

COMPUTER SEWING MACHINE



INSTRUCTION MANUAL

EN



Please read this instruction manual before using the machine as it contains important operational and safety information. Keep this manual accessible so that you may refer to it at anytime while operating the machine.

"IMPORTANT SAFETY INSTRUCTIONS"

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

"DANGER _____ To reduce the risk of electric shock:"

- 1. The appliance should never be left unattended when plugged in.
- 2. Always unplug this appliance from the electric outlet immediately after using and before cleaning.

"WARNING _____ To reduce the risk of burns, fire, electric shock, or injury to persons:"

- 1. Do not allow this appliance to be used as a toy. Close attention is necessary when this appliance is used by or near children. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- 2. Use this appliance only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- 3. Never operate this appliance 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 the appliance to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- 4. Never operate the appliance with any air openings blocked. Keep ventilation openings of the sewing machine and foot control free from the accumulation of lint, dust, and loose cloth.
- 5. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- 6. Always use the proper stitch plate. The wrong plate can cause the needle to break.
- 7. Do not use bent needles.
- 8. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- 9. Switch the sewing machine off "O" when making any adjustments in the needle area, such as changing needle, threading bobbin, or changing presser foot.
- 10. Always unplug the machine from the electrical outlet when removing covers, when lubricating or when making any other user servicing adjustments mentioned in the instruction manual.
- 11. Never drop or insert any object into any opening.
- 12. Do not use outdoors.
- 13. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- 14. To disconnect, turn all controls to the off "O" position, then remove plug from outlet.
- 15. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- 16. Basically, the machine should be disconnected from the electricity supply when not in use.
- 17. If the power cord of this appliance is damaged, it must be replaced with a special cord by your nearest authorized dealer or service center.
- (Except USA/Canada) This machine is provided with double insulation. Use only identical replacement parts. See instructions for servicing Double-Insulated machine.

"SERVICING DOUBLE-INSULATED PRODUCTS"

In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product nor should a means for grounding be added to the product. Servicing a double-insulated product requires extreme care and knowledge of the system and should only be done by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words DOUBLE INSULATION or DOUBLE INSULATED. The symbol 🔲 may also be marked on the product.

"SAVE THESE INSTRUCTIONS"

"This sewing machine is intended for household use only."

Congratulations on your purchase of a JUKI sewing machine.

Please be sure to read safety precautions in "To use the sewing machine safely" in the Instruction Manual before use to fully understand the functions and operating procedures of the sewing machine so as to use the sewing machine for a long time.

After you have read the Instruction Manual, please be sure to keep it together with the warranty so that you can read it whenever necessary.

The instruction manual is subject to change without prior notice for improvement.

Please visit the JUKI website for the latest version.

https://www.juki.co.jp/household_en/hsm/pdf/DX-4000QVP_EN_manual.pdf

To use the sewing machine safely

Marks and pictographs included in the Instruction Manual and shown on the sewing machine are used so as to ensure safe operation of the sewing machine and to prevent possible risk of injury to the user and other people.

Warning marks are used for different purposes as described below.

Indicates that there is a possible risk of death or serious injury if this mark is ignored and the sewing machine is used in a wrong manner.
Indicates the operation, etc. which can cause a possible risk of person- al injury and/or physical damage if this mark is ignored and the sewing machine is used in a wrong manner.

Pictographs mean the following:

\bigwedge	Danger warning which is not specified	There is a risk of elec- trical shock	There is a risk of fire	There is a risk of injury to hands, etc.
\bigcirc	Prohibit- ed matter which is not specified	Disas- sembly/ alteration is prohibited	Do not place fin- gers under the needle	Do not pour oil, etc.
0	Generally required behavior	Disconnect the power plug		

\rm MARNING

For the combination of the material and the thread and needle, in particular, refer to the explanation table in "Replacement of the needle".

If the needle or thread does not match the material used such as in the case that an extra heavyweight material (e.g., denim) is sewn with a thin needle (#11 or higher), the needle can break resulting in an unexpected personal injury.

Other precautions

Do not put the sewing machine under the direct sunlight or in a humid place.
 Do not wipe the sewing machine with solvent such as thinner.
 When the sewing machine is soiled, put a small quantity of neutral detergent on a piece of soft cloth and carefully wipe off the sewing machine with it.

Be aware that the following state can take place since the sewing machine incorporates semi-conductor electronic parts and precise electronic circuits.

• Be sure to use the sewing machine in the temperature range from 5°C to 40°C.

If the temperature is excessively low, the machine can fail to operate normally.



• The safety device of the sewing machine will work to stop the sewing machine in order to prevent the generation of abnormal heat in the case the sewing machine is continuously engaged in sewing at a low sewing speed for a long time or it is continuously engaged in sewing for a long time under the high temperature environment. In this event, Start and Stop button will not light.

The sewing machine will return to working condition after about 10 minutes.



* The operating temperature of the sewing machine is between 5°C and 40°C. Do not use the sewing machine under the direct sunlight, near the burning things such as a stove and candle, or in a humid place. By so doing, the temperature in the interior portion of the sewing machine can rise or the coating of the power cord can melt, causing fire or electrical shock.

• Be sure to move the sewing machine by holding its handles.

Do not hold portion (2) when you lift the sewing machine.



If the sewing machine is heavy, lift it by putting your arm through the arm section.



Basic screen operation method



CAUTION

For customers in the USA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

For customers in the Europe

This radio equipment is intended to be used with the approved version(s) of software that are indicated in the EU Declaration of Conformity.

The software loaded on this radio equipment is verified to comply with the essential requirements of the Directive 2014/53/EU.

"NOTES DE SECURITE IMPORTANTES"

Lorsque vous utilisez un appareil électrique, des précautions élémentaires doivent toujours être suivies, comme celles-ci. Lisez attentivement ces instructions avant d'utiliser cette machine à coudre.

"DANGER __ Pour réduire le risque d'électrocution:"

- 1. L'appareil ne doit jamais être laissé sans surveillance une fois branché.
- 2. Toujours débrancher cet appareil du secteur immédiatement après utilisation et avant de le nettoyer

"ATTENTION ____ Pour les risques de brûlure, électrocutions et de blessures:"

- 1. Ne pas prendre la machine domestique pour un jouet. La plus grande prudence est de mise quand la machine est utilisée par des enfants ou quand elle se trouve à leur proximité. Cette machine à coudre peut être utilisée par des enfants âgés de 8 ans et plus ainsi que par les personnes ayant des capacités physiques, sensorielles ou mentales réduites, ou le manque d'expérience et de connaissances seulement si elles ont été formées et ont reçues les instructions concernant l'utilisation de la machine à coudre de manière sûre et comprendre les risques encourus. Les enfants ne doivent pas jouer avec la machine à coudre. Le nettoyage et l'entretien ne doit pas être fait par des enfants sans surveillance.
- 2. N'utiliser cet appareil que dans le cadre de ses fonctions, mentionnées dans le présent manuel. N'utiliser que les piéces fournies ou recommandées par le fabricant dans ce manuel.
- 3. Ne pas utiliser cet appareil si une de ses prises ou cordons est endommagée, ou s'il ne fonctionne pas correctement. S'il est tombé, a été endommagé, tombé dans l'eau, retournez l'appareil auprès de votre revendeur le plus proche pour une réparation, ou une vérification technique ou électrique.
- 4. Ne jamais utiliser cet appareil dans un lieu dépourvu d'aération. Maintenez une ventilation suffisante autours de la machine et du rhéostat et éviter la poussière et les chutes de tissus aux alentours des sources d'aération de la machine.
- 5. Eloigner vos doigts des pièces mobiles de la machine. Faites particulièrement attention aux mouvements de l'aiguille.
- 6. Toujours utiliser la plague aiguille appropriée. Un plague non appropriée peut faire casser l'aiguille.
- 7. Ne pas utiliser d'aiguilles courbes.
- 8. Ne pas tirer ou pousser le tissu lorsque vous cousez., cela pourrait abîmer, voire casser l'aiguille.
- 9. Mettre la machine à coudre hors tension « O » avant de faire tout réglage dans la zone de l'aiguille, comme enfiler ou remplacer l'aiguille, enfiler le fil de la canette ou remplacer le pied presseur.
- 10. Débranchez toujours votre machine lorsque vous ôtez le capot, lorsque vous la nettoyez, ou pour tout autre manipulation mentionnée dans le manuel d'instruction.
- 11. Ne jamais laisser d'objet entrer dans les ouvertures de la machine.
- 12. Ne pas utiliser à l'extérieur.
- 13. Ne pas utiliser lorsqu'un aérosol a été pulvérisé, ou lorsque de l'oxygène a été administré.
- 14. Avant de débrancher la machine, mettre l'interrupteur en position éteint ("O").
- 15. Ne pas débrancher en tirant sur le cordon. Pour débrancher, tenir la prise, pas le cordon.
- 16. En cas de non-utilisation, l'appareil doit, en principe, être séparé du réseau en retirant la prise.
- 17. Si le cordon spécial de cet appareil est endommagé, il doit être remplacé par votre agent autorisé le plus proche ou dans un centre de service.
- 18. Cette machine est équipée d'une double isolation (sauf aux USA / au CANADA). N'employer que des pièces de rechange originales. Se reporter aux indication pour la remise en état des produits à isolation double.

"ENTRETIEN DES PRODUITS A DOUBLE ISOLATION (Excepté USA / Canada)"

Un produit à double isolation est équipé de deux isolations au lieu d'une mise à la terre. La mise à la terre n'est pas prévue sur un produit à double isolation et ne devrait donc pas être employée. L'entretien d'un produit à double isolation qui exige de grands soins et des connaissances poussées sur le système, doit donc être réalisé seulement par du personnel qualifié. N'employer que des pièces de rechange originales pour l'entretien et la réparation. Un produit à double isolation est désigné de la manière suivante: "Isolation double" ou "A double isolement".

Le symbole peut également caractériser un tel produit.

"PRIERE DE CONSERVER SOIGNEUSEMENT LES PRES-**CRIPTIONS DE SECURITE**"

"Cette machine à coudre est destinée à un usage domestigue uniquement."

Consignes de sécurité

Merci d'avoir fait l'achat d'une machine à coudre JUKI.

Avant l'utilisation, veuillez lire les consignes de sécurité sous la section « Pour utiliser la machine à coudre en toute sécurité » du Manuel d'instructions, afin de comprendre parfaitement les fonctions et procédures d'utilisation de la machine à coudre, ainsi que pour prolonger sa durée de service.

Après avoir lu le Manuel d'instructions, veillez à le conserver, avec la garantie, de façon à pouvoir le consulter en tout temps.

Le manuel d'instructions est susceptible d'être modifié sans préavis à des fins d'amélioration. Veuillez visiter le site Web de JUKI pour obtenir la dernière version.

https://www.juki.co.jp/household_en/hsm/pdf/DX-4000QVP_EN_manual.pdf

Pour utiliser la machine à coudre en toute sécurité

Les symboles et icônes compris dans le Manuel d'instructions ou apposés sur la machine à coudre ont pour but d'assurer l'utilisation sécuritaire de la machine à coudre et de protéger l'utilisateur et autres personnes contre les risques éventuels de blessure.

Les symboles de mise en garde sont utilisés aux diverses fins décrites ci-dessous.

Indique un risque éventuel de décès ou de blessure grave en cas d'ignorance de ce symbole et d'une mauvaise utilisation de la machine à coudre.
Indique une utilisation qui comporte un risque éventuel de bles- sure et/ou de dommages matériels en cas d'ignorance de ce symbole et d'une mauvaise utilisation de la machine à coudre.

La signification des icônes est telle que décrite ci-dessous.

\bigwedge	Mise en garde contre un danger non spécifié	Risque de choc élec- trique	Risque d'in- cendie	Risque de blessure aux mains, etc.
\bigcirc	Interdiction non spéci- fiée	Démontage/ modifica- tion interdit	Ne pas mettre les doigts sous l'aiguille	Ne pas huiler, etc
0	Comporte- ment géné- ralement requis	Débrancher la fiche d'alimenta- tion		

Pour combiner l'aiguille en fonction de la matière et du fil, reporter vous à la section «remplacement de l'aiguille» Si l'aiguille ou le fil n'est bien adapté au tissu, comme dans le cas d'un tissu très lourd (p. ex. du jean) cousu avec une aiguille mince (n° 11 ou supérieure), l'aiguille risquera de se casser et de causer une blessure.

Autres précautions à prendre



Il faut savoir que l'état suivant peut avoir lieu du fait que la machine intègre des semi-conducteurs et des circuits électroniques.



* La température de fonctionnement de la machine à coudre est de 5 °C à 40 °C. Ne pas utiliser la machine à coudre sous la lumière solaire directe, près de sources de flammes telles qu'un poêle ou une chandelle, ni dans un emplacement humide. Cela risquerait de faire monter la température à l'intérieur de la machine à coudre ou de faire fondre la gaine du cordon d'alimentation, causant un incendie ou un choc électrique. • Veiller à déplacer la machine à coudre en la tenant par ses poignées.

Ne pas tenir la partie **(A)** lorsqu'on soulève la machine à coudre.



Si la machine à coudre est lourde, la soulever en passant le bras par la section du bras.



Notions de base pour utiliser l'écran



ATTENTION

À l'attention des clients aux États-Unis

Cet appareil est conforme à l'alinéa 15 de la réglementation FCC. Son utilisation est soumise aux deux conditions suivantes : (1) cet appareil ne doit pas provoquer d'interférences nuisibles et (2) cet appareil doit accepter toutes les interférences reçues, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

REMARQUE: Cet équipement a été contrôlé et satisfait aux limites concernant les appareils numériques de classe B, conformément à l'alinéa 15 de la réglementation FCC. Ces limites sont destinées à assurer une protection raisonnable contre des interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé conformément aux instructions, peut provoquer des interférences nuisibles aux communications radio. Toutefois, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou TV, ce qui peut être déterminé en éteignant puis en rallumant l'équipement, l'utilisateur est invité à essayer de corriger les interférences en prenant une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement dans une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consulter le revendeur ou un technicien radio/TV qualifié pour obtenir de l'aide.

Cet équipement est conforme aux limites d'exposition aux rayonnements FCC/IC établies pour un environnement non contrôlé et satisfait aux directives de la FCC en matière d'exposition aux radiofréquences (RF) et à la norme RSS-102 des règles de l'IC en matière d'exposition aux radiofréquences (RF). Cet équipement présente de très faibles niveaux d'énergie RF qui sont considérés comme conformes sans évaluation d'exposition maximale autorisée (MPE). Mais il est souhaitable qu'il soit installé et utilisé en maintenant le radiateur à au moins 20 cm du corps d'une personne.

