COLOREEL®

Installation Manual

503 201 Embroidery Machine Serial Interface Kit

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This kit contains the following parts:

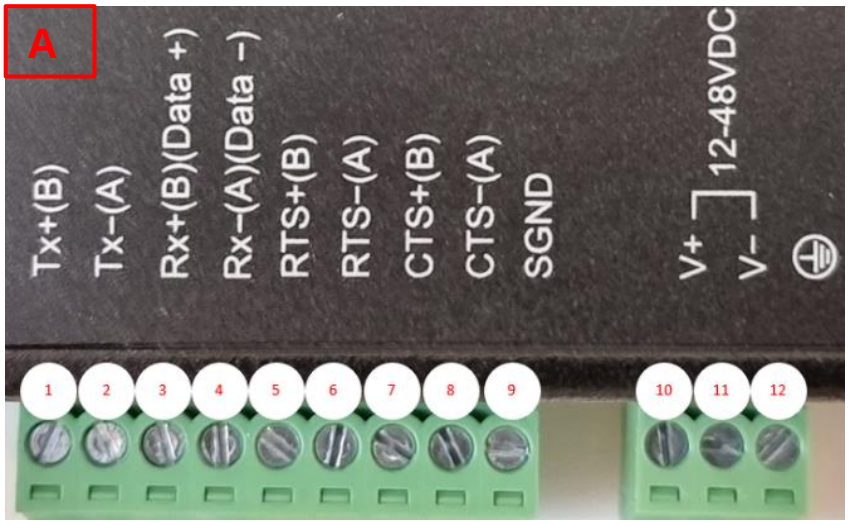
- 6139 - Serial Converter
- 6089 - RS485 Communication Cable
- 6140 - RS232 Communication Cable
- 6147 - Cable tie 20 pcs
- 6141 - Installation manual

6139 - Serial Converter

To install the Cables to the Converter

1. Ensure the Coloreel ITCU is not operated and no maintenance is running. Power off the ITCU and disconnect the power cord from the wall socket.
2. Connect the six (6) electrical connectors of the RS485 Communication Cable and connect them according to the picture and data below (A). Ensure the screws are tightened correctly.

RS485 Communication Cable



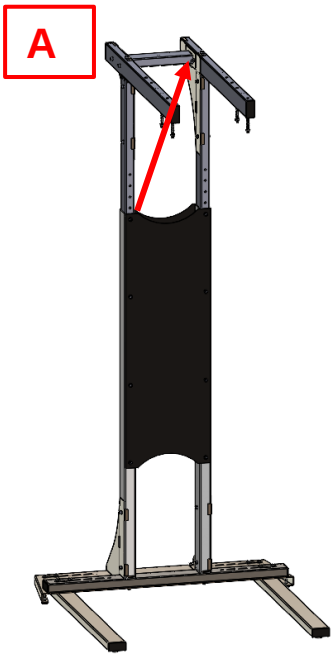
Position	Cable	Position	Cable
1	TX+	7	Not used
2	TX-	8	Not used
3	RX+	9	Not used
4	RX-	10	V+
5	Not used	11	V-
6	Not used	12	Not used

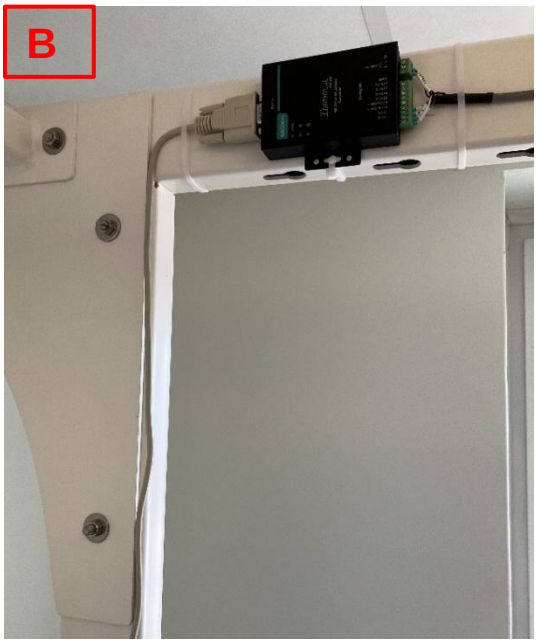
RS232 Communication Cable

3. Connect the RS232 Communication Cable according to the picture. Tighten the screws correctly.

Attach the Converter to the Stand

1. The Serial Converter shall be mounted on the inside of the upper right beam (A).
2. The Serial Converter shall be placed so the RS485 Communication Cable points to the front of the stand (B).

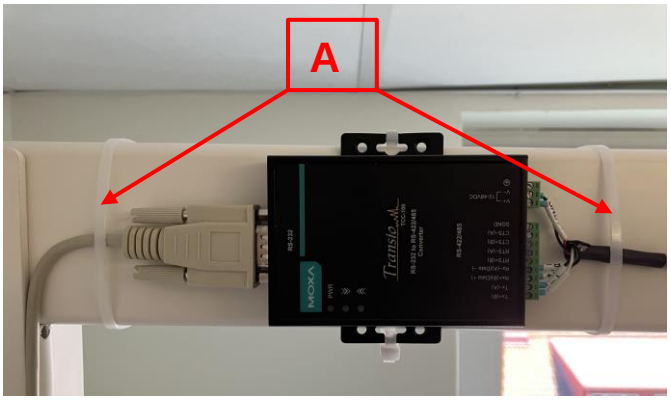




3. Attach the Serial Converter to the stand using one (1) of the included Cable Ties (C).
4. Cut off the end of the cable tie so it does not stand out.

