

USER'S MANUAL

TAJIMA SPOOL KNITTER
TSK-1



Foreword

This user's manual describes about the correct using method and instructions for use of this product. Please use this machine after understanding the contents of the manual.

This manual may contain discrepancies in detailed specification as compared with the actual production. If you have any question about this manual, consult your TAJIMA distributor.

TISM Co.,Ltd.

SAFETY PRECAUTIONS

To prevent any harm or damage to the person who use this product or other person, we describe items that must be surely followed as below.



Indicates that there is a lot of danger of death or serious injuries [*1] if handled by mistake.



Indicates that there is a likelihood of death or serious injuries [*1] if handled by mistake.





Indicates a potentially hazardous situation which may result in minor or moderate injury [*2] or property damage if handled by mistake.

*1: A condition caused by electric shock, injury, fracture of a bone, etc., that leads to aftereffects, or an injury that necessitates hospitalization or visits to a hospital over a long period.

*2: An injury that does not necessitate hospitalization or visit to a hospital over a long period.

 : Prohibited items

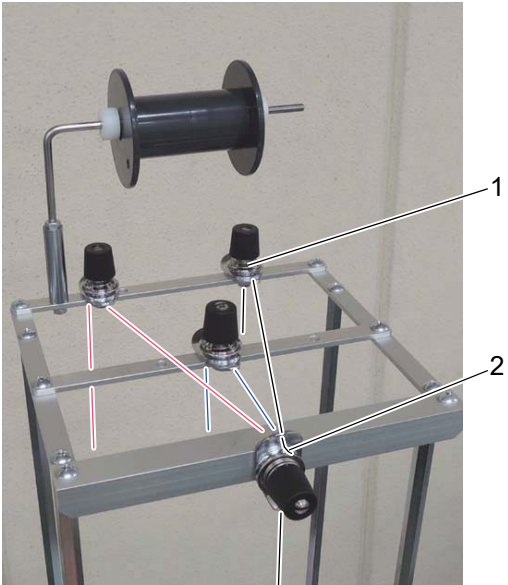
 : Items that may cause electric shock if not observed

 : Items that must be followed carefully to ensure safe operation

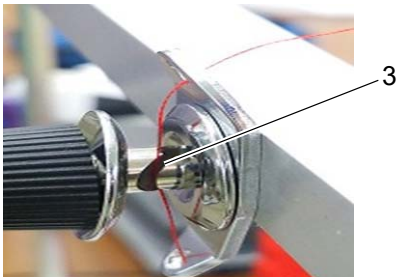
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1. Assembling Cord Knitting Machine