Cet équipement ne doit pas être placé à proximité d'une autre antenne ou d'un autre émetteur ni être utilisé conjointement avec celui-ci.

À l'attention des clients en Europe

Cet équipement radio est destiné à être utilisé avec la ou les versions de logiciel approuvées indiquées dans la Déclaration de conformité européenne.

Le logiciel chargé sur cet équipement radio est conforme aux exigences essentielles de la Directive 2014/53/UE.

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1. Configuration and functions



1.1. Operating buttons

		Name	Function		
1	~	Thread trim- ming button	After sewing, press this button to trim both threads automatically. The sewing machine stops with its needle up after thread trimming. In the case of 2-needle setting, this button will not operate even if the thread trimming button is pressed.		
2	1:	Needle up/down button	When machine stops, press this button to change the needle position. When the needle is up, the needle moves down and vise versa. The sewing machine performs sewing at a low speed by keeping this button held pressed for a long time.		
3	° 🗚/8	Feed dog UP/ DOWN / LOCK MODE button	 When you press this button while the sewing machine is at rest, the feed dog position is changed over. Lamp lights up: The feed dog is at its lower position Lamp goes out: The feed dog is at its upper position *1 If you keep this button held pressed, all operations can be disabled (lock mode). If you keep it held pressed again, the lock mode will be reset. 		
3		Presser foot auto lift button	When this button is pressed while the sewing machine is at rest, the presser foot position is changed. When the presser foot is in its upper position,it comes down to its lower position and vice versa.		
4	≁[]]] ¥	Speed control- ler	Sewing speed can be adjusted with the sliding lever of Speed Controller freely. The sewing speed is increased by moving the speed controller to the right, or decreased by moving it to the left. When sewing with foot controller, Max. sewing speed can be set by Speed Controller.		
5	\bigcirc	Lock stitch but- ton	When this button is pressed, the sewing machine performs lock stitch. When this button is pressed while the sewing machine is engaged in pat- tern sewing, the sewing machine stops after it has completed the sewing of the one-cycle/one-point of the pattern.		
6	$\textcircled{\textbf{0}}$	Reverse stitch button	For straight stitch/zigzag stitch: The sewing machine performs reverse stitch as long as this button is held pressed. For other stitch types: The sewing machine performs lock stitch.		
0		Start/stop but- ton	 When pressing this button, machine starts to sew slowly and then up to the speed set by speed controller. Another press of this button stops the sewing machine. Color of button indicates machine status. Green: Ready to start and/or while sewing Red: Not ready to start Orange: When the lock stitch button is pressed while the sewing machine is engaged in pattern sewing (The sewing machine performs lock stitch after it has completed the sewing of the pattern by one cycle. Then, the sewing machine stops.) * When the foot controller is plugged in, the start/stop button cannot be used to start sewing. Start button: Can not operate to start sewing. 		

A Lock Mode given in the Instruction Manual refers to the

operation to "keep the feed dog UP/DOWN / LOCK MODE button held pressed to disable operation of the all keys". (Refer to page 22)

* 1

1.2. Operation panel



Tap the screen with your fingers.

When you have changed the setting, the color of the screen display changes. White: Initial value Blue: Changed value

	Name	Function			
	Tab	Select the screen according to your purpose.			
	Support	Main usage of the sewing machine can be checked. (Refer to page 107)			
	Setting	Setting of the functions (17 kinds) can be changed. (Refer to page 108)			
۵	Sewing	Selection and adjustment of the pattern can be carried out.			
	History	Information on the patterns you have sewn remains as history. If you want to sew the pattern using the condition you have set previously, you may select it from the history.			
	JUKI Sewing Net	JUKI website is displayed.			
₿	Adjusting Dial	Function of the adjusting dial differs with the selected pattern. Function and the numeric value are displayed on the screen. Type: "Presser foot pressure", "Stitch length", "Zigzag width", "Tapering length", "Elongation"			

		Name	Function					
A	ПАВ	Presser Foot	Suitable presser foot for the stitch pattern is displayed.					
₿		Needle Position	Needle position ▼ is displayed.					
		Type of Throat Plate	The type of throat plate is displayed.					
C			: Standard throat plate					
			Throat plate for straight stitch					
D	-	Sewing Condition	Stitch Pattern which is sewn currently or to be sewn is displayed.					
•		Sewing-start back	Automatic back tacking at the start of sewing can be set.					
0		tacking icon	S : OFF (1) : Reverse stitch (1) : Lock stitch					
		Thread tension icon	Press the thread tension icon when you want to change the thread ten-					
9	K		sion. The thread tension set value will be returned to the initial value by select- ing a different pattern.					
		Sewing-end back	Automatic back tacking at the end of sewing can be set.					
3		tacking icon	: OFF : Reverse stitch : Lock stitch					
4	001	Pattern selection	Press this icon to select a pattern.					
		icon	Pattern number of the selected pattern is displayed.					
6	6	Pattern edit icon	Stitch patterns can be edited.					
6	5	"JUKI Smart Feed" adjustment icon	Adjustment value of "JUKI Smart Feed" can be set.					
0	X.	Presser foot auto lift icon	Presser foot lifting after thread trimming can be set.					
		Automatic thread	Back tacking and thread trimming can be set.					
8	×	trimmer icon	💥 : OFF ≥€ : ON					
9	••••	Needle position icon	Press this icon to change the needle position.					
		USB icon	This icon is displayed on the pattern edit screen when a USB thumb drive					
0	Ŧ		is inserted into the USB slot of the sewing machine. Patterns can be "captured" from and "written" in the USB thumb drive by pressing this icon.					
0		Repetition sewing	This icon can be used to set for sewing a combination pattern in repetition or for sewing a single pattern by one cycle. In the case of sewing the pattern by one cycle, "1" is displayed. Initial setting Single pattern: Repetition Combination pattern: 1					

2. Accessories



Inside of the auxiliary bed





3. Set-up

3.1. How to install Wide Table



* Don't put any heavy materials on the Wide Table.
 * Don't move sewing machine with Wide Table attached.

3.2. Changing the position of the foot switch

The lateral position of the foot switch in reference to the pedal can be changed. Use the foot switch at your desired position.



3.3. Installation of knee lifting lever



Insert the knee lifting lever **1** so that concave **3** and convex **2** meet.

4. Basic settings and basic operations

4.1. Connecting to the power supply

🛕 WARNING

• Disconnect the plug and turn off the power switch (turn to "O") that always sewing machine is not to use.

Connecting the codes



Turn OFF the power switch (turn to "O")

🛕 WARNING (For U.S.A.,Canada only)

This appliance has 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 the plug 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.



Not-using foot-controller that using start/stop-button:

② Insert cord-connector ② into machine-socket-inlet ①.
 Insert plug ③ into socket-outlet.



• Using the foot-controller:

- Insert the foot-controller-plug into the foot-controller-jack 4.
- ③ Insert cord-connector into machine-socket-inlet. Insert plug into socket-outlet.
- * When the foot controller is plugged in, the start/stop button cannot be used to start sewing.
- Start button: Can not operate to start sewing.
- Stop button: Can operate to stop sewing.

Turning the power ON



Turn ON the power switch. (Turn to "I")

* Be aware that the presser foot goes up automatically when the power to the sewing machine is turned ON.



- The screen shown on the left is displayed when you turn ON the power to the sewing machine for the first time after the delivery.
- 1. Select the language for display.
- 2. Press [Start].
- 3. Set the wireless LAN to which the sewing machine is connected.
- 4. Enter the password for the wireless LAN.
- 5. Press [CONNECT] .
- * This screen is not displayed when you turn ON the power to the sewing machine next time.



The screen shown on the left when the power to the sewing machine is turned ON.

The needle moves and the screen shown on the left disappears by pressing [OK] .



Do not place fingers under the needle

Lock mode



If the sewing machine is put in the lock mode, operation of all operating buttons, operating keys and operation panel will be disabled. In addition, the sewing machine itself will also be disabled.

Even in this state, the presser foot lifting lever and the knee lifting lever can be operated.

The power to the sewing machine should be turned OFF for the sake of safety when changing the presser foot, changing the throat plate and feed dog, changing the needle or taking care of the sewing machine. However, those kinds of work can be carried out while retaining the current settings of the sewing machine by putting the sewing machine in the lock mode.

- When you want to put the sewing machine in the lock mode, keep the feed dog UP / DOWN / LOCK MODE button held pressed for two seconds.
- When you want to reset the lock mode, keep the feed dog UP / DOWN / LOCK MODE button held pressed for two seconds.
- When turning off the machine, lock mode is disengaged.

4.2. Speed control

Speed controller



Maximum sewing speed can be freely set by the speed controller.



Foot controller



Low-speed inching sewing

To run the machine, press the foot controller. The harder you press, the faster the machine sews. Speed controller will set the maximum sewing speed.

1 Pressing harder \rightarrow faster speed **2** Pressing weaker \rightarrow slower speed

* Always clean the foot controller. It is important that you do not place any objects on the foot controller as it may cause injury to the user and may cause malfunctions.



Stitch speed

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Low speed

High speed Reverse stitch speed

Low speed

Medium speed

Medium speed

When the needle up/down switch is held pressed, the sewing machine performs sewing at a low speed.

Setting > Stitch speed Adjustable starting stitch speed

From the setting, the sewing speed at the start of sewing can be changed. (Refer to page 112)

Setting > Stitch speed Adjustable reverse stitch speed

From the setting, the sewing speed for the reverse stitching can be changed. (Refer to page 112)

M

-1)

Pivot

ng adj

ser foot lifting height

Cancel safety

4.3. Lifting/lowering of the presser foot

Presser foot lifting lever

The presser foot **(B)** is lifted/lowered with the presser foot lifting lever **(A)**. The presser foot can be lifted higher than the ordinary lift position. This feature is useful when placing a heavy-weight material on the sewing machine.

Even after the presser foot has been lifted with the presser foot lifting lever, the presser foot can be lowered with the presser foot auto lift button.

- Lowered position..... Presser foot should be lowered when sewing.
- Ordinary lift position...... This position is used for fabric removal and/or changing the presser foot.

Extra lift position...... This position is used to put heavy

materials underneath the presser foot.

* Be careful that the presser foot and the needle should not interfere when the needle is in down position and the presser foot is raised to the extra lift position.

Presser foot auto lift button

The presser foot can be lifted/lowered by pressing the presser foot auto lift button. (Refer to page 14)

Operation of the presser foot lifting lever is enabled by lifting the lever to position ③ once after lifting the presser foot with the presser foot auto lift button.

Knee lifting lever



It is possible to lift and lower the presser foot with your knee instead of using your hands.

Push the lever (a) to right-hand side to lift the presser foot. The presser foot is lowered when the lever goes back to the original position.

The presser foot can be lifted to the extra lift position with the knee lifting lever as in the case of using the presser foot lifting lever.

Operation of the knee lifter lever is enabled by pressing the lever to the rightmost position after lifting the presser foot with the presser foot auto lift button.

* Do not touch the knee lifting lever while sewing. If you touch the knee lifter lever during sewing, the presser foot will go up causing a deformation in the pattern.

Automatic lowering of the feed dog when lifting the presser foot

When you lift the presser foot to its extra lift position with the knee lifting lever, the feed dog automatically comes down to its lower position.

This feature is helpful for placing the material under the presser foot or removing it from there as well as preventing the material from being damaged since the material will not be caught in the feed dog.

Automatic presser foot lifting

Setting > Pivot setting

It is possible to set so that the presser foot goes up automatically with the needle kept at the lower position when the sewing machine is stopped.

Sewing > (Presser foot lift after trimming setting)

It is possible to set so that the presser foot goes up automatically after thread trimming.

4.4. Changing the presser foot

Removing and installing the presser foot





Removing presser foot

Raise the needle.

Move up the presser foot lifting lever.

Press the presser foot releasing button **1** to remove the presser foot.

Installing presser foot

Align the pin ② of the presser foot and the groove ③ in the presser foot holder.

Move down the presser foot lifting lever.

* Each presser foot has a marking ④ . Use the appropriate presser foot for the stitch pattern to be sewn.

Removing and installing presser foot holder



Removing presser foot holder

Lift the needle and presser foot lifting lever. Loosen the setscrew **1** of the presser foot holder to the left and remove the presser foot holder **2**.

Installing presser foot holder

Align the screw hole at the presser bar ③ with the hole of presser foot holder ④ (long groove). Tighten the setscrew ① firmly by turning it to the right side.

The type and application of the presser foot

Standard presser foot	Α	This is used mainly for straight stitch and zigzag stitches. Use this presser foot especially when sewing heavy-weight materials.
Zipper presser foot	В	This is used to attach zippers.
Overcasting presser foot	С	This presser foot is used exclusively for overcasting to prevent the cut edge of fabrics from fraying.
Blind stitch presser foot	D	This presser foot is used for blind stitch on hems of trousers and skirts, or sleeves.
Buttonhole presser foot	Е	This presser foot is used for automatic buttonholing.
Manual buttonhole presser foot	I	This is used for sewing decorative stitches, letters and bartacks Also for manual buttonhole (pattern No.102, No.103).
Patchwork presser foot	Ρ	This presser foot is used for patchwork stitches. There are two seam lines, 1/4-inch and 1/8-inch from center needle position.
Open toe presser foot	0	This is used for the applique and decorative stitches. (Front part of the presser foot is open for better visibility.)
Quilt presser foot (for the ruler)	Q	This is used for the quilt stitch. (Machine setting: Straight Stitch and Center needle position) The ruler can be used together with the quilt presser foot.
Edge Sewing presser foot	R	This presser foot is used for patchwork, etc. Use the guide at the center of the edge sewing foot for sewing the center of the joining part of two pieces of materials.
Straight presser foot	S	Use this presser foot when using the throat plate for straight stitch.
7mm guide foot or 1/4" guide foot	7	This guide presser foot is provided with a guide for 7-mm or 1/4-inch seam allowance for piecing.
Rolled hemming presser foot	-	Fabric edge is hemmed while rolling it under. Used for bottom of shirts, blouses, frills and the edge of hand- kerchiefs.
Quilt presser foot (zigzag type)	-	It is used for free-motion quilting. Zigzag stitch is also possible with this presser foot.

