

1、操作面板使用说明 Operation Panel Instructions

1.1 针距修改：点按P键，针距数字闪烁，按+或-修改针距，数字越大，针脚越密；

1.1 Stitch modify: press "P", stitch number twinkling, press + or - to change stitch distance. the bigger number is, the shorter stitch distance is.

1.2 功能选择：点按P键3秒后松开，屏幕会显示P01等字样，按+或-选择功能，再次按P键进入次功能设置模式。

1.2 Function choice: press "P" for 3 seconds then release, And the words "P01" will appear on the screen, press + or - to choose function. Press "P" again to enter the secondary function setup mode.

2、参数设置说明 System parameters setting list

参数编号 NO.	参数范围 Range	出厂值 Default	参数描述 Description
P01	1-200	15	针距：数字越大，针脚越密。 The bigger the number, the shorter the stitch distance is.
P02	F-1/F-2	F-1	普通和同步模式切换： F-1：普通模式 common mode Common and synchronous F-2：同步模式 (机针同步) mode switching synchronous mode (machine needle synchronization)
P05	/	FBL	测编码器分辨率，只适用于同步模式。 Measuring encoder resolution, for synchronous mode only.
P06	yd-1/ yd-2	yd-1	设置同步模式停针原点，只适用于同步模式。 Set synchronization mode stop needle origin, apply to synchronous mode only.
P07	-99-99	0	同步停针位置偏移量，正数为延缓停针。 Synchronous stop position offset, positive number is delayed stop needle.
P08	30-80	55	调整同步轨迹百分比，小范围内可以调整按牙齿同步还是落针同步，只适用于同步模式。 Adjust the percent age of synchronization tracks, a small range can be adjusted by tooth synchronization or drop needle synchronization, only for synchronization mode.
P12	OFF/ 0.2-5	OFF	压脚延时放下，默认OFF关闭，延时范围0.2s-5.0s。 Foot delay down, default "OFF", delay range 0.2s-5.0s.
P13	OFF/ON	OFF	倒缝时抬压脚，默认OFF不抬，ON为抬起。 Lift the foot when back stitch, the default "OFF" is not to lift, "ON" is lift.
P14	OFF/ 0.2-5	OFF	两次抬压脚之间的间隔，默认OFF关闭。 The interval between the two lift feet, the default "OFF" is off.
P15	OFF/ON	OFF	电机转动方向，默认 OFF 正转，ON 为反转。 Motor rotation direction, default "OFF" positive rotation, "ON" is for reversal.
P17	0.0-0.99	0.0	在P01的针距中加入99格微调。 Add 99 tweaks to the stitch distance of "P01".
P18	OFF/ 0.0-9.0	OFF	倒缝时针距倍率，OFF为关闭，可调范围0.1-5.0，1.0时倒缝针距数值和正缝一致，2.0时倒缝针距数值为正缝时的2倍。 When OFF is off, it can be adjusted from 0.1 to 5.0. At 1.0, the value of the inverted stitch distance is consistent with that of the normal stitch; at 2.0, the value of the inverted stitch distance is twice that of the normal stitch.
P20	OFF/ON	OFF	按+键调整至 0n，按设置键即可初始化参数。 The key "+" to adjust to 0n, press the set button to initialize the parameters.
P21	OFF/ON	OFF	OFF上抬压脚时，步进电机释放电流；ON，不释放电流。 OFF, When the foot is lifted up, the stepping motor releases the current; ON, Do not release current.
P22	OFF/ON	OFF	OFF、普通模式输出；ON·跟随P02模式·如果P02是机针同步模式，则同步脉冲也是机针同步。 OFF, normal output mode, ON, FOLLOW P02 mode, if P02 is synchronous mode, so, synchronous pulse is synchronous mode
P23	OFF/ON	OFF	默认OFF不启用，改成ON后，在显示屏默认界面下，按减号键可以抬放压脚。抬放压脚时，针距前面会出现 _ 字样，用来观察抬压脚上下限位霍尔传感器是否失灵。 he default OFF is not enabled. After changing to ON, press the "-" to up and down the foot under the default interface of the display screen. When the foot is up and down, the _ appears in front of the needle distance to see if the Hall sensor at the upper and lower limit of the lifting foot fails.
P24	OFF/0.1-2.0	OFF	默认为OFF，单位为秒，如改为0.5，即压脚提升后0.5秒内不检测落下。 The default value is OFF, and the unit is second. If the value is set to 0.5, the fall is not detected within 0.5 seconds after the presser foot is lifted.
P25	OFF/1-9	OFF	缝纫机停止时，按倒缝输送带倒转。默认OFF关闭，1-9为倒转速度可调。 When the sewing machine stops, press the conveyor belt to reverse. The default value is OFF. The reverse speed is adjustable from 1 to 9.
P26	OFF/1-3	OFF	独立自锁开关功能设定：默认OFF关闭；1为手动抬压脚，2为输送带倒转，3为输送带正转。 Independent self-locking switch function setting: OFF by default; 1 is the manual lifting press foot, 2 is the conveyor belt reverse, 3 is the conveyor belt positive rotation.
P27	1-2.0	OFF	电磁铁倒缝默认为0，只有极个别电机倒缝的机型需要改为1，例如富士H9500A。一般无需更改，特殊需要更改的机型会有安装说明文档。 The default value of electromagnet backseam is 0. Only a few motor backseam models need to be changed to 1, such as Toyama H9500A. Generally, you do not need to change the model. If you need to change the model, the installation instructions will be provided.
P29	OFF/ 1-2	OFF	可以切换编码器模式，重新开机后生效。此参数P20、P30初始化后不重置，需手工更改OFF - 正常模式 (开机H 26) 1 - 低频编码器模式 (开机 HL 26) 2 - 包缝模式 (霍尔信号) (开机 Hb 26) The encoder mode can be switched, and it takes effect after the machine is restarted. This parameter P20, P30 is not reset after initialization, need to manually change the off-normal mode (boot H 26) 1 - Low frequency encoder mode (power on HL 26) 2 - Overstitching machine mode (Hall Signal) (Power on Hb 26)
P30	OFF/ON	OFF	等同于P20 Equivalent to P20

