# Janome 1600P Instruction Manual



# **IMPORTANT SAFETY INSTRUCTIONS**

When using an electrical appliance, basic safety precautions should always be followed, including the following: Read all instructions before using this appliance.

# **DANGER** – To reduce the risk of electric shock:

- 1. An appliance should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.
- 2. Always unplug before replacing a sewing machine bulb. Replace bulb with same type rated 12 V, 5 Watts.

# **WARNING** – To reduce the risk of burns, fire, electric shock or injury to persons:

- 1. Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children.
- Use this appliance only for its intended use as described in this instruction book.
   Use only attachments recommended by the manufacturer as contained in this instruction book.
- 3. Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water.

Return this sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.

- 4. Never operate the appliance with any air opening blocked. Keep ventilation openings of this sewing machine and foot controller free from accumulation of lint, dust and loose cloth.
- 5. Never drop or insert any object into any opening.
- 6. Do not use outdoors.
- 7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- 8. To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
- 9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- 10. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- 11. Always use the proper needle plate. The wrong plate can cause the needle to break.
- 12. Do not use bent needles.
- 13. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- 14. Switch this sewing machine off ("O") when making any adjustment in the needle area, such as threading the needle, changing the needle, threading the bobbin, changing the presser foot, and the like.
- 15. Always unplug this sewing machine from the electrical outlet when removing covers, lubricating, or when making any other adjustments mentioned in this instruction book.

# SAVE THESE INSTRUCTIONS

Designs and specifications are subject to change without prior notice.

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To Attach Knee Lifter



The knee lifter is extremely helpful when sewing applique, patchwork and quilting since it allows you to handle the fabric while your knee controls the presser foot.

Match the ribs on the knee lifter with the notches in the knee lifter socket and insert the knee lifter. (1) Knee lifter

- 2 Ribs
- ③ Notches
- 5) Notches

Push the knee lifter with your knee to raise and lower the presser foot.

#### NOTE:

Do not touch the knee lifter while sewing, otherwise the fabric will not be fed smoothly.

## **GETTING READY TO SEW**

## Connecting Machine to Power Supply

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#### CAUTION

Always turn the power switch off and unplug the sewing machine from the electrical outlet when the machine is not in use.

- 1 Machine plug
- 2 Machine socket for power supply plug
- ③ Power supply plug
- ④ Outlet
- (5) Machine socket for foot control
- 6 Foot control plug
- 7 Foot control

Turn off the power switch. Insert the foot control plug (6) into the machine socket (5). Insert the machine plug (1) into the machine socket (2). Insert the power supply plug (3) into the wall outlet (4). Turn on the power switch (8).

#### **Controlling Sewing Speed**



#### Speed control slider

Sewing speed can be varied with the speed control slider according to your sewing needs. To increase sewing speed, slide it to the right. To decrease sewing speed, slide it to the left.

#### Foot control

Sewing speed is varied by the foot control. The harder you press down on the foot control, the faster the machine runs.

The machine runs at the maximum speed set by the speed control slider when the foot control is being fully depressed.

#### **Operating Instructions:**

The symbol "O" on a switch indicates the "off" position of a switch.

For appliances with a polarized plug (one blade wider than the other): To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If it does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way. \* Foot control model TJC-005 is used with sewing machine model 1600P.



Use the lever to lock the beginning and end of seams.



#### Presser Foot Lifter



Foot Pressure Dial



- 1) Presser foot lifter
- 2 Normal up position
- ③ Highest position

The presser foot lifter ① raises and lowers the presser foot. You can raise it higher ③ than the normal up position ② to help you place thick material under the foot.



The foot pressure control dial should be set at "3" for regular sewing. Reduce the pressure for appliqué, sewing on fine synthetics and elastic fabrics. Set the dial at "1" when sewing extra fine fabrics.

#### NOTE:

Do not reduce the foot pressure lower than "0".

#### Attaching and Detaching Presser Foot



#### ① Setscrew

To change the presser foot, raise the presser foot lifter.

Loosen the setscrew  $(\ensuremath{\mathbb{I}}),$  choose the proper foot and insert it from the bottom.

Tighten the setscrew 1 with the large screwdriver to secure the foot.

#### To Remove Bobbin Case and Bobbin





#### **Inserting a Bobbin**



#### Threading the Needle Thread

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#### Drawing up the Bobbin Thread



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#### Changing the Needle for Model 1600P



counterclockwise with the large screwdriver. Loosen the screw and remove the needle from the needle clamp.