4.5. Placing and releasing "JUKI Smart Feed"

"JUKI Smart Feed" is used when sewing the materials (knit, jersey, vinyl cloth, artificial leather, etc.) that are generally hard to be fed, and the materials (quilt, etc.) that are likely to cause uneven material feed.

"JUKI Smart Feed" can only be used for sewing limited types of patterns.

Refer to "12. List of stitch patterns" for the patterns that can be sewn with the "JUKI Smart Feed".







Placing "JUKI Smart Feed"

Raise the presser foot.

Fully lower "JUKI Smart Feed" **1** while pinching it with fingers.

When "JUKI Smart Feed" is fitted appropriately, the relevant icon is displayed on the screen.

Adjusting "JUKI Smart Feed"



Adjust the "JUKI Smart Feed" by sliding your finger on the scale mark part.

The "JUKI Smart Feed" can also be adjusted by turning the adjusting dial.

(Setting range: -5.0 - 5.0)

The top feed amount is decreased.

The top feed amount is increased.



Blue: Changed value

When you tap the portion above the semicircular portion shown in the above-given figure, the setting you have done is confirmed. Then, the screen returns to the previous screen.

Releasing "JUKI Smart Feed"

Raise the presser foot.

Pinching "JUKI Smart Feed" ①, pull it down and push backward until it is brought to its upper position.



4.6. Changing the throat plate and the feed dog

The normal throat plate and feed dog can be changed to the throat plate and feed dog for straight stitch. In the case of starting sewing from the edge of material, the material can be smoothly fed without being pulled into the needle hole by changing the throat plate and feed dog to those for straight stitch.





Turn off the machine or leave the Machine in Lock Mode

Removing the throat plate

Remove the presser foot and needle.

Push the T-shape screwdriver ② into the groove in front of the throat plate ①. When pressing the screw-driver downward, throat plate will come off.

Removing the feed dog

Push the T-shape screwdriver **2** into the groove in the back of the feed dog **3**. When pressing the screw-driver downward, feed dog will come off.

Attaching the feed dog

Follow the angle in the sketch and place the feed dog so that the pins ④ of the feed dog meet the groove ⑤ in the back of feed dog.

Press down the front part of feed dog and engage the feed dog.

Attaching the throat plate

Place the area () first and then push center to right hand part of the throat plate to assemble ().

Patterns that can be sewn with the throat plate for straight stitch

001	004	030	418	419	420
9					

Once the throat plate and feed dog for straight stitch are installed, the limited types of patterns that can be sewn with them can be selected.

4.7. How to use the throat plate for straight stitch

The throat plate is provided with a useful guide for you to determine the sewing position of material.



Throat plate for straight stitches

Guide lines

It is possible to sew the material from its edge by sewing the material while aligning its edge with the guide line on the throat plate.

- On center needle position basis5 mm
- * Numbers on the guide line show the distance in mm and inches between the center needle position and the guide line.

Numbers, 7, 10 and 20 are millimeter. Numbers, 1/4, 5/8 and 1 are inches.



Angle index

The angle index is useful when using it for piecing of patchworks.

If you align the material edge with the angle index which is same of the angle of patchwork (piece) corner ③, you will know the start and end positions while setting the seam allowance to 7 mm without marking the material.

4 Guide

4.8. Attaching the needle



A Turn off the machine or leave the Machine in Lock Mode

Removing needle

Turn the hand wheel towards you until the needle comes to the highest position and lower the presser foot.

Turn the needle setscrew **2** towards you 1-2 times and remove the needle.

T-shape screwdriver



Attaching the needle

Hold the needle with its flat part facing away from you (3), and insert it fully until it touches the stopper pin 4. Securely tighten the needle setscrew.

The needle cannot be inserted unless it is correctly positioned.

Needles to be purchased

When purchasing spare needles, specify HA×1 (130/705H) or HA×1 SP (needle for knits).



Needle size:

The larger the number, the thicker the needle.

Checking the needle



Check the needle for its straightness occasionally. Any bent needle would cause skipped stitches, thread breakage or damage

- to materials.
- The flat part of the needle
- 6 Flat object

Attention: If the needle is not properly installed or a bent needle is used, needle breakage can be caused. It will cause damage to the machine.

4.9. Fabric, thread and needle table

	Fabric	Thread	Needle
			HA×1
Light-weight	Lawn	Silk thread No.80,90	No 11
materials	Georgette	Spun thread No.80,90	
	Tricot	Spun thread No.60-90	Knit needle No.11
	Wool and synthetic fabrics	Silk thread No.80 Spun thread No.60-90	No.11-14
Medium-weight materials	Cotton and synthetic fabrics	Spun thread No.50, 60	No.11-14
0	Light jersey	Silk thread No.50 Spun thread No.50, 60	Knit needle No.11
	Ordinary wool and synthetic fabrics	Silk thread No.50 Spun thread No.50, 60	No.11-14
Heavy-weight materials	Denim	Spun thread No.30-50	No.14-16
	Jersey	Silk thread No.50 Spun thread No.50, 60	Knit needle No.11-14
	Coat	Silk thread No.50	No.11-14

- * In general, the same thread is used for both needle and bobbin threads.
- * Thin thread and needle will be used for light-weight fabrics and thick thread and needle will be used for heavyweight materials.
- * Check that the combination of needle and thread is OK by trial sewing on the material which will be sewn.
- * Knit needle is good for stretchy fabrics (such as knits) and synthetic fabrics.
- * Use thread No. 30 90.
- * When it is difficult to go over an overlapped section, guide the fabric by hand.
- * When sewing "quilt patterns", "decorative patterns" or "letters", better finish will be ensured by using a knit needle.

4.10. Bobbin thread preparation

Winding a bobbin



In the case of using the spool pin

Place the thread spool to the spool pin.

There are three types of the spool caps (2), large, medium and small.

Select the size of spool cap according to the thread spool to be used and use it while changing its direction appropriately.

* Be aware that a spool with a small remaining amount of thread can cause tangling or slip-off of thread.

f 2 Thread the guide f 0 .

Thread the thread guide 2 (guide in the circle).

Pull the thread by both hands and thread it to bobbin winding thread guide.

- In the case of using the auxiliary spool pin
 - Place the auxiliary spool pin.

Place the thread spool to the auxiliary spool pin.

Pass the thread through thread guide
① . Then, pass the thread through thread guide for bobbin winding ② .
Pull the thread by both hands and thread it to bobbin winding thread guide.



* The bobbin winder automatically stops for the sake of safety after it has turned continuously at a certain period of time.





5 Thread 3 .

* When pulling bobbin thread, bobbin rotates counterclockwise. If bobbin rotates clockwise, put the bobbin upside down.



6 Pull the thread along the guide until builtin cutter is reached. Finally, trim the thread with built-in cutter .



7 Close the hook cover.

You can start to sew in this condition (without pulling up the bobbin thread), however, if you want to sew with the bobbin thread pulled out, refer to "Pulling up the bobbin thread" in the page 40.
4.11. Needle thread preparation

Preparation





🛕 Turn off the machine

Make sure to push the needle to the top.

If the needle is not attached appropriately, the needle cannot be threaded with the automatic needle threader.

- * Use the needle: No.11-16 and the thread: No.30-90.
- **2** Align the marking **(a)** at the hand wheel with the one on the machine body.



Turn the power ON.



4 Lift the presser foot.

* You can thread the machine correctly on condition that the machine is turned on and presser foot is up position.



5 Keep the feed UP / DOWN / LOCK MODE button held pressed to put the sewing machine in the lock mode.

Threading the needle thread





Place the thread spool to the spool pin.

There are three types of the spool caps **(B)**, large, medium and small.

Select the size of spool cap according to the thread spool to be used and use it while changing its direction appropriately.

* Be aware that a spool with a small remaining amount of thread can cause tangling or slip-off of thread.



2 Thread to guide 1.

Hold the thread end and thread according to the arrow marking.

* Check that the thread take-up **(b)** is correctly threaded.

Thread the guide 6 from the right-hand side.

Draw the needle thread out from the guide by approximately 10 cm.

Automatic needle threader

8 * Be careful that the cutter is inside.

Turn off the machine or leave the Machine in Lock Mode

- * When twin needle is used, the automatic needle threader can not be used.
- * Use the needle: No.11-16 and the thread: No.30-90.

Lower the presser foot with the presser foot lifting lever.

* The automatic needle threader sometimes fails to thread the needle when the presser foot is raised.

Thread to 7 and cut the thread with the thread cutter 8.

Lower the threading lever 9 until it comes to a complete stop.

* Lower the threading lever slowly.

4 Pull the thread loop away from you and draw the thread end through the needle eyelet.

Lift the presser foot. Then, draw the needle thread backward. Pull out the thread from the needle eye by approx.10 cm or 4 inches long.

It is possible to start sewing without pulling up the bobbin thread.

Pulling up the bobbin thread



Basic operation:

You can start to sew without pulling up the bobbin thread, however, if you want to sew with the bobbin thread pulled out, follow the directions below.

Lift the presser foot and lightly hold the end of the needle thread.

2 Turn the hand wheel towards you to move the needle up and down. Loop of bobbin thread will be pulled out when you will pull the needle thread lightly.

Pull out both needle and bobbin threads by approx. 10 cm (4 inches) long and pass them under the presser foot towards the back of the machine.

4.12. How to adjust thread tension

If the thread tension is not adjusted correctly, seam balance will be lost resulting in puckering or thread breakage. Default setting is suitable for most fabrics. Adjustment may be necessary according to fabrics and sewing applications. Thread tension can be changed even during sewing.







Adjust the thread tension by sliding your finger on the scale mark part.

The thread tension can also be adjusted by turning the adjusting dial.

(Setting range: -5.0 - 5.0)

The needle thread tension is decreased.

The needle thread tension is increased.



White: Initial value Blue: Changed value

When you tap the portion above the semicircular portion shown in the above-given figure, the setting you have done is confirmed. Then, the screen returns to the previous screen.

* If a new pattern is selected, the set value will be returned to the initial value.

Well-balanced thread tension





<In the case of straight stitch>

The needle thread and the bobbin thread interlace with each other approximately at the middle of material thickness.

- Needle thread
- Bobbin thread
- Sabric (right side)
- 4 Fabric (wrong side)
- Middle of the fabric thickness

<In the case of zigzag stitch>

The needle thread is pulled a little bit to the wrong side of material.

When the needle thread is too strong



The bobbin thread will be pulled to the front side of the fabric. In this case, decrease the thread tension value (to decrease the needle thread tension).

When the needle thread is too low



The needle thread will be pulled to the wrong side of fabric. In this case, increase the thread tension value (to increase the needle thread tension).

4.13. Setting the presser foot pressure

Presser foot pressure can be changed even during sewing.



4.14. Setting the micro-lifter

It is possible to sew the material with the presser foot slightly lifted according to the material thickness.

The micro-lifter function is used for sewing materials such as quilt and velvet that are likely to cause uneven material feed.

Micro-lifter lifting height can be changed even during sewing.



Set the presser foot pressure by turning the adjusting dial located below the indication [Presser foot pressure]. (Setting range: 0 - 5)

Set the presser foot pressure to "3.6" (initial value) in the case of standard stitching.

Set the presser foot pressure to a smaller value (decrease the presser foot pressure) in the case of sewing light-weight synthetic materials or elastic materials, and sewing applique, quilt and curve sections of materials, since in that case uneven material feed is likely to occur.



Adjust the presser foot height by adjusting the presser foot pressure value.

Set the presser foot height by turning the adjusting dial located below the indication [Presser foot pressure]. (Setting range: -2.5 - 0)

In the case it is not necessary to slightly lift the presser foot during sewing, set the presser foot height for the micro-lifter function to "0".

Set the presser foot height by turning the adjusting dial so that the presser foot appropriately holds the material. The larger the negative set value becomes, the higher the presser foot can be lifted.

Presser foot pressure value is decreased.

Presser foot pressure value is increased.

Place the material (for trial stitching) that is the same with the material to be actually sewn. Then, adjust the presser foot height and carry out trial stitching.

Be aware, if the presser foot is lifted excessively during sewing, the material cannot be fed resulting in thread entanglement.

4.15. Setting the automatic back tacking, thread trimming and presser foot lifting

The back tacking at the beginning and end of sewing and the back tacking and thread trimming / presser foot lift after thread trimming at the end of sewing can be set.



Select a pattern. Set operations of the sewing machine by pressing the relevant button on the screen.

Setting for the back tacking at the beginning of sewing									
Select one from the three types of back tacking.									
S : OFF : Reverse stitch : Lock stitch									
Setting for the back tacking at the end of sewing									
Select one from the three types of back tacking.									
: OFF : Reverse stitch : Lock stitch									
Presser foot lift after thread trimming									
: OFF The presser foot is not lifted after thread trimming									
: ON The presser foot is lifted after thread trimming									
Back tacking and thread trimming									
Solution: Soluti									
>8 : ON Thread trimming is carried out									

In the case of setting the automatic back tacking

Sewing start

Place the material at the sewing start position and begin sewing. In the case the back tacking at the beginning of sewing is selected, the reverse stitch button and back tacking button will not operate.

Sewing end

Press the button which corresponds to the type of back tacking you have selected.



Even if you press the button that does not correspond to the type of back tacking you have selected, the back tacking you have selected will be carried out.





4.16. When changing the needle position

The needle position can be changed even during sewing.



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Change the needle position by sliding your finger on the scale mark part.

The needle position can also be changed by turning the adjusting dial.

The needle is moved to the left.

The needle is moved to the right.



White: Initial value Blue: Changed value

When you press , the needle is brought to the leftmost position.

When you press , the needle is brought to the rightmost position.

The leftmost end represents "0.0" The rightmost end represents "7.0".

The needle position is represented by igvee of



Numeric values displayed on the screen: In mm

When you tap the portion above the semicircular portion shown in the above-given figure, the setting you have done is confirmed. Then, the screen returns to the previous screen.

* If a new pattern is selected, the set value will be returned to the initial value.

4.17. When changing the zigzag width

Zigzag width can be changed even during sewing.



Change zigzag width (A) by turning the adjusting dial located below the indication [Zigzag width].



The displayed numeric value is decreased and the zigzag width is decreased by turning the dial counterclockwise. The displayed numeric value is increased and the zigzag width is increased by turning the dial clockwise. The zigzag width can be adjusted while sewing.

Numeric values displayed on the screen: Measure of the zigzag width (In mm)



4.18. When changing the stitch length

Stitch length can be changed even during sewing.