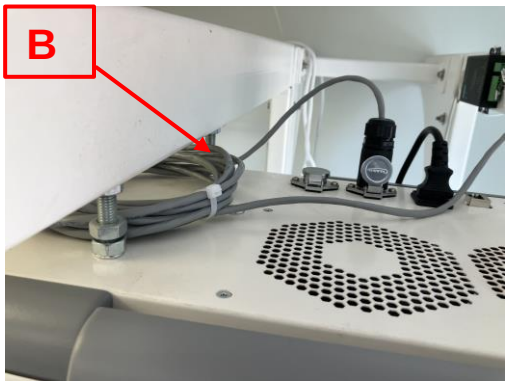
Attach the Cables to the Stand

5. To prevent accidental disconnection, the two cables shall be fixed to the stand according to the picture below, use one (1) cable tie for each cable. Make sure that there is no load at the cables (A). Cut off the end of the cable ties so they do not stand out.



6. Place the RS485 Communication Cable along the Upper Beam and fasten the cable at an appropriate distance to ensure it can't get caught by the operator or other equipment. (B).
7. The RS485 Communication Cable is designed to fit several different setups; therefore, the cable length can be longer than needed for your specific setup.

   If the cable is longer than necessary, ensure that the excess cable is wound at one location at the stand, the cable shall be fastened in a position where the cable doesn't cover any outlet of the unit or can be caught by an operator or other equipment. See the example below (B).

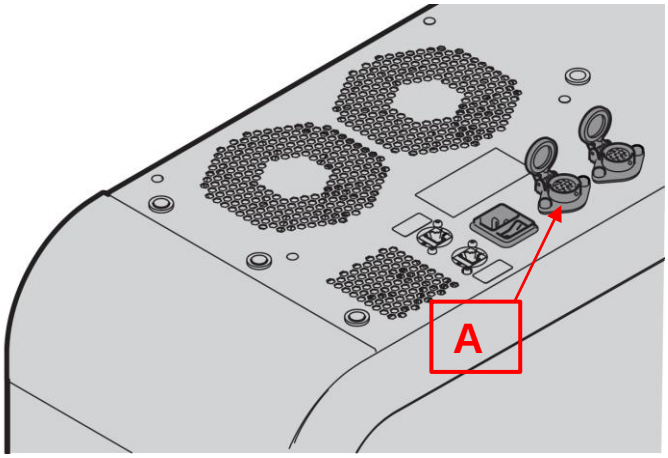


8. Place the RS485 Communication Cable along the Upper Beam and fasten the cable at an appropriate distance to ensure it can't get caught by the operator or other equipment. (B).
9. The RS485 Communication Cable is designed to fit several different setups; therefore, the cable length can be longer than needed for your specific setup.

   If the cable is longer than necessary, ensure that the excess cable is wound at one location at the stand, the cable shall be fastened in a position where the cable doesn't cover any outlet of the unit or can be caught by an operator or other equipment. See the example below (C).

Attach the RS485 Communication Cable to the ITCU

1. Attach the other end of the RS485 Communication Cable to the connector (A) on the top side of the ITCU.

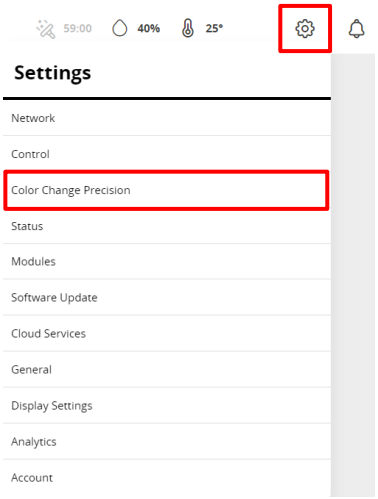


Serial Converter setting

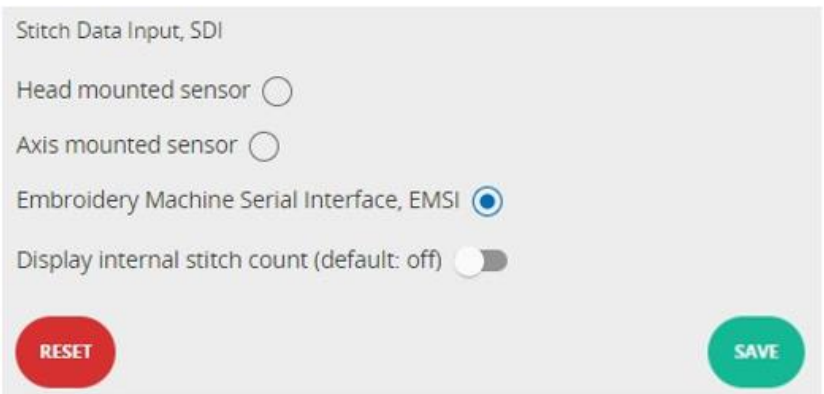
The DIP switches shall be set per the picture below (A). Switch number 1 = OFF, Switch number 2 and 3 = ON

ITCU setting

1. Connect the ITCU power cord to the wall socket and start the ITCU
2. In the ITCU Operator Panel, click on the ⚙ symbol.
3. Click on the “Color Change Position.”



4. The parameter Stitch Data Input shall be set to: Embroidery Machine Serial Interface, EMSI
5. Press “Save”



6141 – Rev. A

Unlock your potential
Coloreel is a Swedish textile innovation brand with groundbreaking technology that enables high-quality coloring of textile thread on demand, unlocking a world of potential.
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