1 Needle clamp screw

Insert a new needle into the needle clamp (2) with the flat side (3) to the right, pushing it up as far as it will go.
Tighten the clamp screw (1) firmly.
(2) Needle clamp
(3) Flat side

Use an HL x 5 needle



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To determine if the needle is defective, place the flat side of needle on something flat (a needle plate, piece of glass, etc.). The gap between the needle and the flat surface should be consistent.

Never use a blunt or blunt needle, as it may cause skipped stitches or thread breakage. Defective needles can ruin the fabric. Always purchase good quality needles. Change needles often.

#### **Thread and Needle Chart**

	Fabrics	Thread	Needle (HL x 5) size
Light weight	Crepe de chine, Voile, Lawn, Organdy, Georgette, Tricot	Fine silk Fine Cotton Fine Synthetic Covered Polyester	9 or 11
Medium weight	Linens, Cotton, Pique, Serge, Double Knits, Percale	50 silk 50 to 80 Cotton 50 to 60 Synthetic Cotton Covered Polyester	11 or 14
Heavy weight	Denim, Tweed, Gabardine, Coating, Drapery and Upholstery Fabric	50 silk 40 to 50 Cotton 40 to 50 Synthetic Cotton Covered Polyester	14, 16 or 18

#### Changing the Needle for Model 1600P-DB and 1600P-DBX -



Never use a blunt or blunt needle, as it may cause skipped stitches or thread breakage. Defective needles can ruin the fabric. Always purchase good quality needles. Change needles often.

#### **Thread and Needle Chart**

	Fabrics	Thread	Needle (DB x 1) size
Light weight	Crepe de chine, Voile, Lawn, Organdy, Georgette, Tricot	Fine silk Fine Cotton Fine Synthetic Covered Polyester	9 or 11
Medium weight	Linens, Cotton, Pique, Serge, Double Knits, Percale	50 silk 50 to 80 Cotton 50 to 60 Synthetic Cotton Covered Polyester	11 or 14
Heavy weight	Denim, Tweed, Gabardine, Coating, Drapery and Upholstery Fabric	50 silk 40 to 50 Cotton 40 to 50 Synthetic Cotton Covered Polyester	14, 16 or 18

#### **Balancing Needle Thread Tension**



The needle thread and bobbin thread should interlock in the center of two layers of the fabric in straight seams.

#### Adjusting Bobbin Thread Tension =





Test the bobbin thread tension by holding the end of the bobbin thread and suspending the bobbin case as illustrated. Then jerk the bobbin case once by flicking your wrist.

If the thread comes out of the bobbin case continuously, and the bobbin case keeps falling, the bobbin thread tension is too loose. Make a slight adjustment by turning the screw clockwise with the small screwdriver. ① To tighten

If the thread does not come out of the bobbin case at all, the bobbin thread tension is too tight. Make a slight adjustment by turning the screw counterclockwise with the small screwdriver. ② To loosen

#### **Adjusting Needle Thread Tension**



#### Needle thread tension is too tight:

If the bobbin thread (4) shows through on the right side of the fabric (1) and it feels bumpy, loosen the needle thread tension by turning the dial to the left.

- 1) Right side of the fabric
- 2 Wrong side of the fabric
- ③ Needle thread
- (4) Bobbin thread

#### Needle thread tension is too loose:

If the needle thread ③ loops on the wrong side of the fabric ②, tighten the needle thread tension by turning the dial to the right.

HOW TO SEW Test Stitching



## Securing a Seam

• By reverse stitching

The machine will sew in reverse as long as the reverse stitch lever is pressed. Secure the beginning and end of a seam by sewing in reverse for about  $1 \text{ cm} (3/8^{\circ})$ .

• By knotting the threads

Pull the bobbin thread to bring the needle thread to the wrong side of fabric. Tie the threads together. Trim the remaining threads.

#### Turning a Square Corner



Stop the machine a few stitches before the end of the seam.

Press the up/down needle button a few times until the needle falls on the end of the seam.

Raise the presser foot.

Pivot the fabric around the needle to change the sewing direction.

Lower the presser foot and start sewing in a new direction.

#### Using the Cloth Guide



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# CARE & MAINTENANCE

#### Cleaning the Hook and Feed Dog

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#### CAUTION:

Turn the power switch off and unplug the machine before cleaning.