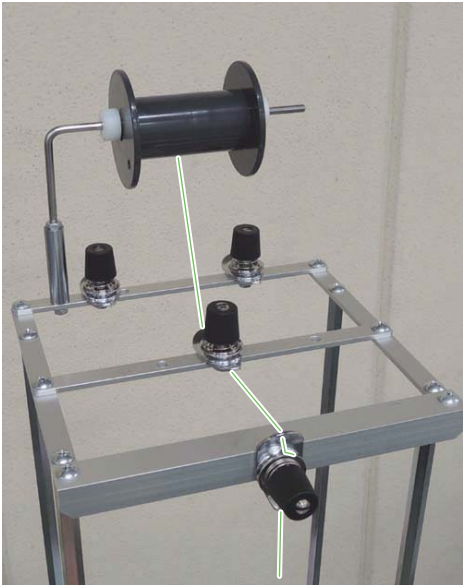
1-1. Procedure of threading

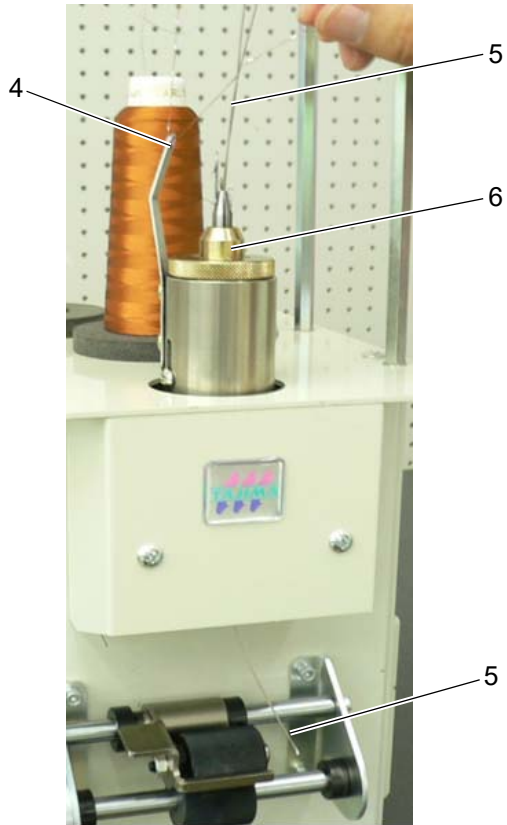


- 1. Pass the thread through the first tension 1 and the second tension 2.
When passing the thread through the first tension 1 and the second tension 2 pass the thread through the slit 3.

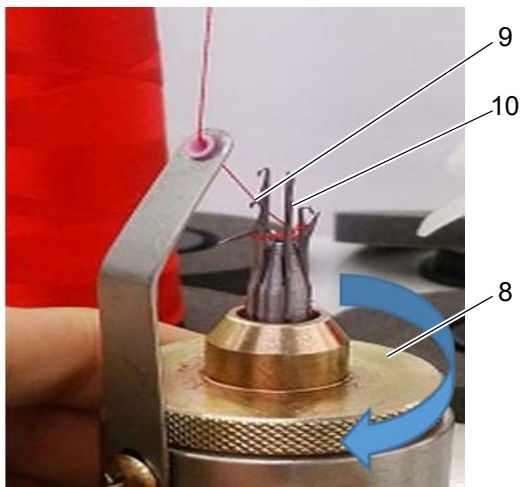
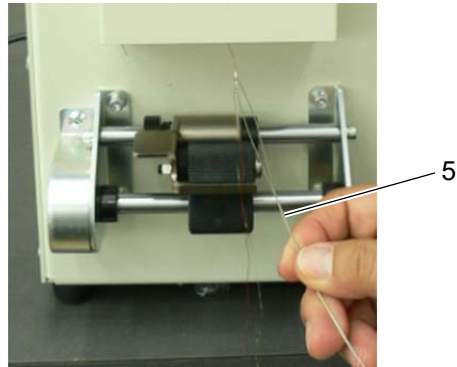