MT电子拖 轮安装使用说明书

MT all-drive interlligent puller Installation and instruction manual



适用于Compatible with:

平缝机、同步机、埋夹机、包缝机、绷缝机、双针车

Sewing machine as lockstitch, Synchronous, Buried folder, Overlock, Interlock and double-needles

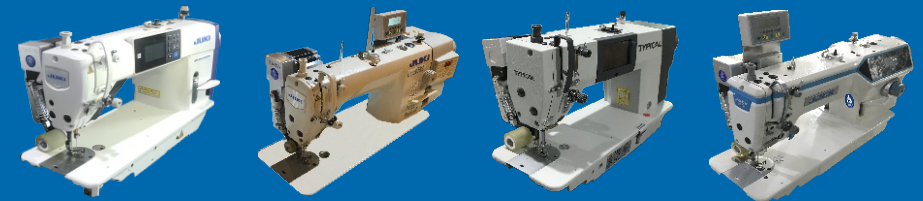
运用各种面料, 皮革缝制牵引

Using a variety of fabrics, leather sewaton traction

面料起皱
Fabric wrinkle

面料打滑
Fabric slip

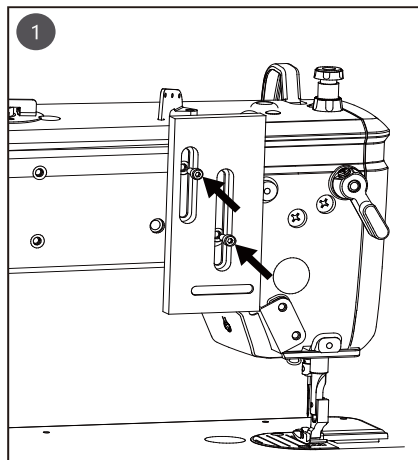
过砍不顺
Not fluent



电子拖轮装置/ Digital Puller Device

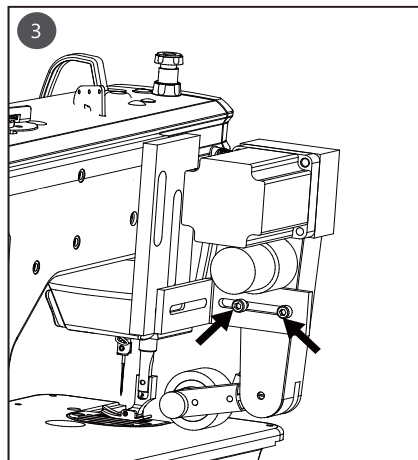
1 Installation order

安装顺序



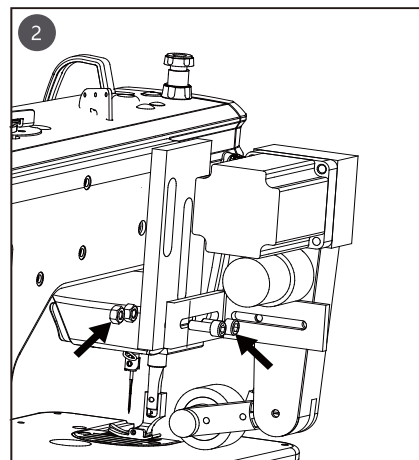
1、拆掉后窗板最右边2颗螺钉，用SM3/16x12螺钉将固定板安装在后窗板上，根据面料厚薄可上下调节固定板位置；

1、 remove 2 screws at rightmost part of the back board, then use SM3/16 screw to install the fixing board to the back board, it's needed to adjust the up and down position of fixing board according to fabric thickness;



