier: -	=	Esc0XPRESOL
Type of Units: -	=	Dots per Inch
Intermittent Default Value: -	=	300
Continuous Default Value:-	=	300
53E Default Value:-	=	300
Minimum Value: -	=	300
Maximum Value: -	=	300
Request Command: -	=	n/a
Received String: -	=	n/a
Send Command: -	=	n/a

REVDEL = Reverse Direction Delay of Stepper Motors**Description:- All Printers.**

Allows the user to change the reverse delay of all motors that change direction.

System Variable Name: -	=	Esc0XPREVDEL
RecoverMode Identifier: -	=	REVDEL
Termode Identifier: -	=	Esc0XPREVDEL
Type of Units: -	=	milliseconds
Intermittent Default Value: -	=	2
Continuous Default Value:-	=	10
53E Default Value:-	=	10
Minimum Value: -	=	2
Maximum Value: -	=	40
Request Command: -	=	Esc0ZXPREVDEL
Received String: -	=	Esc0XPREVDEL 2
Send Command: -	=	Esc0XPREVDEL 2

REVMAX = Maximum Ribbon Reverse Speed**Description:- Continuous Printers Only.**

Allows the user to change the maximum ribbon reverse speed.

System Variable Name: -	=	Esc0XPREVMAX
RecoverMode Identifier: -	=	REVMAX
Termode Identifier: -	=	Esc0XPREVMAX
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	n/a
Continuous Default Value:-	=	600
53E Default Value:-	=	n/a
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPREVMAX
Received String: -	=	Esc0XPREVMAX 600
Send Command: -	=	Esc0XPREVMAX 600

RSTHORIZ = Reverse Start Speed Of Return Stroke**Description:- Intermittent Printers Only.**

Allows the user to change the reverse start speed of the horizontal motor.

System Variable Name: -	=	Esc0XPRSTHORIZ
RecoverMode Identifier: -	=	RSTHORIZ
Termode Identifier: -	=	Esc0XPRSTHORIZ
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	60
Continuous Default Value:-	=	n/a
53E Default Value:-	=	60
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPRSTHORIZ
Received String: -	=	Esc0XPRSTHORIZ 60
Send Command: -	=	Esc0XPRSTHORIZ 60

RUNNOCAS = Run Printer Without Cassette Fitted**Description:- All Printers.**

Allows the user to run the printer without a cassette fitted.

System Variable Name: -	=	Esc0XPRUNNOCAS
RecoverMode Identifier: -	=	RUNNOCAS
Termode Identifier: -	=	Esc0XPRUNNOCAS
Type of Units: -	=	Integer
Intermittent Default Value: -	=	1
Continuous Default Value:-	=	1
53E Default Value:-	=	n/a (no cassette designed in)
Minimum Value: -	=	0
Maximum Value: -	=	1
Request Command: -	=	Esc0ZXPRUNNOCAS
Received String: -	=	Esc0XPRUNNOCAS 60
Send Command: -	=	Esc0XPRUNNOCAS 60

SPRIBBON = Ribbon Stop Speed**Description:- All Printers.**

Allows the user to change the ribbon stop speed.

System Variable Name: -	=	Esc0XPSPRIBBON
RecoverMode Identifier: -	=	SPRIBBON
Termode Identifier: -	=	Esc0XPSPRIBBON
Type of Units: -	=	mm/sec
Intermittent Default Value: -	=	50
Continuous Default Value:-	=	100
53E Default Value:-	=	n/a (Mechanical)
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXSPRIBBON
Received String: -	=	Esc0XPSPRIBBON 50
Send Command: -	=	Esc0XPSPRIBBON 50

SPRINGPL = Initial Pre-Load of Printer Springs**Description:- All Printers.**Allows the user to set the pre-load rate of the springs. (Do not change)
This is preset value is when the pressure switch is activated.

System Variable Name: -	=	Esc0XPSPRINGPL
RecoverMode Identifier: -	=	SPRINGPL
Termode Identifier: -	=	Esc0XPSPRINGPL
Type of Units: -	=	Newton
Intermittent Default Value: -	=	18.42
Continuous Default Value:-	=	18.42
53E Default Value:-	=	18.42
Minimum Value: -	=	0
Maximum Value: -	=	100
Request Command: -	=	Esc0ZXSPRINGPL
Received String: -	=	Esc0XPSPRINGPL 18.42
Send Command: -	=	Esc0XPSPRINGPL 18.42

SPRINGR = Spring Rate in Newtons per Millimetres**Description:- All Printers.**

Allows the user to set the rate of the spring. (Do not change)

System Variable Name: -	=	Esc0XPSPRINGR
RecoverMode Identifier: -	=	SPRINGR
Termode Identifier: -	=	Esc0XPSPRINGR
Type of Units: -	=	Newtons/millimetre
Intermittent Default Value: -	=	5.34
Continuous Default Value:-	=	5.34
53E Default Value:-	=	5.34
Minimum Value: -	=	0
Maximum Value: -	=	100
Request Command: -	=	Esc0ZXSPRINGR

Received String: - = **Esc0XPSPRINGR 18.423**
Send Command: - = **Esc0XPSPRINGR 18.423**

STARTDEL = Motor Start Delay, Allowing for Power Supply Etc

Description:- All Printers.