Lame thread

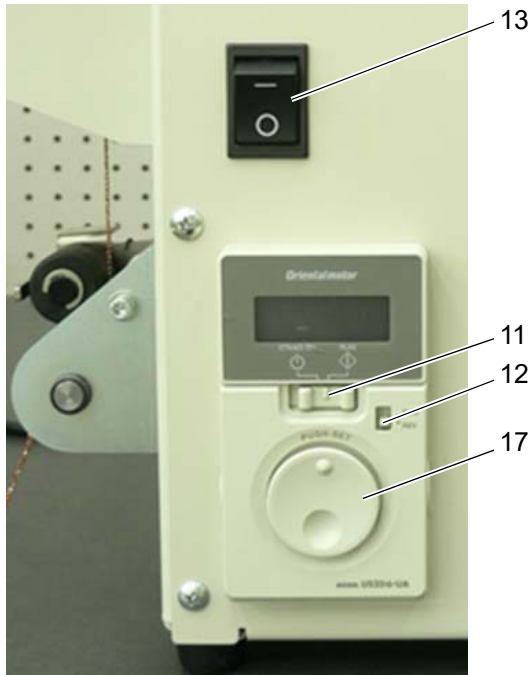




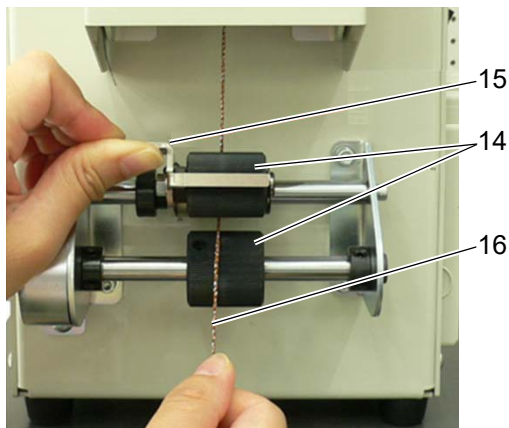
2. Then pass the thread through the guide 4.
3. Pass the thread through the center of the head by using the accessory threader 5.
4. Pull the threader 5 downward, and draw the thread.



5. While pulling lightly the thread drawn from the head bottom down, rotate the head 8 clockwise by hand and entangle the thread 9 with all the knitting needles 10. Make sure the thread is entangled with all the knitting needles 10 by turning the head 8 more than 10 times so that the thread 9 is entangled with all the knitting needles well.

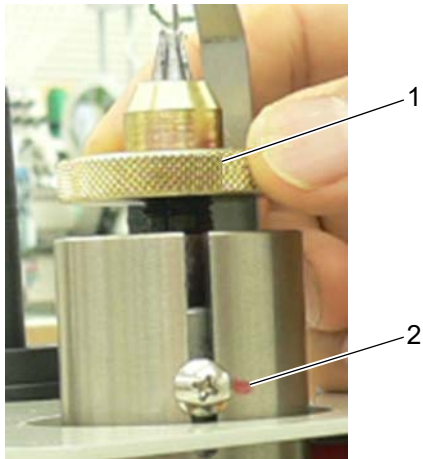


6. Please confirm that speed control switch 11 is set to right side, it is ON position. And switch 12 must be at lower position. After that, pulling the thread lightly downward. And finally turn on the power switch 13. The speed of feed roller (Speed controller's digital Level) is shipped from the factory at 25 rpm.

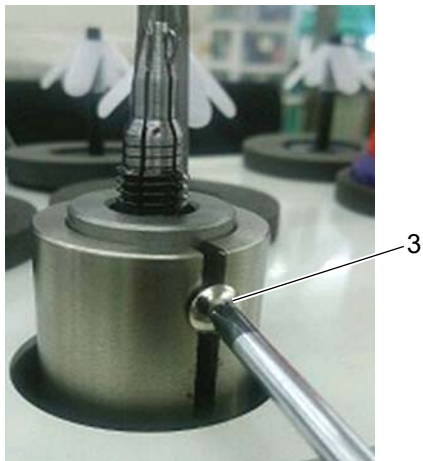


7. The main body head 8 (previous page) and the feed roller 14 will rotate and knit a cord. At this time, if loosening the pulling thread, the yarn at the knitting needle get entangled easily. In this reason, please ensure to keep pulling yarn at start timing.
8. After knitting to the certain extent that the cord reaches to the feed roller 14, lift the lever 15 and let the cord 16 pass through the roller 14. In accordance with the speed at which the cord is knitted, the speed of the feed roller 14 is adjusted by dial 17 for speed control. The standard of the speed control digital indication is 20 to 30 rpm. Do not change the position of the speed control switch 11, 12. It may cause problems such as reverse rotation of the roller.