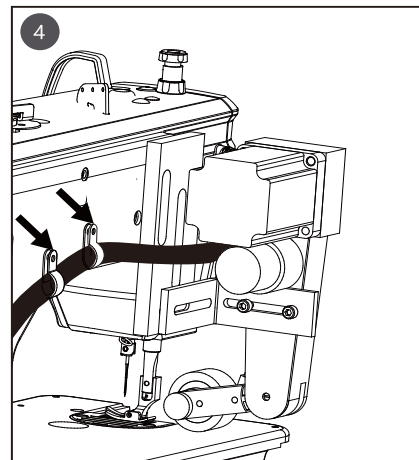
3、通过调节螺钉位置，移动轮子前后位置，在不影响上抬情况下尽量靠近机器压脚，以达到面料牵引最佳效果；

3、 by adjusting the screw position, you can move the puller front and back position. Pls move it near to the machine presser feet as much as possible, and also make sure it will not influence its lifting function. So that there will be best result of feeding the fabric;



2、将拖轮装置通过2颗M6x20螺钉和2个M6方形螺母安装在固定板上，根据面料工艺可调节拖轮左右位置；

2、 by using 2pcs M6x20 screws and 2 M6 square screws, fix the puller with the fixing board. You can adjust the puller left and right position based on the fabric and clothing process requirement;



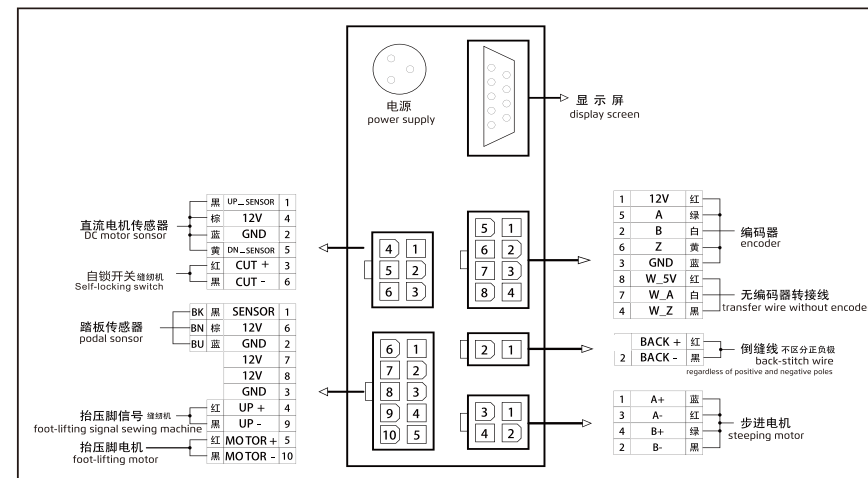
4、通过2个线卡将电线安装在后窗板上，然后将显示器安装在后窗板上。

4、 use 2 line cards to install the wire to the back board, then mount the panel onto the back board.

2

Wire-connect

接线原理



说明：通过自攻螺钉将电控箱安装在台板下底面，然后按照电控箱插孔依次插上相应插头。

Explain: Use self-tapping screw to install the control box under the table, and plug in correct position based on the control box socket.

!

Caution

使用注意事项

- 1、拖轮电控箱与拖轮主件安装时需轻拿轻放；
- 2、本机必须接交流110或220v电源；
- 3、拖轮主件安装固定好，需保证滚轮与台面的左右平整；
- 4、同步器与缝纫机连接尽可能同心，以减少晃动；

- 1、 The control box and the main parts should be carried lightly while installing the main parts;
- 2、 The main parts should be fixed well, and the left and right leveling of the roller and the countertop should be ensured;
- 3、 The main parts should be fixed well, and the left and right leveling of the roller and the countertop should be ensured;
- 4、 encoder and sewing machine connection as concentric as possible to reduce sloshing;

★ 压脚抬起的时候，针距前面会显示“J”，表示压脚已抬起，压脚放下则“J”消失。
When foot is up, the symbol "J" will display in front of the needle distance number. When foot is down, the symbol "J" disappears.

★ 如果出现抬放压脚位置不准确，或跑一圈才停，可能是某个上下限位霍尔传感器失灵了，可以通过微调P24纠正。

If the position of the up and down foot is inaccurate, or if roller need run a lap before stopping, it may be that some of the upper and lower limit Hall sensors fail, which can be corrected by fine-tuning P24.

★ P23设置成0N，然后通过减号键抬放压脚，可以测试上下霍尔是否失效，上霍尔有效，针距前会提示“—”，下霍尔有效则提示“—”。

P23 is set to ON, and pressed "+" and "-" to test whether the upper and lower Hall is invalid, the upper Hall is valid, "-" display before the needle distance, and the lower Hall is valid display —.

★ 显示屏白屏或乱码，可按一下□+键恢复，或者抬放一次压脚进行恢复。
If the screen is white or garbled, press □+ to recover, or lift the press foot once to recover.

★ H20开始改为抬压脚双霍尔传感器，上升限位和下降限位。
H20 began to change the pressure foot double Hall sensor, rise limit and fall limit.

★ 普通缝纫机针距最小设置为5，绷缝机才需要设置到5以下，数值太小容易引起电机堵转。
The minimum needle distance of the ordinary sewing machine is set to 5, and the sewing machine needs to be set below 5. Too small value is easy to cause motor blockage.