Change the stitch length by turning the adjusting dial located below the indication [Stitch length].



The displayed numeric value is decreased and the stitch length is decreased by turning the dial counterclockwise. The displayed numeric value is increased and the stitch length is increased by turning the dial clockwise.

Numeric values displayed on the screen: Measure of the stitch length (In mm)



4.19. Setting the stop position of needle

It is possible to set the position of the needle (upper or lower position) at the time of stopping the sewing machine.



Select [Stop position of needle] from [Setting].

Select the "Lower stop position" or the "Upper stop position".

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

* In the case the "upper stop position" (the sewing machine stops with its needle up) is selected, the pivot function will be automatically turned OFF.

4.20. Pivot setting

It is possible to set so that the presser foot goes up while the needle is kept at the lower position at the time of stopping the sewing machine.



Select [Pivot] from [Setting].

Setting the ON / OFF of the pivot function



• Setting the pivot height

Set the pivot height by sliding the slide bar with your finger to the right or left.

Ļ	Pivot	•	
₽	Height <u>∔</u> 12.0 2.0	<u>부</u> 6.0	
<u>د</u>			

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

5. Setting for the pattern sewing

5.1. Single mode / Combination mode

Some of the patterns cannot be sewn depending on the mode selected. The list of patterns is shown on the inside of the top cover of the sewing machine.

5.1.1. Single mode

Under the single mode, the sewing machine directly sews the pattern you have selected.



Selecting the pattern



Select the pattern you want to sew from among [Practical], [Buttonhole], [Appliqué], [Tapering], [Quilt line], [Scallop], [One-point], [Decorative], [Vintage], and [Feather / Lace].

<How to select the pattern>

- Press the pattern icon.
- Enter the pattern number.

Setting for the repetition stitching (single mode)



The setting can be changed by pressing the icon.



: The pattern is sewn in repetition (continuously) (Initial setting)

: One stitch is sewn : One cycle is sewn

5.1.2. Combination mode

The combination stitching mode is used for sewing two or more patterns in combination. As many as 70 petterns can be combined in one combined pattern. As many as 10 combined in one combined pattern.

Selecting a pattern (letter)



Setting for the repetition stitching (combination mode)



The setting can be changed by pressing the icon.

(Initial setting)



: Selected pattern or selected combination of patterns is sewn once.

B:

Selected pattern or selected combination of patterns is sewn continuously.

5.2. Types of patterns under the single mode, and how to selected a pattern

 \precsim There are 368 types of stitch patterns.

 \precsim When turning on the machine, the straight stitch of the center needle position is chosen automatically.



- Select the type of pattern.
 [Practical] [Buttonhole] [Appliqué] [Tapering]
 [Quilt line] [Scallop] [One-point] [Decorative]
 [Vintage] [Feather / Lace] [Combination]
- 2 Press the pattern icon.

Alternatively,

- 1 Enter the pattern number.
 - The number is increased one by one by tapping it.
 - It is also possible to change the number by turning the adjusting dial.
- ② The screen which contains the pattern with the number you have input is displayed. Select the pattern icon you want to sew.

No.	Pattern	Application		Refer to page	No.	Pattern	App	lication	Refer to page	
001		Center needle position		67	009	٦	Right needle position	7:	-	
002	P 7	Piecing 7mm	Straight stitch	Straight stitch	73	010	<u>و</u>	Left needle position	Zigzag stitch	-
003	(1 /4″	Piecing 1/4"		73	011	W	Ornamental pa	ttern	-	
004		Straight reinforced stitch		-	012	\sim	Two point zig zag		-	
005	•	Left needle position	Straight stitch	67	013	\mathbf{i}	Triple standard	zigzag	-	
006	ł	Center needle position	Straight stitch for elastic	-	014		Three point zig zag		-	
007	¥	Zigzag stitch	ag stitch		015	7777	Butting stitch		-	
008	٤	Triangular zigza	ıg stitch	-	016		Overcasting stitch		74	

5.2.1. Practical

No.	Pattern	Application	Refer to page
017		Overcasting stitch	74
018	UXV	Overcasting stitch Used for lightweight material	74
019			-
020		Overcasting stitch Used for flexible material	-
021			-
022	$\nabla \! \nabla$		-
023	MM	Ornamental pattern	-
024	XXX		-
025	//	Blind stitch	75
026	/V	Blind stitch Used for lightweight material	75
027	~~~	Blind stitch Used for flexible material	75
028	\geq	Shell tuck	78
029			78
030		Back straightline stitch * Proceed with the reverse stitch button.	-
031	Ĩ	Back zigzag stitch * Proceed with the reverse stitch button.	-

No.	Pattern	Application	Refer to page
032	₩	Bar tack	79
033	MEM	Bar tack (Memory) * Size of bartacking you have sewn once can be stored in memory.	79
034			-
035		Reinforced stitch	-
038	*		81
039	*		81
040	0	Eyelet	81
041	Q		81
042	0		81
043			-
044		Darning stitch	-
045			-
044	}	Attaching a quilt sleeve	105

5.2.2. Buttonhole



Select the pattern.

No.	Pattern	Application	Refer to page			
101		Standard buttonholes	89			
102		2-step buttonhole	96			
103		EACT 2-step buttonhole (Memory) * It is possible to store the size of buttonhole you have sewn once in memory.				
104		Standard buttonholes	89			
105		Standard Buttonnoies	89			
106	4::::])	Decorative	89			
107	¥		89			
108		Rounded end	89			
109	*		89			

No.	Pattern	Application	Refer to page
110			89
111		Keyhole buttonholes	89
112	:::::'%		89
113	₩ ۲		89
114			89
115	0	For knit	89
116	Ŵ		89
117	0		89
118			89
119		Decorative	89
120	Ī		89
121		Basting stitch for buttonholing	95
122	Θ	Button sewing	98

5.2.3. Appliqué

		115 ₁₂ 21 21	a Sintoni Luni K			×
ical			Appliqué			
	201	202		204	205 ГТТТТТТТ	
	26 11 11-	207 「TTTTTTT	208 208 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	209	210 11111111	
	211		213 } 0	214 T		

Select the pattern.

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern
201	•	209	=	217	Ŧ	225	$r^{1}r^{1}r^{1}$	233	<u> </u>
202	O 111111	210	Π	218	Ŧ	226	የየያ	234	* * *
203	•	211	Ē	219	Ŧ	227	و و و	235	<u>* * *</u>
204	ППП	212	E	220	₩	228		236	ದದ
205	гтт-	213	<u>/-/-/</u>	221	¥	229		237	ad D
206		214	hurdhurd	222	***	230	999	238	ХХ
207	רדד־	215		223		231	999	239	
208	רדד-	216	Ŧ	224		232	<u>\$</u> \$\$	240	

5.2.4. Tapering



Ν	0.	Pattern	No.	Pattern	No.	Pattern
30	01		303	\sim	305	ПП
3(02		304	\sim	306	רד-ד-

Select the pattern.

5.2.5. Quilt line

		ins _e Se				×
pliqué		ring	Quilt line			
	401	402	a www	ൂ ഡിഡിഗ	SUNNN S	
	46 LLLL	10000 E	رررررر ⁴	43 JOJO	410 00 00	
	411	412		414 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	415 KNON	

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern
401	\sum	406	JJ	411	8	416	围	421	2
402	SS	407	5	412	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	417	સુકરિ	422	\bigcirc
403	സ	408	<i>VV</i>	413	2	418			
404	സിഗ	409	D	414	SNSK	419			
405	SS	410	Q	415	R	420	ŧ		

Select the pattern.

6.2.6. Scallop



Pattern No. Pattern No. Pattern No. Pattern No. 501 504 507 510 **MININ** 502 505 508 511 503 506 509 512

Select the pattern.

5.2.7. One-point

 R line
 Scallop
 One-point
 Decorative
 VI

 601
 602
 603
 604
 605
 Image: Constructive
 VI

 606
 607
 608
 609
 610
 Image: Constructive
 Ima

Select the pattern.

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern
601		618		635		652		669	
602	瓴	619	20	636	5	653	(••	670	*
603	K	620	B	637	X	654	*•	671	
604	&	621	•	638		655		672	
605	R	622	\$ \$	639	Ø	656	Ì	673	+
606	Ø	623	•	640	B	657		674	2
607	Ŷ	624	$\Diamond \Diamond$	641	æ	658	€ *	675	•
608	*	625	*	642	F	659	Ł	676	₽
609		626	с р Ср Ср	643	\mathbf{D}	660	* *	677	
610	\$	627	*	644	A	661	Sewing	678	
611	XXX	628		645		662	Handmade	679	
612	6 0 60 60	629	X X	646	e ;	663	made by	680	
613	**	630	Ŷ	647	S	664	Happy	681	
614	**	631	*	648	R	665	Fandmade made by Happy collection Cuddly	682	
615	6060	632	R	649	••• ••	666	Cuddly	683	ு 2.5
616	***	633		650	**	667		684	∲⊃ 2.5
617	0	634		651	>	668			

5.2.8. Decorative

			×		No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern
llop One-p 701	702	Decorative Vint: 703 704 ++++++++++++++++++++++++++++++++++++	nge Fea	th	719	(V)	734	\$ \$	749	Ø	764		779	\otimes
706	707	708 709	710		720	×	735	XX	750	000	765	¢¢	780	$\hat{\ast}$
00000	0,0,0,0	<i>Cologo</i> La Radige	93-93		721	*	736	•)	751	S	766		781	*
711	712 2 2 0		715		722	* *	737	૾ૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢૢ	752	8	767		782	\geq
Select	the p	attern.		•	723	*	738	ap ap	753	أ	768		783	Š
	No.	Pattern	No.	Pattern	724	*	739	~0%) ~	754	\mathbb{N}	769	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	784	$\bigcirc \bigcirc$
	701	J.	710	Z	725	*	740	*∕	755		770	۳	785	\leq
	702	JF	711	ŶŶ	726	*≈	741	፝ ጞ	756	Ħ	771		786	$\left< \right.$
	703	$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	712	Ż	727	*	742	**	757	Ħ	772	\diamond		
	704	8 8	713	((((728	Ş	743	₭•	758	<_	773	e		
	705	*	714	Ŕ	729	K	744	AME.	759	Ê	774	&		
	706	66	715		730	\bigotimes	745	**	760		775	\sum		
	707	e e e	716		731	%%	746	لې ل	761	Σ	776	\bigotimes		
	708	o o o	717	Ś	732	مرولان	747	*	762	333	777	>		
	709	× ×	718	R	733	*	748	Fo	763	*	778	\Diamond		

5.2.9. Vintage

			an Sintoni Linita		×
point			Vintage		
	801	802 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	803	804	805
	806	807	808	809 X	810 ««««««««««««««««««««««««««««««»»»»»»»»
	811	812 XX	813 *** 0	*** 1	815

Select the pattern.

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern
801	×	809	××	817	888	825	$\qquad \qquad $	833	
802	×	810	ダ	818	$\overline{\mathbf{x}}$	826	FFF	834	4777
803	\bigotimes	811	***	819	¥⊀	827	Æ	835	
804	${\sim}$	812	***	820	y)))))	828	አ ^አ አአ	836	>
805	***	813	***	821	Ĭ.	829	₩	837	X
806	$\overset{\times}{\overset{\times}{\overset{\times}{\overset{\times}}}}$	814	***	822	क्रक	830	****		
807	_* ** _* **	815	***	823	₩₩	831	\neq		
808	××	816	XX	824	Ş	832	\bigcirc		