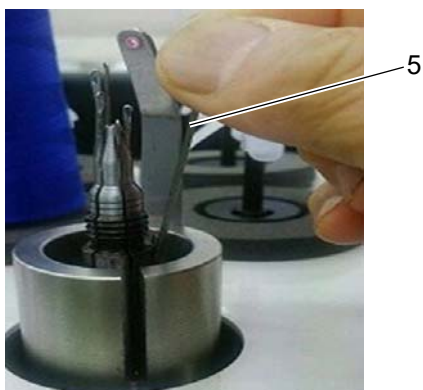
1-2. Replacement of knitting needle



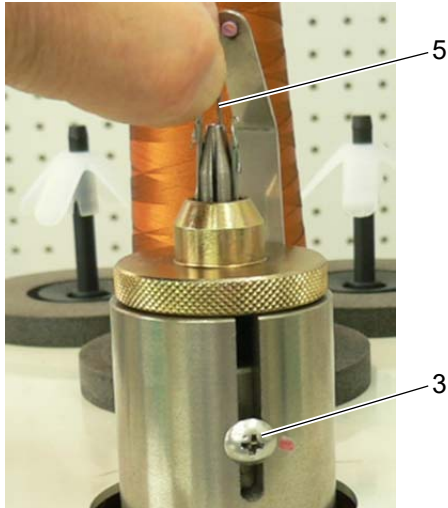
1. Loosen the knurling tool 1 of the head by hand.
Before detaching the upper cam in the head, mark the attaching screw position of the upper cam with a pen to check the attaching position 2.



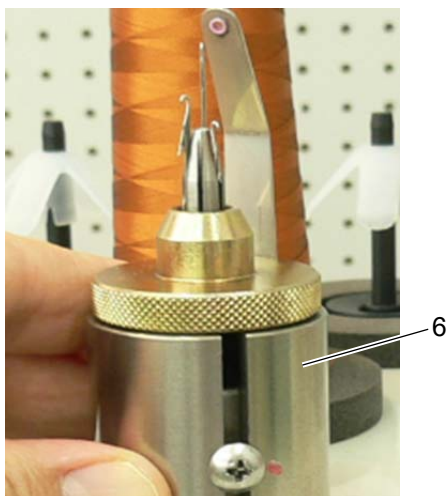
2. Loosen the screw 3 and lift up the upper cam 4 with the screw 3.



3. Pull out the knitting needle 5 to replace.



4. After the upper cam is returned to the previous position and it is fastened with the attaching screw 3, check whether there is a little play in the knitting needles 5 and the head 6 can be turned smoothly by hand. (It is not good that the play of needle is a lot.)

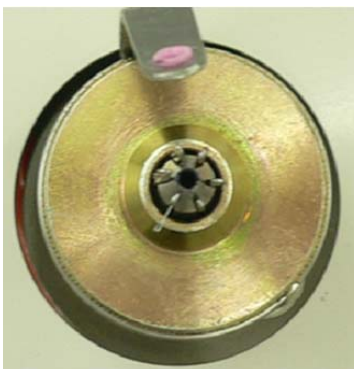


1-3. Specification



3 needles

State when the knurling tool is removed



6 needles

1-4. Electrical specifications

- Cord knitting motor: Induction motor 25 W (single phase 110/115 V, or 220/230 V)
- Cord knitting rotation speed: 1300 rpm (60 Hz)
- Cord feed motor: Induction motor 6W gear head (1/50) with speed controller (Single phase 110/115 V, or 220/230 V)
- Cord feeding shaft rotation speed: 2 to 30 rpm (60 Hz)

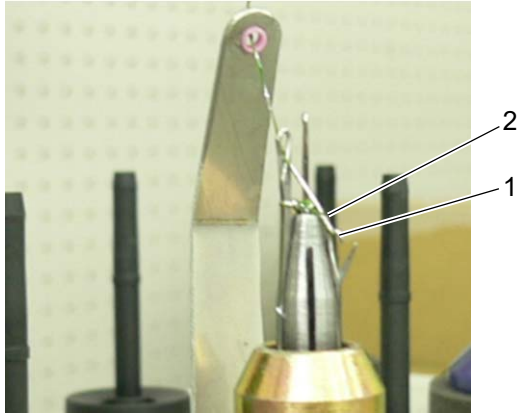
Allowable voltage range	±10% of the rated voltage
Frequency	50/60Hz
Apparent power	100~120V: 60VA 200~240V: 65VA
Effective power	100~120V: 50W 200~240V: 63W
Insulation resistance	10M ohms or more (500 megger insulating-resistance tester)
Short-circuit current rating	3A