- 1 Remove the needle and presser foot.
- 2 Remove the hook cover plate ① and open the hook cover ②.
- 3 Loosen the setscrew 3 and remove the needle plate 4.
- 4 Clean the hook (5) and feed dog (6) with a lint brush (7).
- 5 After cleaning the machine, attach the needle plate (4), needle and presser foot.
  - 1) Hook cover plate
  - <sup>(2)</sup> Hook cover
  - ③ Setscrew
  - (4) Needle plate
  - (5) Hook
  - 6 Feed dog
  - () Lint brush

#### Oiling the Machine





#### NOTE:

Unplug the machine before oiling.

Oil the points as shown (1), (2) and (3) with two or three drops of oil. Use only sewing machine oil MO-70 for this sewing machine.

Oil the machine once a day if you use the machine frequently.

Use a soft, dry cloth to remove excess oil.

Remove the bobbin case from the hook when you oil the hook race.

After oiling, stitch a piece of waste fabric to absorb excess oil.

#### Replacing the Light Bulb



#### CAUTION:

Turn the power off before replacing the light bulb. The bulb could be HOT, wait until it has cooled down before touching it.

- 1 Setscrew
- 2 Face cover
- ③ Lamp socket
- (4) Light bulb

#### To remove:

Remove the setscrew ①. Remove the face cover ②. Pull out the bulb ④ from the lamp socket ③.

#### To replace:

Insert a new bulb into the opening of the socket (3). Attach the face cover (2) with the setscrew and cap.

Replace the bulb with the same type, rated 12 V, 5 W.

#### Replacing the Light Bulb on the Underside of the Sewing Arm



Lay the machine on its back.

Detach the lamp window (1) from the machine with the screw driver as shown. Pull out the light bulb (3) from the socket.

Insert a new bulb into the socket ②. Attach the lamp window ① into the opening on the machine. ① Lamp window

- 2 Lamp socket
- ③ Light bulb

Replace the bulb with the same type, rated 12 V, 5 W.

### Troubleshooting

Condition	Cause	Reference	
The needle thread	1. The needle thread is not threaded properly.	See page 10	
breaks.	2. The needle thread tension is too tight.	See page 15	
	3. The needle is bent or blunt.	See pages 13, 14	
	4. The needle is incorrectly inserted.	See pages 13, 14	
	5. The needle thread and the bobbin thread are not set under the		
	presser foot when starting sewing.	See page 12	
	6. The thread is either too heavy or too fine for the needle.	See pages 11, 13, 14	
The bobbin thread			
breaks.	1. The bobbin thread is not threaded properly in the bobbin holder.	See page 9	
	2. Lint has collected in the hook race.	See page 19	
	3. The bobbin is damaged and doesn't turn smoothly.	Replace the bobbin.	
The needle breaks.	1. The needle is incorrectly inserted.	See pages 13, 14	
	2. The needle clamp screw is loose.	See pages 13, 14	
	3. The needle is too fine for the fabric being used.	See pages 13, 14	
Skipped stitches	1. The needle is incorrectly inserted, bent or blunt.	See pages 13, 14	
	2. The needle and/or fabrics are not suitable for the work being		
	sewn.	See pages 11, 13, 14	
	3. A Blue Tip needle is not used when sewing stretch, very fine		
	fabrics and synthetics.	See page 13	
	4. The needle thread is not threaded properly.	See page 10	
	5. A poor quality needle is being used.	Change the needle.	
Seam puckering	1. The needle thread tension is too tight.	See page 15	
	2. The needle thread is not threaded properly.	See page 10	
	3. The needle is too heavy for the fabric being sewn.	See pages 11, 13, 14	
	4. The stitch length is too long for the fabric.	Make the stitch shorter	
The cloth is not	1. The feed dog is packed with lint.	See page 19	
feeding smoothly.	2. The stitches are too fine.	Make the stitch longer	
Stitches form loops	1. The needle thread tension is too loose.	See page 15	
below the fabric.	2. The needle is either too heavy or too fine for the thread.	See pages 11, 13, 14	
The machine does not	1. The machine is not plugged in.	See page 4	
work.	2. Thread has been caught in the hook race.	See page 19	
The machine does not	1. Thread has been caught in the hook race.	See page 19	
run smoothly and is	2. Lint has built up in the hook race or bobbin holder.	See page 19	
	3. The machine needs oiling.	See page 19	