5.2.10. Feather / Lace

_				_		
						×
rtive		e Fe	ather / La	ce		
	901	902	903	904	905	
		~~~		~~~~		
	906 7 <b>1/1/1/1/</b>	907 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	908 <b>XOCHOOH</b>	909	910 <b>***</b>	
	911	912 000000000000000000000000000000000000	913 AAA	914 100000 1	915 D.D.D.D	

Pattern No. Pattern No. Pattern Pattern Pattern No. No. No. * * B 904 907 910 913 901 Ì **X** B 914 905 908 911 902 <u>WWW</u> 903 906 909 912 915

Select the pattern.

### 5.2.11. Letters

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14

C &





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あア漢 ねみ溅

# 5.3. Combination of patterns under the combination mode

۵

* 80

 $\mathcal{B}$ 

624

86 🕽 18

One

**

3

622

×

#### (1) Selecting and combining the patterns (letters)



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D E

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Α

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UV

Ζ

## (Example: JUKI♥)

Select the type of letter (font).

Press the icon and enter "JUKI".

Select [One-point].

Press the pattern (No. 618).



When you press , the combination of the patterns is saved and the swing screen is displayed.

#### (2) Selecting a space



Combine a pattern (letter) with another pattern (letter) while inserting one of the following patterns between them.



#### (3) Adding a pattern (letter)

A pattern (letter) can be added to the colored vertical line portion.

#### In the case of adding a pattern (letter) between the patterns



(Example: **JVI**)

Move the colored vertical line between "J" and "U" with  $\checkmark$  .

Press the pattern (No. 618).

#### In the case of prepending a pattern (letter) at the beginning of the patterns



#### (Example: **V**JUKIV)

Move the colored vertical line before "J" with <

Press the pattern (No. 618).

## (4) Deleting a pattern (letter)



# (Example: $\forall JUKI \forall \Rightarrow \forall JUKI$ )

Move the colored vertical line with to the right side of the pattern you want to delete.





<In the case of deleting the patterns collectively> When you select [Clear all] by pressing , all of the combined patterns can be deleted.

#### (5) Deleting/copying the combined patterns



# 5.4. Types of edit functions and how to use them

Types of editing functions that can be used differ with the pattern you have selected.

	Function	Refer to page
R	Thread tension	41
	Needle position	45
	Horizontal inversion	64
	Vertical inversion	64
Elongation ×1	Change in the elongation size	103

	Function	Refer to page
	Change in the angle and size of tapering	87
	Change of seam width of buttonhole	94
C ¹ / _T	Setting the interval between patterns	65
Reset settings	Reset settings	65
ŧ	Writing / capturing the pat- tern data	66

#### How to display the edit screen

#### Single mode **Combination mode** Sewing screen **Combination selection** Sewing screen Pattern selection screen screen Sewing Sewing ń Combination 604 C01 单 📘 \$ CO1 JUKL 1 wing OFF wing sta OFF G CAL One-point K <u>k</u>. K <u>k</u>. XF Ø Write <del>6</del>000 8000 ×× ** ** Presser foot lift OFF ad tei -2.5 ser foot lift OFF 87 ******~~~*} X * X × *** 20 <del>***</del> C05 2 6 read trimming OFF Sewing end OFF .... ad trimming OFF Sewing end OFF dle positio 3.5 ₩₩\$ 624 86 🕽 18 ۲ Zigzag width 7.0 Stitch length 11.2 ^{pressure} ^{pressure} 3.6 Create new data Select [Edit] by pressing Press 🔅 Press Press 🔅 :

# 5.4.1. Pattern inversion

# Horizontal inversion

Press when you want to sew a horizontally-inverted pattern. The horizontally inverted pattern is displayed.

#### Vertical inversion

Press when you want to sew a vertically-inverted pattern. The vertically inverted pattern is displayed.

* Horizontal inversion and vertical inversion are not applicable to some patterns.

**Combination mode** 

tion screen

From the pattern selec-

**6** :

12.2

* It is also possible to "vertically invert the horizontally-inverted pattern" or "horizontally invert the vertically-inverted pattern".



Single mode: Pattern is inverted. Combination mode: Combined patterns are inverted collectively.

#### **Combination mode**

From the combination selection screen



Combined patterns can be inverted on a pattern-by-pattern basis.

Select the pattern you want to edit with  $\triangleleft$   $\triangleright$  .

# 5.4.2. Setting the interval between patterns

#### **Combination mode**

# From the sewing screen



When you press  $\mathfrak{F}_{\overline{r}}$ , the interval between the patterns is decreased.

When you press 🙀 again, the pattern interval is restored to the standard setting.

For the standard setting, the lock stitch is set at the end of each patterns. So when some patterns are combined, a lock stitch is done at the between each patterns.

If the stitch interval is decreased, the lock stitch between patterns will be omitted.

# 5.4.3. Reset settings



When you press [Reset settings], all of the settings you have done on the edit screen are reset.

# 5.4.4. Writing / capturing the pattern data



Select the file you want to capture. Press [Capture].

Do not turn the power OFF while capturing (saving) is in progress .

When the backup data has been normally captured, the message "Turn OFF the power switch" is displayed.

Turn OFF the power to the sewing machine. Then, re-turn it ON.

#### In the case of [Write]

Enter an arbitrary file name and press [Write].



1

063A

TAMA00002B.MSP

Nolume Information

It is possible to capture or write the pattern information

Insert USB thumb drive 2 into USB slot 1.

# 6. Sewing

# 6.1. Straight stitch

No.	Pattern	Presser foot
001	<del>.</del>	Standard presser foot (A)





# Sewing start

Pull the needle and bobbin threads under the presser foot to the rear of the machine and lower the presser foot to start sewing.

#### Setting > Cancel safety Screen to set the functions while presser foot is up

It is possible to start sewing even if the presser foot is lifted. (Refer to page 113)

### Setting > Stitch speed Adjustable starting stitch speed

Sewing speed at the start of sewing can be changed. (Refer to page 112)



# $\bigstar$ When sewing the edge of thick fabrics

Turn the hand wheel and let the needle enter at the position of sewing start. Push the black button (2) by finger and lower the presser foot. Release the finger from the black button and start sewing. When the presser foot will be on the fabric completely, the black button will be disengaged automatically.



# When changing the sewing direction

- ① Stop the sewing machine when the position for changing the direction of sewing is reached.
- ② If the needle is not penetrated into the material at that position, press the needle up/down button to allow the needle to penetrate into the material. Then, lift the presser foot.
  - * The sewing machine has been factory-set at the time of shipment, so that the needle penetrates into the material when the sewing machine is stopped.
- ③ Change the direction of sewing with the needle penetrated into the material. Then, lower the presser foot and start sewing.

#### Setting > Stop position of needle Changing over the needle stop position

It is possible to change the stop position to which is the needle is brought when the sewing machine is stopped. (Refer to page 110)

### Setting > Pivot Presser foot pivot function

You can select the setting where the presser foot goes up with the needle held in the needle-down stop position when you stop the sewing machine. (Refer to page 110)







# Sewing end

Stop the sewing machine.

# ★ Thread trimming

#### <Using the thread trimming button>

Press the thread trimming button to trim the thread. Lift the presser foot and remove the material from the sewing machine.

#### Notes for thread trimming:

- 1. Do not use thread thicker than No.30.
- 2. After trimming, the stitch can be done without pulling up bobbin thread.
- 3. When sewing again after thread trimming, if you pull up the bobbin thread again and place it underneath the presser foot together with needle thread, you can avoid birds nest on the wrong side of the fabric.
- 4. Regularly clean the machine (refer to page 123), as dust in the area of the thread trimming unit may cause mal-function.

#### <Using the foot switch>

### Setting > Foot switch functions Foot switch functions

It is possible to set so as to trim the thread by pressing the foot switch. (Refer to page 113)

Press the foot switch to trim the thread.

#### <Using the thread cutter>

Lift the needle and lift the presser foot. In this state, it is possible to trim the thread with thread trimmer that is mounted on the face plate cover.



# Sewing > 🕒

#### Presser foot lift after trimming setting

It is possible to set so that the presser foot goes up automatically after thread trimming. (Refer to page 44)







## Reverse stitch

Use the reverse stitch button when you want carry out back tacking (reverse stitching) at the beginning and end of sewing.

#### Setting > Foot switch functions Foot switch functions

It is possible to set so as to carry out reverse stitching as long as the reverse stitch button is held pressed. (Refer to page 113)

#### <When start/stop button is used>

The sewing machine carries out reverse stitching as long as the reverse stitch button is held pressed, and stops the sewing when the reverse stitch button is released.

#### <When foot controller is used>

The sewing machine carries out reverse stitching as long as the reverse stitch button is held pressed, and sews the material in the forward direction when the reverse stitch button is released.

In the case of sewing one-point stitches or letters, the sewing machine stops after the completion of lock stitches.

#### Setting > Stitch speed Adjustable reverse stitch speed

Sewing speed of the reverse stitching can be changed. (Refer to page 112)

#### Sewing > Icons

# Setting the automatic back tacking, thread trimming and presser foot lifting

The back tacking at the beginning and end of sewing and the back tacking and thread trimming / presser foot lift after thread trimming at the end of sewing can be set. (Refer to page 44)





# Lock stitch

Use the lock stitch button when you want to carry out discreet back tacking (lock stitching) at the beginning and end of sewing.

## ★ Sewing start

Press the lock stitch button at the position you want to carry out lock stitching.

The sewing machine carries out lock stitching and stops.

#### Setting > Foot switch functions <u>Foot switch functions</u>

It is possible to set so as to carry out lock stitching by pressing the foot switch. (Refer to page 113)

# ★ Sewing end

#### <When start/stop button is used>

Push the lock stitch button at the end of sewing. The sewing machine sews lock stitches and stops.

#### <When foot controller is used>

Press the foot switch when the end of sewing is reached. The sewing machine sews lock stitches and stops.

* When you push the button while sewing one-point stitches or letters, the sewing machine sews until one cycle of the selected pattern is completed, sews lock stitches and stops. The start/stop button lights up in orange during the one cycle.

# Setting > Stitch speed Adjustable reverse stitch speed

Sewing speed of the reverse stitching and lock stitching can be set. (Refer to page 112)

#### Sewing > Icons Setting the automatic back tacking, thread trimming and presser foot lifting

The back tacking at the beginning and end of sewing and the back tacking and thread trimming / presser foot lift after thread trimming at the end of sewing can be set. (Refer to page 44)





ing and stops
### 6.2. Inserting zippers

No.	Pattern	Presser foot
001	•	Zipper presser foot (B)

A Leave the machine in Lock mode

* Make sure to use center needle position (Stitch pattern No. 001).





# Attach the zipper presser foot (B) to the machine.

When sewing the left side of the zipper, place the zipper under the right portion ① of the zipper presser foot.

When sewing the right side of the zipper, place the zipper under the left portion **2** of the foot.



2 Continue sewing until the top end of the slider is reached. Then, move the slider away from you, and continue sewing until the end of zippers is reached.

## 6.3. Patchwork piecing

No. F	Pattern	Presser foot
002	<b>P</b> 7	Standard presser foot (A)
003	<b>()</b> 1/4″	<b>A</b> Leave the machine in Lock mode

To sew pieces of cloth together is called piecing in patchwork.

In the case of piecing, set the seam allowance generally to 7 mm or 1.4 inches for sewing.



Cut the fabric with seam allowance.

# **2** Align the right end of the presser foot and the edge of the fabric and sew.

The needle will enter 7 mm (1/4") **1** from the edge of the fabric, so the seam allowance of 7 mm (1/4") can be sewn.

## 6.4. Overcasting stitch

No.	Pattern	
016		C
017	M	
018	<b>B</b> Lightweight material	

Presser for	oot

Overcasting presser foot (C)

#### 🛕 Leave the machine in Lock mode



This stitch is used to prevent the edge of fabric from fraying.

Push the fabric towards the guide and sew.

If the fabric and guide are apart, it will not make a nice stitch formation. Make sure to guide the fabric along the guide and sew slowly.

* Before sewing, make sure to check that the needle will not hit the presser foot.

## 6.5. Blind stitch

No.	Pattern	Presser foot
025		Blind stitch presser foot (D)
026	Lightweight material	A Leave the machine in Lock mode
027	Stretchy fabrics	

#### Folding fabrics



#### Sewing overcasting stitches on the edge of fabric.

(Refer to page 74 for overcasting stitches)

• Fabric (wrong side) 2 Finish line





# **2** Carry out basting $\boldsymbol{\Theta}$ by hand.

**4** 0.5 - 0.6 cm



Fold from basting line.

Leave 0.5 to 0.6 cm.



**4** Align guide **5** of the presser foot with folded edge 6 . Turn the handwheel and adjust the zigzag width with the zigzag width adjusting dial so that zigzag stitches reach the folded edge.

> * Pay attention so that needle will not hit the presser foot.



 $\mathbf{5}$  Position the folded edge against the guide **()** and sew.





**6** Turn over the fabric after sewing.

Fabric (right side)

When changing the needle entry point

#### **1. If the stitches reach too far beyond the folded edge**



(Turn the handwheel to check the needle entry point. When adjusting, make sure the needle is in the up position.)

#### 2. If the stitches fail to reach the folded edge



(Turn the handwheel to check the needle entry point. When adjusting, make sure the needle is in the up position.)

### 6.6. Shell tuck

No.	Pattern	Presser foot
028	$\sum$	Manual buttonhole presser foot (I)
029		A Leave the machine in Lock mode



**1** Fold the material in the bias direction.



 $\mathbf{2}$  Sew the material so that the needle enters the portion that is located on the right side of the top of the folds.



**3** The seashell-shaped tucking is produced.

# 6.7. Bartacking

Pattern	Presser foot
ቜ	Manual buttonhole presser foot (I)
	<b>A</b> Leave the machine in Lock mode

Bartacking is used to reinforce the part of the seam that is likely to ravel.

- * The length of the bartack is determined by pushing the reverse stitch button, but it will automatically make a u-turn when it reaches the maximum of 20 stitches.
- * If the presser foot cannot be parallel to throat plate, use filler fabric or cardboard.





# Pass the needle thread through the presser foot.

10 cm

**2** Place the fabric **2** under the presser foot.

0



#### Start sewing.

Push the start/stop button and the machine starts to sew straight stitches.

Starting point

# When it comes to the turning point ④ push the reverse stitch button.

The machine goes back to the starting point by sewing straight stitches and then it sews zigzag stitches to the point where the reverse stitch button is pushed.

When the machine comes to the sewing end point, push the reverse stitch button.

The machine sews lock stitches **(5)** and stops.

* The case of bartacking (memory)

Since the length of a bartack that is sewn for the first time is stored in memory, step of procedure **4** is not required for bartacking for the 2nd time and beyond.

If you want to change the bartack length stored in memory, any other pattern should be selected.

# 6.8. Eyelet

No.	Pattern	No.	Pattern	Presser foot
036		039	ð	Manual buttonhole presser foot (I)
037	柒	040	$\bigcirc$	A Leave the machine in Lock mode
038	0	L	<u>.</u>	



# Sew an eyelet.

1

The sewing machine automatically performs lock stitching at the end of sewing and stops.



# **2** Open a hole with an eyelet punch or a pair of scissors.

This hole can be used for passing a string or ribbon or as a flower hole.