1-5. Accessory part

- Threader 1 pce
- Knitting needle 9 pcs

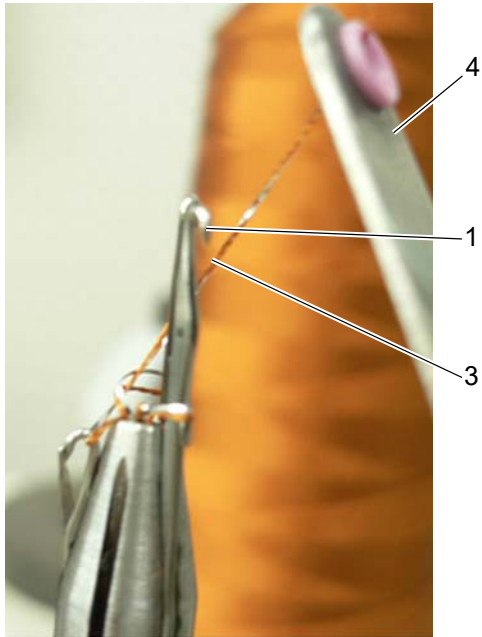
2. Points for adjustment of Cord Knitting Machine

2-1. Position of Knitting needle



With the knitting needle 1 being lowest, it should be about 1 to 2 mm lower than the top of the head 2 as the ideal.

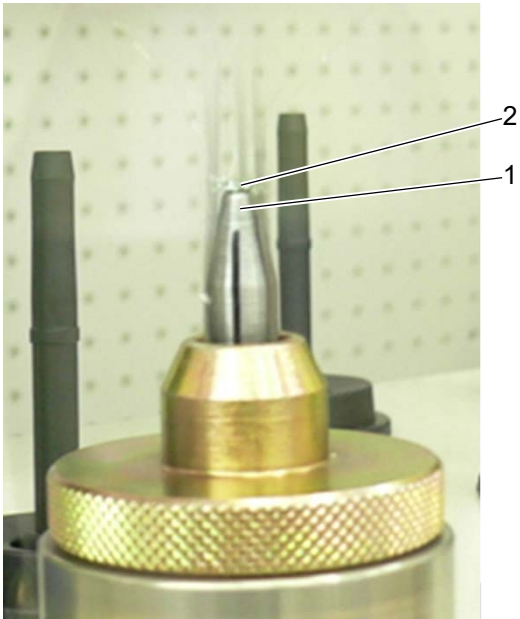
Top of the head



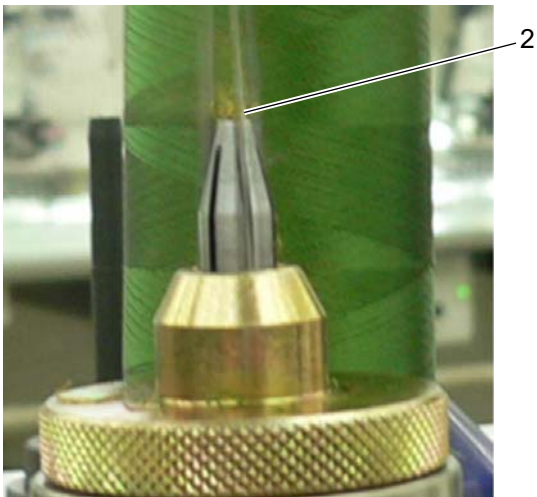
At the position where the knitting needle 1 is at the top, adjust the position of the guide 4 so that the thread 3 is entangled with the knitting needles well.