Allows the user to change the motor start delay, when using different power modes.

System Variable Name: - = **Esc0XPSTARTDEL**
RecoverMode Identifier: - = **STARTDEL**
Termode Identifier: - = **Esc0XPSTARTDEL**
Type of Units: - = **Milliseconds**
Intermittent Default Value: - = **5**
Continuous Default Value:- = **2**
53E Default Value:- = **2**
Minimum Value: - = **0**
Maximum Value: - = **20**
Request Command: - = **Esc0ZXPSTARTDEL**
Received String: - = **Esc0XPSTARTDEL 2**
Send Command: - = **Esc0XPSTARTDEL 2**

STEPHORIZ = Step Size of Horizontal Motor

Description:- All Printers.

Allows the user to change the step size of the horizontal motor.

System Variable Name: - = **Esc0XPSTEPHORIZ**
RecoverMode Identifier: - = **STEPHORIZ**
Termode Identifier: - = **Esc0XPSTEPHORIZ**
Type of Units: - = **Millimetres**
Intermittent Default Value: - = **0.08333**
Continuous Default Value:- = **0.08333**
53E Default Value:- = **0.08333**
Minimum Value: - = **0**
Maximum Value: - = **1**
Request Command: - = **Esc0ZXPSTEPHORIZ**
Received String: - = **Esc0XPSTEPHORIZ 0.08333**
Send Command: - = **Esc0XPSTEPHORIZ 0.08333**

STEPRIBB = Step Size of Ribbon Motor

Description:- All Printers.

Allows the user to change the step size of the ribbon motor.

System Variable Name: - = **Esc0XPSTEPRIBB**
RecoverMode Identifier: - = **STEPRIBB**
Termode Identifier: - = **Esc0XPSTEPRIBB**
Type of Units: - = **Millimetres**
Intermittent Default Value: - = **0.08333**
Continuous Default Value:- = **0.08333**
53E Default Value:- = **0.08333**
Minimum Value: - = **0**
Maximum Value: - = **1**
Request Command: - = **Esc0ZXPSTEPRIBB**
Received String: - = **Esc0XPSTEPRIBB 0.08333**
Send Command: - = **Esc0XPSTEPRIBB 0.08333**

STEPVERT = Step Size of Vertical Motor**Description:- All Printers.**

Allows the user to change the step size of the vertical motor.

System Variable Name: -	=	Esc0XPSTEPVERT
RecoverMode Identifier: -	=	STEPVERT
Termode Identifier: -	=	Esc0XPSTEPVERT
Type of Units: -	=	Millimetres
Intermittent Default Value: -	=	0.08333
Continuous Default Value:-	=	0.08333
53E Default Value:-	=	0.08333
Minimum Value: -	=	0
Maximum Value: -	=	1
Request Command: -	=	Esc0ZXPSTEPVERT
Received String: -	=	Esc0XPSTEPVERT 0.08333
Send Command: -	=	Esc0XPSTEPVERT 0.08333

STRIBBON = Ribbon Start Speed**Description:- All Printers.**

Allows the user to set the ribbon start speed in millimetres/second

System Variable Name: -	=	Esc0XPSTRIBBON
RecoverMode Identifier: -	=	STRIBBON
Termode Identifier: -	=	Esc0XPSTRIBBON
Type of Units: -	=	Millimetres/Second
Intermittent Default Value: -	=	100
Continuous Default Value:-	=	100
53E Default Value:-	=	Mechanical Only
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPSTRIBBON
Received String: -	=	Esc0XPSTRIBBON 100
Send Command: -	=	Esc0XPSTRIBBON 100

STVERT = Start Speed of Vertical Motor**Description:- All Printers.**

Allows the user to change the start speed of the vertical motor.

System Variable Name: -	=	Esc0XPSTVERT
RecoverMode Identifier: -	=	STVERT
Termode Identifier: -	=	Esc0XPSTVERT
Type of Units: -	=	Millimetres/Second
Intermittent Default Value: -	=	50
Continuous Default Value:-	=	60
53E Default Value:-	=	50
Minimum Value: -	=	0
Maximum Value: -	=	1000
Request Command: -	=	Esc0ZXPSTVERT
Received String: -	=	Esc0XPSTVERT 0.08333
Send Command: -	=	Esc0XPSTVERT 0.08333