#### 6.9. Decorative stitches

No.	Presser foot	<b>A</b> Leave the machine in
201~240, 301~306, 401~422,	Manual buttonhole	Lock mode
501~512, 601~684, 701~786, 801~837, 901~915, Letters, etc.	presser foot (I)	

* Refer to "12. List of stitch patterns" for the types of patterns.

#### Preparation before sewing



Use an iron to attach a fusible interlining to the wrong side of fabric.

* If stitch length is excessively short, the bobbin thread may appear on the right side of material or may cause stitch gathering.

Be sure to adjust the darning and carry out trial stitching.

#### Setting > Darning adjustment Darning adjustment

Try trial sewing, adjust while checking the pattern. (Refer to page 109)



#### Pass down the needle thread through the presser foot hole and draw it sideways. Place the fabric underneath the presser foot and start.

The machine will stop automatically when sewing is finished.

- * Note that the sewing speed varies according to stitch patterns (letters) to be sewn.
- * If the automatic thread trimmer is used while sewing, the machine starts to sew from the beginning.
- * In case of condensed sewing, if the stitch length is too small, the stitches may get stuck.

#### Disposing thread ends of jump stitches



Get rid of unnecessary thread on the front side of fabric by scissors.

#### How to stitch a pattern (letters)

### 6.10. Lace / feather / overlapping and tiling (blackwork) patterns

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern
901		904		909		913	R
902	3	906	TANT	910	*	914	R
903		907	XXXXXX	911		915	en en
904	3	908	ĬØ. ₩	912	R		

#### Presser foot

Manual buttonhole presser foot (I)

#### Leave the machine in Lock mode

Lace- / feather-like patterns can be produced by sewing patterns in parallel. In addition to the above, other patterns such as decorative patterns can be sewn with overlapped or tiled a wider variety of patterns.

#### How to sew a combination of patterns



Caution: In the case of tile stitching, patterns may be slightly misaligned depending on the patterns to be combined, material, thread and type of stitching to be used.



### 6.11. Scallop stitches

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	Presser foot
501	>	504	)	507		510		Manual buttonhole presser foot (I)
502	)	505		508	>	511	2	▲ Leave the machine in Lock mode
503		506	LAND IN THE REAL PROPERTY OF THE REAL PROPERTY	509	>	512		

1

This stitch is used for decorating edging on items such as table cloths, collars on blouse, etc.

To keep the pattern intact, leave some margin and sew on the edge of the cloth.



**2** Cut the sewn fabric carefully so that stitches are not cut by the scissors.

#### Elongation

The length of the patterns can be adjusted. (Other than the pattern No. 501) (Refer to page 103)

### 6.12. Random pattern

No.	Pattern	No.	Pattern	No.	Pattern	No.	Pattern	Presser foot
206		217	Ŧ	225		233	\$ \$ \$	Manual buttonhole presser foot (I)
208	ГТТ	219	Ŧ	227	<del>ر</del> ه ه	235	× * * *	Leave the machine in Lock mode
210	ㅋ	221	¥	229		237	n n n n n n n n n n n n n n n n n n n	
212	F	223	لاسترار	231	<b>0</b> 0			

Example)



When sewing random stitch patterns, the zigzag width automatically changes by section. This means that the finished patterns provide a sense of fun.

## 6.13. Tapering

No.	Pattern	No.	Pattern	No.	Pattern	Presser foot
301		303	$\sim$	305	ПП	Manual buttonhole presser foot (I)
302		304	×	306	T T T	<b>A</b> Leave the machine in Lock mode

For a tapering stitch pattern, the zigzag width can be set so that it is gradually increased at the start of sewing and is gradually decreased at the end of sewing. Use the tapering stitch pattern for mitering, etc.

Example of use) Angle of joining part of tapering stitches can be set. Mitering Patten length can be set. Patten set. Appliqué of a leaf There are twelve (12) types of shapes of end portions of tapering stitches.



#### Setting the size of tapering stitch pattern



Tapering angles **1** and **2** and tapering length **3** can be set according to the pattern you want to sew.



#### Û





Place [Tapering, top] in ON.

Select the angle and shape of the tapering stitch part.



0



Place [Tapering, bottom] in ON.

Select the angle and shape of the tapering stitch part.

#### How to sew the pattern

Start the sewing machine to sew the pattern.

The zigzag width gradually increases.

3 The sewing machine sews the pattern by the set length.

Provide the end of sewing. The sewing machine performs lock stitching at the end of sewing at the end of sewing and automatically stops.



Set the length of the tapering stitch pattern by turning the adjusting dial.

#### Manual stitching

A

9

Set angles 1 and 2.

Start the sewing machine to sew the pattern.

The zigzag width gradually increases.

When the set zigzag width is reached, the sewing machine continues sewing keeping that zigzag width.

Press the lock stitch button when the part you want to start 2 is reached.

The zigzag width is gradually decreased according to the set angle. Then, the sewing machine performs lock stitching at the end of sewing and automatically stops.



#### Storing the length of the tapering stitch pattern in memory

After you have completed sewing, the length of seam you have just sewn can be checked by setting [Tapering length] to ON. If you re-start sewing from that state, you can sew tapering stitches by the same seam length in repetition.

#### History

In the state that [Tapering length] is place in ON, the tapering length is also stored in memory to allow the data to be called up with the history tab. The setting that has been used for sewing the pattern immediately before changing the pattern is stored in memory under the history tab. If you want to store two or more settings for one pattern, it is necessary to store the settings one after another by changing the pattern each time.

## 6.14. Buttonhole stitches

- * The buttonhole length is automatically determined only by placing a button on the buttonhole presser foot.
- * The machine can sew buttonholes for buttons with diameters of 0.7 3.2 cm.
- * In case of stretchy fabrics, use non-elastic interlining on the wrong side of the fabric.
- * Make sure to perform test sewing to see that the machine sews buttonholes correctly.
- * Buttonhole Nos. 114 117 are for knit fabrics and should be used with a knit needle.

No.	Pattern		Application
101			Buttonhole for medium to heavy weight materials Standard buttonhole
102	(1''''')	Standa	Manual 2-step buttonhole Use this buttonhole, when there is an overlapped section in the fabric or when you want to sew larger buttonhole than 3.2 cm diameter. (Refer to page 96)
103		Standard buttonhole	Manual 2-step buttonhole (Memory) * It is possible to store the size of buttonhole you have sewn once in memory.
104		v	Buttonhole for heavy weight materials Stitch density is coarse. This pattern is used for coats, etc.
105			Sews buttonhole double
106	Î	Decorative	Decorative buttonholes
107	*****	Ro	
108	۲ ۲	Rounded end	Buttonholes for women's blouses and children's clothes. Also for light weight materials
109	*	nd	

Presser foot

Buttonhole presser foot (E)

# Leave the machine in Lock mode

No.	Pattern		Application
110	Щ. Ж		Keyhole buttonhole for heavy weight materials such as suits, jackets, coats, etc.
111		Keyhole	Round keyhole
112		ole	Large and thick keyholes for heavy weight materials
113	Î		For sewing buttons on the front plackets of pants, etc.
114			Buttonhole for light weight knit (also used as decorative button- hole)
115	0	For knit	Buttonhole for medium weight knit (also used as decorative buttonhole)
116	Ŵ	nit	Buttonhole for light weight knit Sews buttonhole double
117	0		Buttonhole for medium weight knit Sews double buttonhole
118			
119		ecorative	Decorative buttonholes Decorative buttonhole which look like hand-sewn
120	₫	Ø	
121		Basting stitch for buttonholing (Refer to page 95)	



# 

#### Set the presser foot.

Lift the needle and lift the presser foot.

Align the groove ① of the presser foot holder with the ② of the presser foot and lower the presser foot holder to set.

# **2** Set the button.

Pull the button holder ③ toward ④, place the button on the button holder, and then push the holder toward ⑤ to set the buttonhole length.

* Check the following points after setting the presser foot and then start to sew buttonholes.





If there is not a clearance, the machine will not sew neat stitches.



#### Set the buttonhole sensor pin 4 .

Insert the sensor pin into the sensor pin hole at the face plate cover.

- * Insert the pin into the hole completely.
- * If the machine starts to sew without inserting the pin into the hole, the following message will be shown on the display.



Set the sensor pin and restart.



# **4** Place the fabric under the presser foot.

Raise the presser foot, pass the needle thread through the hole on the presser foot ③ and pull it out sideways.

Place the fabric under the presser foot, align the marking with the sewing-start point ③ . Penetrate the needle into the fabric by turning the hand wheel and lower the presser foot.



# 5 Start sewing. @

The machine will stop automatically after sewing the buttonhole.

- If a buttonhole of the same size will be sewn again, push the thread trimming button to trim the threads and raise the presser foot. Under this condition move to another point, lower the presser foot and then start sewing.
- * Do not change stitch length and/or zigzag width during buttonholing. Otherwise this will cause imbalanced stitches.
- * If thread trimming button is pushed while sewing buttonhole, the machine will stop and will not complete the buttonhole.
- * Depending on material to be sewn and weaving direction of the material, there might be a slight difference in zigzag widths between right and left lines of buttonholes. Test sewing is recommended.



**6** Unplug the sensor pin **4** after sewing.



# ${f 7}$ Opening the buttonhole using a ripper ${f 0}$ .

#### [Double bartack]

Pierce a stopper pin (3) at the bartack and open the buttonhole with a ripper (7). Be careful not to cut the stitches.

#### [Keyhole buttonhole]

Place a cardboard under the buttonhole and make a hole with the eyelet punch (). Then pierce a stopper pin at the bartack and open the buttonhole with a ripper.

# Buttonhole clamping plate



#### Leave the machine in Lock mode

It will be easier to sew buttonholes on the thin fabrics and/or near the overlapped sections, if the clamping plate is used.

- 1. Attach the buttonhole presser foot to the presser foot holder, with the clamping plate **(D** together.
- 2. Place the fabric between the presser foot and the clamping plate.

* You can remove the clamping plate by holding **B**.

#### When changing the width of the buttonhole

Turn the adjusting dial.

The setting of the buttonhole width and stitch length will be cancelled when the power is shut down or another pattern is selected.



#### When changing the density of the seam

Turn the adjusting dial.



#### Change of seam width of buttonhole

* The knife width is reset when you turn the power OFF.

The seam width of buttonhole is changeable.









Standard Large

s Small

* Initial value has been factory-set to "Standard".





Invert the pattern. Then, press

The knife width can be changed in three steps by pressing the icon.



#### Buttonhole with gimp

No.	Pattern	Presser foot
101		Buttonhole presser foot (E)

Leave the machine in Lock mode

Buttonholes with gimp thread prevent the buttonholes from stretching and can make them more secure. * A buttonhole with gimp thread should be sewn using the double bartack pattern (Pattern No. 101)



#### Basting stitch for buttonholing



This stitch is used as basting for Pattern No. 101 Buttonholing. It is also applicable to welt-buttonholing.

### 6.15. Manual 2-step buttonhole



* Refer to page 93 when you want to change the zigzag width and stitch length of a buttonhole.

Set the manual buttonhole presser foot (I).

**2** Pass the needle thread through the hole of the presser foot **1** and pull it out sideways together.

Bring down the needle on the sewing start point **2** and lower the presser foot.



* At this time, if the start/stop button is pushed, the machine will stop sewing. And if the start/stop button is pushed again, then the machine will continue to sew the left side of the buttonhole.

Push the reverse stitch button **(4)** when it reaches the necessary length **(3)** of the left side of the buttonhole. Sew bartack and the right side of the buttonhole, then the machine sews

bartack and right side of the buttonhole.



No. 103 In the case of 2-step buttonhole (Memory)

Since the length of a buttonhole that is sewn for the first time is stored in memory, step of procedure

**4** is not required for buttonhole for the 2nd time and beyond.

If you want to change the buttonhole length stored in memory, any other pattern should be selected.

#### 6.16. Sewing buttons

No.	Pattern	Presser foot	
122	Θ	Manual buttonhole presser foot (I)	

Leave the machine in Lock mode

* Do not use the automatic thread trimming function when sewing buttons.



#### Lower the feed dog by pressing the feed dog UP / DOWN / LOCK MODE button.

Lamp lights up: The feed dog is at its lower position Lamp goes out: The feed dog is at its upper position.





 $\mathbf{2}$  Place a button under the presser foot and adjust the zigzag width according to the distance between holes in button.

Make sure that needle enters holes in button, by turning hand wheel manually.

#### Carry out sewing while turning the handwheel by hand. If you pull the material, the button could be moved

from the correct position causing needle breakage. Buttons can be sewn without fail by using the separately-available button sewing presser foot (refer to page 129).



 ${f 5}$  Trim needle and bobbin threads by about 10cm (4 inches) long after sewing. Make a knot to secure the stitches.





## 6.17. Quilting (free motion)

No.	Pattern	Presser foot
001		Quilt presser foot (for the ruler) (Q)

* Be sure to sew straight stitch pattern (center stitch base).

In the case of performing free-motion stitching using a zigzag pattern, the separately-available quilt presser foot (zigzag type) and presser foot joint are necessary.







It is called free motion quilting when moving the fabrics freely towards any directions without using the feed dog of sewing machine.

Free curve seams, etc. can be produced with the feed dog lowered (drop feed) regardless of the direction of sewing (i.e., 360 degrees) by moving the material by hand.

Put top layer of fabric with patchwork and/ or appliqué, quilting cotton and bottom fabric together by using pin or basting stitches.

#### Assemble the quilt presser foot.

Raise the presser bar. Loosen the setscrew for presser foot holder and remove the presser foot holder ①. (Refer to page 25)

Set the quilting foot and tighten the setscrew **2** for presser foot.

# Lower the feed dog by pressing the feed dog UP / DOWN / LOCK MODE button.

Lamp lights up: The feed dog is at its lower position Lamp goes out: The feed dog is at its upper position.

Place the fabric underneath the presser foot and lower the presser foot.

# Adjust the presser foot height according to the material thickness.

- Height of the presser foot can be changed with the presser foot screw.
- It is also possible to adjust the presser foot height using the micro-lifter height setting function. (Refer to page 43)

The material can be moved smoothly with no resistance by adjusting the presser foot height to about 1 mm ③ above the material.

* The sewing machine is capable of sewing beautifully even multi-layered sections of material by decreasing the presser foot pressure.



Use both hands to hold the fabrics and move it without letting it loose. The target stitch length is about 1.5 to 2.0 mm.



When you have completed sewing of freemotion quilting, press the feed dog UP / DOWN / LOCK MODE button to lower the feed dog.

The feed dog will be up and engaged at the same time as the machine starts to sew.

* The quilt ruler is also applicable.

#### Tips

#### How to lock stitches

- At sewing start, pull up the bobbin thread on the top layer of the fabric, hold both needle and bobbin threads together and sew 3 stitches on the same point. After that move fabrics as you wish. In this way, stitches on the wrong side of the fabrics look neat.
- At sewing-end sew 3 stitches on the same point and stop.

#### • How to sew stitches with the same stitch length

- When the foot controller is used, the fabrics can be guided by both hands and you can move the fabrics freely.
- Set the speed controller to medium or medium low first, press the foot controller completely and move the fabrics.
