## **Structure of Operation Panel**



1. Touch Screen

LCD screen of high brightness is used as the touch screen of man-machine interface.

2. Operation Button

It is used to start or stop embroidery.

- 3. USB Main Interface
  - 2 USB disks can be connected for data input and output.

### **Main Interface Instructions**



No.	Icon	Name	No.	Icon	Name
		Basic Pattern Information		<b>N</b>	Memory Pattern Preview
4	С	Clear X/Y Displacement		C D	Letter Pattern Operation
	×	Manual Thread Trimming			Delete Pattern
		Main Shaft Jog			Pattern Output
		Frame Selection and Position	11	â	Return to Main Interface
		Auto Color-changing and Auto Start	11		U Disk Management
5	<b>₩</b>	Manual Color-changing and Manual Start			Other Functions
	Ţ	Back			Single/Multiple Selection
	+, -	Main Shaft Speed Up/Down			Next
	<b>0+</b> +/-	Empty Feed	10		Common Parameter Setting
	Z Z	Embroidery Ready Status, which can be confirmed	12	RQ	Pattern Preview
6		Embroidery Confirmation Status, which can be released		4 4 🔯	Current Operation
		Other Function Operation		1	Color Number List
		Manual Color-changing		1	Needle Bar Number and Color
	01	Current Needle Position			Move Up
		Current Color-changing Time	13		Insert Needle Bar No.
7	1 2 3	Color-changing Sequence			Delete Needle Bar No.
	<del>()</del>	Scale up pattern, and holding pressing for 2s to change into Q (scale down pattern)			Move Down
8		Manual Frame-moving		1 2 3 4 4 5 6 7 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Needle Bar Number Color Selection Area
9		Memory Pattern List			Repeat
10		Page Up/Page Down	14		Appliqué
					Needle Bar Color

# **Frame Selection**

User can press " key to enter the interface for frame selection and position.



No.	Icon	Name	
1		Pattern Range Display	
	frame 1	Frame Type Selection	
	X	Position Pattern to the Center of the Frame	
		Frame Parameter Setting	
		Move Frame along Pattern Outside	
2		Move Frame along Pattern Outline	
	- <b>¢</b> -	Memory of Pattern Origin	
	-+-D	Recovery of Pattern Origin	
		Manual Pattern Movement	
		Exit	

### Automatic Position Limitation Function Instructions for Apparel Embroidery

A. Working Principle

The automatic position limitation function of single-head embroidery machine controller is to determine the embroidery range of the frame by setting the distance from the center of the frame to the origin (that is X-/Y position limitation optical coupler) and the actual frame size (unit: mm). If embroidery is to be done beyond such range, the controller will activate automatic protection to prevent damage to the mechanical parts of the embroidery machine.

- B. Setting Method
  - 1. Set Frame Origin

Press	key, the	press key, to enter the	following interface.
		<ol> <li>Main Shaft</li> <li>Cut Line</li> <li>Break Detection</li> </ol>	
		Head Ele.magnet_Motor     S Driver Parameter Tuning	
		Sensor State Detection     Peripheral Board Mar	
		Boot Loader Update	
		Auto Find Origin Point     Other	
		1/2 🕨 💽	

Select "(9) Automatic Origin Search", to enter the interface to search origin automatically; the frame will search and determine the origin automatically; press "





2. Clear XY Displacement

In the main interface, press " **G** " key to clear the XY displacement displayed here.



3. Manual Frame-moving

In the main interface, click the frame-moving key to move the frame to overlap its center

with the needle hole.



#### 4. Set Frame Center and Size

In the main interface, check the coordinates of XY, which is the position of frame center.



Press " key, to enter the interface for frame selection and position setting; then press " key, to enter the interface for setting related parameters, where user can input

the coordinates of XY in the main interface.

<b>1</b>	♥★ 第1		<b>DAHAO</b> 10:25 2016-04-12
	> 🎲/		
Frame 1 F	rame 2 Frame	3 Frame 4 F	rame 5 Frame 6
EMB Frame Type		Frame length	430
Center for compensation	<b>X</b> 90	Frame Width	260
param bind	Y -42 default		
JI			111

There are four parameters: "X direction center" means the distance at X direction between the frame center and X- direction position limitation optical coupler; "Y direction center" means the distance at Y direction between the frame center and Y+ direction position limitation optical coupler. "X direction frame size" means the embroidery range of the frame at X direction; "Y direction frame size" means the embroidery range of the frame at Y direction.



"X direction frame size" and "Y direction frame size" should be set according to the actual size of different frames. Note: this parameter need be set according to the actual embroidery range of the frame, for the apparel frame is usually not square.



C. Cancel Position Limitation

Set "Frame Selection" as "No Frame", the position limitation function will be canceled and the software protection for the frame of flat embroidery will also become invalid.

frame typ	be: none fram	ie
Frame 1	Frame 2	Frame 3
Frame 4	Frame 5	Frame 6

D. Common Frame Size (Unit: mm)

Frame 1: Size: 550×375 Embroidery Range: 430×260



Frame 3: Size: 200 Embroidery Range: 150



Frame 5: Size: 120 Embroidery Range: 90

Frame 2: Size: 290×290 Embroidery Range: 230×230



Frame 4: Size: 150 Embroidery Range: 100



Frame 6: Size: 90 Embroidery Range: 40







### Part I. Embroidery



If user, after releasing embroidery confirmation, wants to embroidery the pattern again, user need operate from step B "Select Pattern for Embroidery" again.

A15 Controller Operation Quick Guide

### A15 Controller Operation Quick Guide



## Part II. Manual Operation



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