Because knitting condition varies with the type and combination of threads to be used, fine adjustment is necessary.

2-2. Rotational state of the head

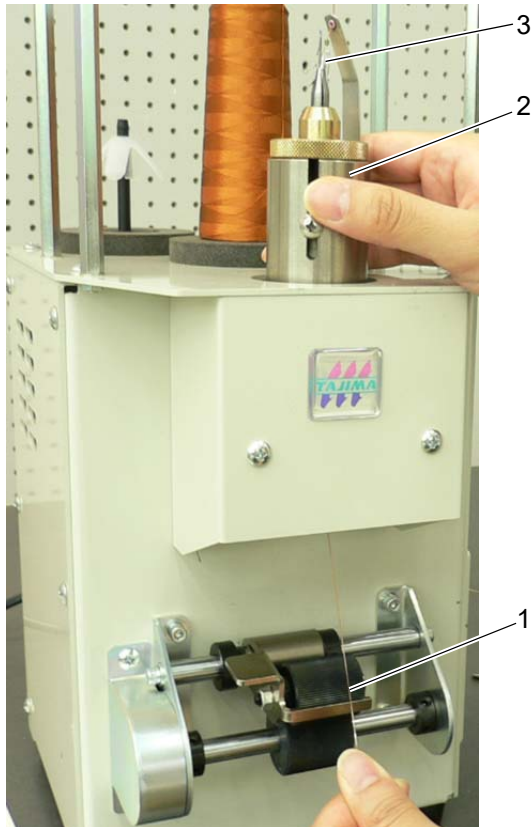


The photo shows the head 1 is rotating. The extent that the thread 2 is seen float on the top of the head is good condition.



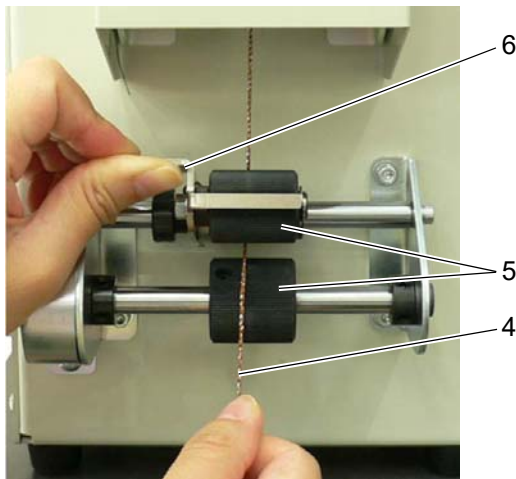
If the thread 2 looks rising like this, be careful because it is just before thread breakage occurs.

2-3. Points when entangling the thread with the knitting needles by hand

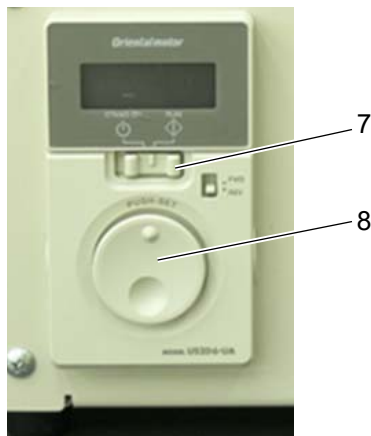


1. While pulling lightly the thread 1 down out from the bottom of the head 2, turn the head by hand to entangle the thread to all the knitting needles 3. Make sure the thread is entangled with all the knitting needles 3 by turning the head 2 more than 10 times so that the thread is entangled with all the knitting needles 3 well.

2. Next, while pulling lightly the thread down, turn ON the power switch and knit the cord to the extent that the knitted cord reaches the roller.



3. Turn ON the speed controller switch 7, and check whether the cord 4 can be made well. Then lift up the lever 6 by hand to put the cord into the rollers 5. To adjust the rotation speed of the roller 5, turn the rotation speed adjustment dial 8.



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