  - $\rightarrow$  if stitches become too large, set the speed controller to "faster"
  - $\rightarrow$  if stitches become too small, set the speed controller to "slower".

## 6.18. Hand look quilt stitches

No.	Pattern	Presser foot
418		Manual buttonhole presser foot (I)





Handsewn look seams can be sewn by using a transparent thread as the needle thread.

Needle thread

Bobbin thread

## 6.19. Quilting (quilt guide)



Insert the quilt guide 😢 into the groove of the presser foot holder 🕕 .

# **2** Sew while tracing the stitches with the tip of the quilt guide.

Distance between sewing lines can be adjusted freely.

### 6.20. Elongation

No.	Pattern	No.	Pattern	No.	Pattern	
502	)	510		680		
503		677		681		1
508	>	678		682		
509	>	679		835		



The pattern length can be changed without changing the stitch density of a pattern.

Setting range: "×1" - "×5" * Initial value has been factory-set to "×1".

Single mode



Invert the pattern. Then, press (3).



Set the elongation size by turning the adjusting dial.

#### **Combination mode**







Set the elongation size by turning the adjusting dial.

## 6.21. Stitch in ditch quilting

No.	Pattern	Presser foot
001	<b>e</b>	Edge Sewing presser foot (R)



This is for quilting the edge of patchworks and appliqués. The machine will sew the lower (thinner) side of the fabric layers. As a result, the stitches will not be noticeable and have an effect to make the design look three dimensional or emphasized.



Put the top layer of fabric with patchwork and/or appliqués, quilting cotton and bottom layer of fabric together by pin or basting stitches.

# **2** Put the guide of the presser foot along with the crease and sew.

The needle enters behind the guide, so that the edge of the crease can be sewn.

If the desired points can not be sewn, adjust the needle position. (Refer to page 45)



#### Curved concealed quilting

Use manual buttonhole presser foot (I) or the open toe presser foot (O). Sew curves by lifting the presser foot and changing the direction very often.

Also this can be done by free motion with the quilt presser foot. (Refer to page 99)

#### 6.22. Attaching a quilt sleeve

How to make a quilt sleeve

No.	Pattern	Presser foot	A Leave the machine in		
044	}	Edge Sewing presser foot (R)	Lock mode		

This stitch type is narrow blind stitch for attaching a sleeve (material to be sewn on the back of quilted tapestry for passing a rod) to the quilt.

The narrow blind stitches are not likely to be visible from the top surface of the quilted fabric.



105

#### Attach the quilt sleeve to the quilted fabric



# 7. Operation of the operation panel

## 7.1. Support

Main usage of the sewing machine can be checked. Select the item you want to check.

9	Operation of the main body V	Operation of the operation panel	
	Support Setting Sewin	Support Setting Sewin	Support Setting
-	Operation of the main body 🗸 🗸	Operation of the operation panel 🗸	History
	Installing the wide table	Basic operation for sewing 🗸 🗸	Selecting the history
	Installing the knee lifting lever	Selection of patterns for the single stitching mode	Editing the history
	Changing the position of the foot switch	Thread tension adjustment	USB media (USB thumb drive)
	Speed control	Back tacking	Writing / capturing the pattern data
	Low-speed inching	Thread trimming	Writing / capturing the backup data
	Presser foot lift	Presser foot lift	Common setting
	Lock mode	Setting JUKI Smart Feed	Setting the darning
	Preparation for winding of bobbin thread	Changing the baseline	Stop position of needle
	Setting the bobbin	Setting the presser foot pressure and the micro-lifter	Pivot
	Needle thread preparation - Threading the machine head	Setting the zigzag width	Sound volume
	Threading the needle	Setting the stitch length	Brightness
	Changing the needle	Setting the repetition stitching	Stitch speed
	Table of correspondence among fabric, thread and needle	Editing the sewing patterns	Presser foot lifting height
	Changing the presser foot	Editing the patterns - Horizontal inversion	Cancel safety
	Setting and releasing of JUKI Smart Feed	Editing the patterns - Vertical inversion	Foot switch functions
	How to lower the feed dog	Setting the elongation size	Twin needle setting
	Changing the throat plate and feed dog	Adjusting the knife width for buttonholing	Wireless LAN
	Twin needle sewing	Setting the tapering	Factory data reset
	Maintenance	Individual horizontal and vertical inversion 🗸 🗸	Software version
		Selecting the patterns for combination stitching	Machine log
		Editing the patterns for combination stitching	Language setting
		Pattern-by-pattern horizontal/vertical inversion of patterns	Accessibility
		Combination pattern stitching	Shutdown
		Pattern-by-pattern elongation size setting	Software update
		Pattern-by-pattern thread tension setting	
		Pattern-by-pattern baseline setting	
## 7.2. Setting

Functions (17 kinds) cab be set/changed.

		Application	Default setting
$\bigcirc$	∭ Darning adjustment	Adjust the shape of stitch pattern.	0
2	Stop position of needle	It is possible to set the position of the needle (upper or lower position) at the time of stopping the sewing machine.	Lower stop
3	Ut Pivot	It is possible to set so that the presser foot automatically goes up when the sewing machine stops with its needle down.	OFF
4	Sound volume	Volume of the sound that is produced when the sewing machine is started up or when the icon on the operation panel is pressed can be changed.	-
5	- Brightness	Brightness of the operation panel or sewing area can be adjusted.	-
6	Stitch speed	Sewing speed at the start of sewing and reverse stitching can be set.	Low speed
$\overline{\mathcal{I}}$	Presser foot lifting height	The machine can be set to the presser foot lifting amount.	6mm
8	Cancel safety	The sewing machine can be set to allow operation even when the presser foot is lifted.	-
9	<b></b> Foot switch functions	Function can be selected for foot switch.	Reverse stitch
10	Two needles	The sewing machine can be set to perform twin-needle stitching.	OFF
	穼 Wireless LAN	It is possible to connect the sewing machine to the wireless LAN.	-
(12)	Factory data reset	Sewing machine data can be initialized.	-
(13)	C Software version	Software version can be checked. *It is also possible to update the software.	-
(14)	Machine log	Sewing machine log can be checked. *Writing and capturing of the backup data can also be carried out.	-
(15)	Language	The language used for displaying messages, etc. can be changed.	(Depending on destination)
16	Accessibility	The color of the screen can be changed.	OFF
$\bigcirc$	U Shutdown	It is possible to turn the power OFF with the data protected.	-

## ① Darning adjustment

Adjust the shape of stitch pattern.

Adjustable range: -20 - 20

Check the longitudinal balance of feed when you want to sew a pattern beautifully, or having changed the material, thread or interlining.

This adjustment value reflects all patterns.



Select [Darning adjustment] from [Setting].

Try trial sewing, adjust while checking the pattern. Adjust the darning by sliding the slide bar to the right and left.



When you tap the portion outside the setting screen, the screen returns to the common setting screen.



## ② Stop position of needle

It is possible to set the position of the needle (upper or lower position) at the time of stopping the sewing machine.



Select [Stop position of needle] from [Setting].

Select the "Lower stop position" or the "Upper stop position".

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

### 3 Pivot

It is possible to set so that the presser foot automatically goes up when the sewing machine stops with its needle down.



Select [Pivot] from [Setting].

Setting the ON / OFF of the pivot function



• Setting the pivot height

Set the pivot height by sliding the slide bar to the right or left.



When you tap the portion outside the setting screen, the screen returns to the common setting screen.

### ④ Sound volume

Volume of the sound that is produced when the sewing machine is started up or when the icon on the operation panel is pressed can be changed.



Select [Sound volume] from [Setting].

Adjust the sound volume by sliding the slide bar to the right or left.



When you tap the portion outside the setting screen, the screen returns to the common setting screen.

## **5** Brightness

Brightness of the operation panel or sewing area can be adjusted.



Select [Brightness] from [Setting].

Adjust the brightness by sliding the slide bar to the right or left.



When you tap the portion outside the setting screen, the screen returns to the common setting screen.

If you leave the operation panel without operating it continuously for three minutes, the operation panel screen will become dark.

The screen will resume its brightness by tapping the screen.

## **(6)** Stitch speed

Sewing speed at the start of sewing and reverse stitching can be set.

* Initial value has been factory-set to "Low speed".



Select [Stitch speed] from [Setting].

Set the sewing speed at the start of sewing and that of the reverse stitching.

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

## ⑦ Presser foot lifting height

The machine can be set to the presser foot lifting amount.

* Initial value has been factory-set to "6mm".



Select [Presser foot lifting height] from [Setting].

Select the presser foot lifting height from three different heights; "6 mm", "8 mm" and "10 mm".

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

## **8** Cancel safety

The sewing machine can be set to allow operation even when the presser foot is lifted.

	Support	Setting	Sewing	Histor		Suppor	t Setting	Sewing	Hist
X	Cancel safe	ty			M				
_	Foot switch	functions			Ų	Can	cel safety		
					ы. 1		Start button		
• •	Two needle	s			Ļ		Foot-controlle		
Ś	Wireless LA	N					Reverse stitch	button	
177 8 (1 <u>8 11 -</u> 187 - State							Lock stitch bu	tton	
£	Factory dat	a reset		an San San San San San San San San San S	<b></b>		Needle up/do	wn button	
୯	Software ve	ersion			¥		Thread trimm	ing button	
₽	Machine lo	9			Π				
	Language				×	Cance	l safety		



Added care should be taken to check the sewing machine operation when cancelling the safety function.

Select [Cancel safety] from [Setting].

Put a checkmark to the item safety function for which you want to cancel. Then, the safety function for the item is cancelled to allow you to operate the sewing machine even when the presser foot is lifted.

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

### **9** Foot switch functions

Function can be selected for foot switch.

* Initial value has been factory-set to "Reverse stitch".



Select [Foot switch functions] from [Setting].

Select the operation to which you want to assign the foot switch function.

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

* If the foot switch function is set to "reverse stitch" or "lock stitch" while automatic back tacking, thread trimming and presser foot lifting have been set, it is possible to carry out back tacking, thread trimming and presser foot lifting at the end of sewing.

## 10 Two needles

The sewing machine can be set to perform twin-needle stitching.



When you want to change the needle or the presser foot, be sure to turn the power OFF or place the sewing machine under the lock mode in advance.

Caution: When carrying out the twin needle stitching, it is necessary to set the twin needle before selecting a pattern.

0	01	004	005	006	007	008	009	010	012	014	030
		     		ţ	¥	٤	Ĩ	٢	$\lesssim$	$\geq$	
0	)31	201	502	503	508	509	510	677	835	836	
C	ž		)	)	$\rangle$	>	$\rangle$		ł	•	

Standard presser foot (A) Manual buttonhole presser foot (I)

Example)

Decorative sewing patterns can be sewn beautifully using the twin needle.

When you select the twin needle setting, the stitch width setting is limited to 5 mm at the maximum.



**1** Change the needle to the twin needle.

Make sure to use a twin needle with size of 2.0 mm. * The twin needle is separately available.





**2** Place the supplementary spool pin.

# 3 Thread to the thread guide first. After that, thread paths are same up from toc.

* When twin needle sewing, make sure to use thread size smaller than No. 60.

### **4** Do not thread **()** for right-hand needle.

## **5** Thread to right-hand and left-hand needles separately.

- * Automatic needle threader can not be used. Thread each needle manually.
- * Automatic thread trimmer can not be used in case of twin needle sewing.



## 6 Setting the twin needle.

Select [Two needles] from [Setting].

Select [ON] and press [Set].

The setting is confirmed by pressing [Erase].

### **7** Select a pattern.

When you set the sewing machine to the twin-needle stitching, patterns that can be sewn with two needle are displayed.

### **(1)** Wireless LAN

It is possible to connect the sewing machine to the wireless LAN.



Select [Wireless LAN] from [Setting].

Wireless LAN setting



When you set the wireless LAN to "ON", available connection destination addresses of the wireless LAN are displayed.

Select the wireless LAN connection destination address to which you want to connect the sewing machine.

When you press the " $\checkmark$ " shown at the upper left of the screen, the setting is confirmed and the screen returns to the previous screen.

### 12 Factory data reset

Sewing machine data can be initialized.



Select [Factory data reset] from [Setting].

If you do not want to delete the pattern data, place a checkmark ( $\checkmark$ ) in the box.

The data is initialized by pressing [Factory data reset].

If you press [Cancel], the initialization will be cancelled.

#### **13** Software version

Software version can be checked. *It is also possible to update the software.



Select [Software version] from [Setting].

The software version is displayed.

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

When you want to update the software, press [Software update].

#### Updating the software

Contact your distributor if you have any question about the software.



Do not turn the power OFF while updating of the software is in progress.

#### < In the case of using a USB thumb drive >

#### Precaution to be observed in saving data on the USB thumb drive

- * Save the software you have downloaded in the storage space directly under the USB thumb drive as it is. One folder that is named [prog] and one zip file that is named [HZLUX8_PANEL_*******.zip] are saved.
- * If any previous version of software remains on the USB thumb drive, it must be deleted before saving the newly downloaded software.
- * The USB thumb drive must have a storage capacity of 1 GB or more.

Software updating (USB)



Software update

🗘 USB

Wireless LAN

Insert USB thumb drive 2 into USB slot 1.

Select [USB].

Press [Start the updating].



#### < In the case of using the wireless LAN >



Select [Wireless LAN].

The software version is checked.

Press [Download].

When you press [Start the updating] on the next screen, updating of the software starts.

* Longer time will be required to download the software depending on your communication environment.

> Do not turn the power OFF while updating of the software is in progress.

When the software has been normally updated, the message [Software updating is completed] is displayed.

Turn OFF the power to the sewing machine. Then, re-

#### Capturing the backup data

The settings you have made are held even after updating of the software. However, if the settings are accidentally initialized, the settings can be restored by capturing the backup data. Refer to the next page for writing and capturing of the backup data.

## (14) Machine log

Sewing machine log can be checked.

* Writing and capturing of the backup data can also be carried out.



Writing the backup data



Select [Machine log] from [Setting].

The sewing machine log is displayed.

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

Insert USB thumb drive 2 into USB slot 1.

Press [Write backup data].

Enter an arbitrary file name and press [Write].

- * The initial value of the file name is the serial number of your product.
- * Since this equipment is not provided with a clock function, the uploading date and time of the file you have saved may differ.

#### Capturing the backup data



Insert USB thumb drive 2 into USB slot 1.

Press [Capture backup data].

Select the file you want to capture. Press [Capture].

Do not turn the power OFF while capturing (saving) is in progress .

When the backup data has been normally captured, the message "Turn OFF the power switch" is displayed.

Turn OFF the power to the sewing machine. Then, return it ON.

## 15 Language

The language used for displaying messages, etc. can be changed.

* Default setting is depending on destination.



Select [Language] from [Setting].

Select the language you want to use for display.

When you tap the portion outside the setting screen, the screen returns to the common setting screen.

### (6) Accessibility (Black-and-white inversion of display)

The color of the screen can be changed.



Select [Accessibility] from [Setting].

• Setting the user accessibility



When you tap the portion outside the setting screen, the screen returns to the common setting screen.

### 17 Shutdown

It is possible to turn the power OFF with the data protected.



Select [Shutdown] from [Setting].

When the message "Turn OFF the power switch" is displayed on the screen, turn OFF the power switch.

## 7.3. Sewing

Refer to "5. Setting for the pattern sewing" for details.

## 7.4. History



Patterns you have sewn and settings you have made are kept in history. (Maximum number of items kept in history: 10)

* After you have sewn a pattern once, the pattern is displayed in [History] when you select a different pattern.

If you want to sew the pattern with the same settings again, select the pattern from [History].

Since the set values are also kept in history, the pattern you have sewn before and its set values can be reproduced.

The setting that is changed from the initial setting is displayed in blue on the sewing screen.



When you select pattern on the history screen, the pattern is selected and the sewing screen is displayed.

When you press :, the menu is displayed.

Deletion of the history and writing of data in a USB thumb drive can be carried out using the menu.

## 7.5. JUKI Sewing Net



In the case the sewing machine is connected to the wireless LAN, JUKI website will be displayed.

## 8. Message catalog

* The message is erased by carrying out the relevant operation indicated by the message or pressing the button on the screen.

Adjust initial position   Adjust initial position Freeso K to adjust the initial position of needle DK	Insert the sensor pin		
When the sewing machine starts up, or when the nee- dle moves. The needle is moved by pressing [OK]. Then, the initial screen is displayed.	When one of the buttonhole stitches is selected and the buttonhole sensor pin is not connected, the machine starts to sew.	When a stitch pattern other than buttonholes is selected but the buttonhole sensor pin is connected, the ma- chine starts to sew.	This pictograph is displayed when the safety device is activated while the presser foot goes up.
Return the Smart Feed to its original position	E Change the bobbin thread Bobbin thread amount has decreased Accept	Operate with the foot controller Start/stop button cannot be used when the sewing machine is provided with the foot controller	Check the presser foot Change the presser foot to the standard stitch set. Accept
This pictograph is displayed when "JUKI Smart Feed" detection sensor detects while the pattern which cannot be sewn with "JUKI Smart Feed".	When the bobbin thread amount has reduced. The sewing can be contin- ued 30 stitches in this state.	When you have tried to start the sewing machine by pressing the start/stop but- ton while the foot controller is connected to the sewing machine.	When changing from the stitch type from the 1-nee- dle straight stitch to the standard stitch.

Check the presser foot Change the presser foot to the 1-needle straight presser foot. Accept	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Image: Constraint of the system           Delete previously selected patterns           Detected straight throat plate and feed dog.           Detected straight the original throat plate and feed dog.	Support     Setting     Sowing     Histor       Image: Sound volume     Image: Sound volume     Image: Sound volume       Image: Delete previously selected patterns     Image: Sound volume       Image: Change setting: Change sett
type from the standard t stitch to the 1-needle t straight stitch.	In the case the straight throat plate is installed though the stitch type is set to the twin-needle stitch with the standard throat plate.	In the case the straight throat plate is installed though the stitch type is set to the 1-needle stitch with the standard throat plate.	When changing the twin needle setting.
	Support     Setting     Seving     Histor       Image: The set of	Conbination CDD       Practical         C01       C02       C01         C02       C02       C01         C03       Delete the data.       III         C04       C05       C04         C05       C04       IIII         C06       C04       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Contribution







## 9. Machine Maintenance

When lint and/or dirt has built up, it may cause machine failures. Therefore, clean the machine frequently.



## 10. Introduction of optional accessory parts

Make your home sewing more pleasant!

Please purchase the following items in the shop where you buy our products.

#### Button attaching presser foot

This presser foot is used to attach buttons on garments.

#### Pearl attaching presser foot

With this presser foot it is possible to attach pearls, beads and thick cord.

#### Presser foot with guide

As the presser foot has markings, which show 2 mm distance, these marking will serve as a guide.

#### Binder presser foot

It is possible to attach tapes such as bias tape into four folds.

#### Twin needle

By using two needles beautiful decorative stitches can be sewn. (Twin needle with size: 2.0 mm)

#### Hemming presser foot for zigzag

Fabric edge is hemmed by zigzag while rolling it under. Used for bottom of shirts, blouses, frills and the edge of handkerchiefs.

#### Appliqué presser foot

Since the front and back of the presser foot is short, it is easy to move the materials at curve points. Also fabrics can be seen easily because it is transparent.

#### Cording presser foot

It is possible to attach 1 - 3 cords by three-point zigzag or decorative stitch.

#### Invisible zipper foot

As a seam does not appear on the right side of the fabric, an opening can be finished with fabric edges neatly butted.

#### Smooth presser foot

This presser foot is used for non-slippery materials like vinyl and satin stitches.



requires the adapter shank.

## Cording and Embroidery presser foot

It is used in free motion quilting and a cord can be sewn together with this presser foot.

#### Quilt presser foot (open type)

It is used in free motion sewing. As the front portion is open, it is easy to see the needle entry point.

#### Magnifier

Creates additional magnification to the stitch area.

When you do not use the magnifier during sewing, it can be moved to the position where it does not interfere with the operator's hand.

#### Spool holder

A spool on which thread is thickly wound can be set. This spool is useful when sewing many stitches at a time such as quilting.

The thread stand comes in the different types; i.e., 1-piece type and 2-pieces type.

### • LED pointer

Crisscross light guide is displayed by the vertical and horizontal light beams by attaching the LED pointer to the separately-available holder. This light guide is helpful when you align the sewing starting positions and stitch position of the pattern during sewing.

## 11. Performance check list

#### If sewing difficulties occur, make sure the instructions are correctly followed. If a problem still exists, the reminders below may help solve it.

Case	Cause (Reason)	Solution	Refer- ence page
<ul> <li>The machine stops sewing suddenly. (This is in case you can turn hand wheel by hand.)</li> </ul>	<ul> <li>The machine sews at slow speed continuously.</li> <li>(The machine has a mechanism to automatically cut off the power to prevent the motor from overheating.)</li> </ul>	• Turn off the power and wait for a while (about 10 minutes). The safe- ty mechanism will be reset and the machine will return to normal.	3
<ul> <li>The machine will not work even when start/stop button is pressed.</li> <li>(This is in case sew- ing light is still on.)</li> </ul>	<ul> <li>The needle hits presser foot due to an installation of incorrect presser foot.</li> <li>The needle fell into the hook area and tried to start.</li> </ul>	<ul> <li>Use the appropriate presser foot to the selected stitch pattern.</li> <li>Remove the needle from the hook area.</li> </ul>	-
• Needle breaks.	<ul> <li>Thick material is sewn with a thin needle.</li> <li>The needle is not inserted fully.</li> <li>The needle setscrew is not securely tightened.</li> <li>The wrong presser foot is used for a certain pattern.</li> <li>Needle is bent.</li> </ul>	<ul> <li>Check the combination of fabric, thread and needle.</li> <li>Check the installation of needle.</li> <li>Securely tighten the needle setscrew.</li> <li>Check the combination of stitch pattern and presser foot to be used.</li> <li>Change needle.</li> </ul>	31 30 30 - 30
<ul> <li>Loud noise and/ or keen noise while sewing.</li> </ul>	<ul> <li>Lint or dust has accumulated in the feed dog.</li> <li>Lint or dust has accumulated in the hook.</li> </ul>	<ul><li>Clean the feed dog area.</li><li>Clean the hook area.</li></ul>	128 128
Machine fails to feed fabrics.	<ul> <li>The stitch length is set at "0".</li> <li>Soft fabrics such as towels are being sewn.</li> <li>The machine is set in drop feed condition.</li> <li>The height of the micro-lifter is too high.</li> </ul>	<ul> <li>When the stitch pattern is reselected, the machine goes back to the default setting.</li> <li>Set the stitch length to 3 to 5.</li> <li>Lift the feed dog.</li> <li>Adjust the height of the micro-lifter.</li> </ul>	47 - 14 43
<ul> <li>Needle can not be threaded. (This is in case needle threader will not turn.)</li> <li>The hook of needle threader does not go through the needle eye.</li> </ul>	<ul> <li>The needle is not in the up position. (When needle is not in the up position, needle threader will not turn. This is to avoid damages to the hook.)</li> <li>The needle is not inserted fully.</li> </ul>	<ul> <li>Rotate the hand wheel and lift the needle upwards.</li> <li>Check the installation of the needle.</li> </ul>	36 30

Case	Cause (Reason)	Solution	Refer- ence page
<ul> <li>The needle threading lever will not return to the original position and the machine can not turn properly. (This is in case the hook of needle threader remains in the needles eye.)</li> </ul>	• Hand wheel is turned by mistake while the needle threading lever is in down position. (in the process of threading to the needle.)	• Turn hand wheel slightly away from you. (to the opposite side when sewing).	-
• The machine will not start even when start/ stop button is pressed.	• The foot controller is plugged in.	• Start/stop button can function when foot controller is removed.	21
Thread breaks.	• The machine is incorrectly threaded.	Rethread the machine correctly.	37
<ul> <li>Stitch is skipped.</li> </ul>	• There is knot or knurl on the thread.	• Remove knot or knurl from thread.	-
	<ul> <li>Thread tension is not adjusted appropriately.</li> </ul>	<ul> <li>Adjust thread tension manually according to fabrics and thread to be used.</li> </ul>	41
	• The needle is bent or the tip of nee- dle is broken.	Change needle.	30
	• The needle is installed incorrectly.	Install needle correctly.	30
	<ul> <li>Threading of bobbin thread is not correct.</li> </ul>	• Check the correct way of setting bobbin thread.	34
	<ul> <li>The bobbin can not turn smoothly inside the hook holder.</li> </ul>	<ul> <li>Check the correct way of winding bobbin thread.</li> </ul>	-
	<ul> <li>The needle size does not match the thread.</li> </ul>	<ul> <li>Check the combination of thread and needle.</li> </ul>	31
	<ul> <li>Thread take-up is not threaded.</li> </ul>	Rethread the machine correctly.	38
• Thread tension is not good.	• The needle thread is threaded in correctly.	Rethread the machine correctly.	37
3	<ul> <li>The bobbin thread is threaded incorrectly.</li> </ul>	Check the correct way of setting bobbin thread.	34
	<ul> <li>The direction of spool cap doesn't match the spool.</li> </ul>	• Attach the spool cap in a correct direction.	37
Puckering occurs.	<ul> <li>The stitch length is too large on lightweight fabrics.</li> </ul>	<ul> <li>Make the stitch length smaller (shorter).</li> </ul>	45
	The needle tip is broken.	Change needle.	30
<ul> <li>The needle thread is caught in the bobbin winding thread guide during sewing.</li> </ul>	<ul> <li>The needle thread may be caught in the bobbin winding thread guide depending on the size of the spool cap.</li> </ul>	<ul> <li>Put the separately available net on the spool cap to prevent this problem.</li> </ul>	-
• 👿 sign is shown on the LCD display.	<ul> <li>Safety mechanism works when machine stops due to motor lock. Or, when the voltage fault has occurred.</li> </ul>	<ul> <li>The safety mechanism will be reset in a short while and the machine will return to normal. (At this time, the start/stop button will not light up.)</li> </ul>	-

## **12. List of stitch patterns**

: Types of patterns that can be selected under the single mode : Types of patterns that can be selected under the combination mode

: Patterns that can be sewn with the "JUKI Smart Feed"

Practical	Buttonhole	Appliqué Appliqué	Tapering	Quilt line Quilt line	Scallop Scallop
$\begin{array}{c} 001 \ 002 \ 003 \ 004 \ 005 \\ 007 \ 008 \ 009 \ 010 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	101 102 103 104 105 106 107 108 109 110 106 107 108 109 110 111 112 113 114 115 111 112 113 114 115 116 117 118 119 120 116 117 118 119 120 121 122 121 122 0	201 202 203 204 205 $0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	301 302 303 304 305         ■       ■       <	401       402       403       404       405         406       407       408       409       410         411       412       413       414       415         416       417       418       419       420         中       416       417       418       419       420         中       412       421       422       421       422	501 502 503 504 505 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

 *  The listing can be found inside the top cover of the sewing machine.

One-point	Decorative	Vintage	Feather / Lace
One-point	Decorative	Vintage	Feather / Lace
601       602       603       604       646       647       648       649       650 $\bigcirc$	701 702 703 704 705       746 747 748 749 750 $\checkmark$ $\checkmark$ $\checkmark$ 706 707 708 709 710       751 752 753 754 755 $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\uparrow$	801 802 803 804 805 $\times$ $\times$ $\times$ $\times$ $\times$ 806 807 808 809 810 $\times$ $\times$ $\times$ $\times$ $\times$ 811 812 813 814 815 $\times$ $\times$ $\times$ $\times$ 816 817 818 819 820 $\times$ $\times$ $\times$ $\times$ 816 817 818 819 820 $\times$ $\times$ $\times$ $\times$ 821 822 823 824 825 $\times$ $\times$ 821 822 823 824 825 $\times$ $\times$ 821 822 823 824 825 $\times$ $\times$ 826 827 828 829 830 $\wedge$ 831 832 833 834 835 $\times$ 836 837 $\times$ 836 837	901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 9 R R R R
Letters / numbers / signs			
A B C D E       A B C D E       A B C D E       A B C D E       A B C D E       A B C D E       F G         F G H I J       F G H I J       F G H I J       F G H I J       F G H G       F G         K L M N O       K L M N O       K L M N O       K L       P Q R ST       P Q         U V W X Y       U V W X Y       U V W X Y       U V W X Y       U V W X Y       U V M X Y         a b c d e       a b c d e       a b c d e       a b b       f f f       f f f         a b c d e       a b c d e       a b c d e       a b c d e       a b       b C d e       a b c d e         u V W X Y       U V W X Y       U V w X Y       U v w x Y       U v       u v         1 2 3 4 5       1 2 3 4 5       1 2 3 4 5       1 2 3 4 5       1 2 3 4 5       1 2 3 4 5         6 7 8 9 0       6 7 8 9 0       6 7 8 9 0       6 7 8 9 0       6 7 8 9 0       6 7 8 9 0         Å Å Æ à ä       Ä Å Æ à ä       Ä Å Æ à ä       Ä Å Æ à ä       Ä Å Æ à       Ä Å Å         à è é ê ë       à è é ê ë       à è é ê ë       à è é ê ë       ñ è Ø       Ø         ñ Ö Ø ò ö       Ö Ø Ø ô Ø       Ö Ø       Ø       Ø       Ø         0 Ø 0       Ö Ø Ø       Ø<	MNST e $j$ の $k$ P U P V P V P V P V P V P V P V P V P V	こそオコソ五十育組? やりやヤロハ州	

---- c.

## Specification list

Item	Specification
Body size	602 (W) × 310 (H) × 264 (D) mm
Weight	14.9 KGS
Volts	220 V - 240 V $\sim$ , 120V $\sim$ (USA/Canada only)
Watts	90 W
Hertz	50/60 Hz
Foot control model No.	JC-002
Frequency Range	2.400 GHz - 2.4835 GHz
Maxium Output Power	7.5 dBm



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