# **MITSUBISHI**

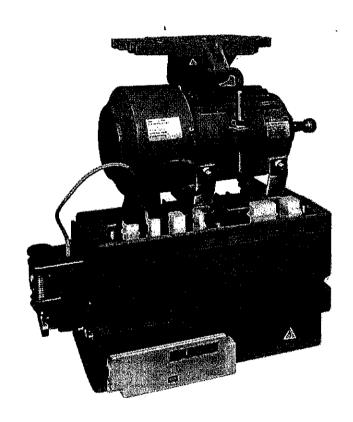
# Mitsubishi Limiservo X G series **TECHNICAL INSTRUCTION MANUAL**

Motor

XL-G554-10(Y), XL-G554-20(Y)

Control box XC-GMFY

Induction type AC servo motor and control box with automatic needle positioner



Thank you for purchasing this product.

Please read this manual thoroughly before use to ensure safe and proper use.

Please read the instruction manual for the machine head together with this manual.

Save this manual for future reference.

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2 Safety Instructions

# 1. To ensure safe use

\*Always observe the following items to ensure safe use of the industrial sewing machine drive unit (motor and control box).

#### 1.1 Before starting

Read all instruction manuals thoroughly before starting use of this drive unit, and follow the technical manuals. Also read the instruction manuals for the installed sewing machine.

#### 1.2 Application and purpose

This drive unit is designed to drive a sewing machine and must not be used for other applications or purposes. Do not use this drive unit until it can be confirmed that safety measures for the installed sewing machine have been taken.

#### 1.3 Work environment

Use this drive unit in dry and well-kept clean locations, e.g. in the clothing industry, and which process dry sewing material. Avoid using this control unit in the following types of environments.

(1) Power voltage

- Place where voltage fluctuation exceeds ±10% of the rated voltage.
- (2) Electromagnetic
- Place where the specified power capacity cannot be secured. (Refer to page 8)
  Place where strong electric or magnetic fields are generated such as near a large-output high frequency oscillator or high frequency welding machine.
- noise (3) Temperature
- Place where atmospheric temperature is 35 degree or higher and 5 degree or lower.
- and humidity
- Place subject to direct sunlight or outdoors.
  Near a heat source such as a heater.
- ....
- Place where relative humidity is 45% or less and 85% or more, or where dew condensation occurs.
- (4) Atmosphere
- Atmosphere with dust or corrosive gases.
  Atmosphere with combustible gases or explosive atmosphere.
- (5) Altitude
- Place where altitudes exceeds 1,000m above mean sea level.
- (6) Storage
- Place where storage temperature is 55 °C or higher and -25°C or lower.
- (7) Vibration
- If excessive vibration occurs when the control box is installed on the sewing machine, install it separately.

## 2. Installation

#### 2.1 Motor and control box

- Correctly install according to the attached technical manuals.

#### 2.2 Accessories

- Always disconnect this control unit from the main power supply when installing any accessories listed in the technical manual. (Turn the main switch OFF, and remove the plug from the outlet (power supply line).)

#### 2.3 Cable

- (1) Arrange the connection cable so that excessive force is not applied during use, and do not excessively bend the cable.
- (2) Cables near moving parts (e.g., pulley) must be wired at a minimum distance of 25mm.
- (3) Confirm that the power voltage of the power cable for supplying to the control box meets the specifications on the motor and control box rating nameplates before connecting it to the power line. Connect it to the designated places to supply the power. Perform this step with the power switch turned OFF.

#### 2.4 Grounding

- Correctly connect the power cable grounding to the power supply grounding.
- 2.5 Accompanying appliances and accessories
  - Electric accompanying appliances and accessories must be connected to the place listed in this manual.

#### 2.6 Removal

- (1) Turn the power switch OFF and remove the plug from the outlet (power supply line) before removing the motor or control box.
- (2) Do not pull on the cord when removing the plug. Always hold the plug itself.
- (3) There is a high voltage applied inside the control box, so always wait at least 10 minutes after running the power switch OFF and remove the plug from the outlet (power supply line) before opening the control box panel.

#### 3. Maintenance, inspection and repairs

- Follow the technical manuals for maintenance and inspection of this control unit.
- Repairs and maintenance must be done and approved by specially trained personnel.
- Do not run this control with the ventilation openings of the motor's dust-proof filter blocked or clogged with dust, loose cloth, etc.
- Always turn the power switch OFF and remove the plug from the outlet (power supply line) before replacing the sewing machine needle or bobbin, etc.
- Always use original replacement parts for repairs or maintenance.

#### 4. Other safety measures

- Keep fingers away from all moving machine parts (especially near sewing machine needle, etc.).
- Do not drop this control unit.
- Do not operate this product without parts such as the protective cover or protective devices such as the safety breaker.
- The servomotor surface may reach high temperatures depending on the operation conditions and loads. Do not touch directly.
- If any damage is observed on this control unit, if the drive does not run properly or if operator is uncertain about operation, do not operate the drive unit. Operate the drive only after adjustments, repairs and approvals have been made by qualified personnel.
- The user must avoid making modifications or changes based on user's judgment.
- When system have to be stop in case of emergency, remove the power supply plug from the power supply line.

# 5. Hazard display, warning display

- (1) This symbol indicates risk that may cause personal injury or risk to the machine when mishandling of products.
- (2) This symbol indicates electrical risks and warnings.
- (3) This symbol indicates thermal risks and warnings.
- Always deliver this instruction manual to the end user.
- Save these technical manuals for future reference.

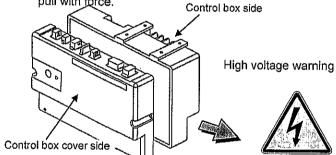




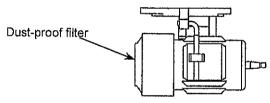


# Caution

- 1. Please remove your foot from the pedal when turning the power ON.
- 2. Always turn the power OFF when leaving the machine.
- 3. Do not inspect the control circuit with a tester.
- 4. Always turn the power switch OFF before tilting the sewing machine, replace the needle or threading the needle.
- 5. Always ground the grounding wire.
- 6. Do not use branched wiring.
- 7. The brakes may not function when the power is turned OFF or when there is a power failure during sewing machine operation.
- 8. Match the connector shape and direction, and insert securely.
- 9. Keep the signal wire as short as possible when connecting the external switch to the connector of control box. If it is long, malfunctions may occur. Use a shield wire when possible.
- 10. Install the sewing machine away from sources of strong noise such as high-frequency welders.
- 11. An optical method is used for the detector's detection element so take care not to let dust or oils get on the detection plate when removing the cover for adjustment, etc. If these do get on the plate, wipe off with a soft cloth and do not scratch the plate. Take care not to let oils enter between the detector discs.
- 12. When the position detector connector or the belt has come off or when the sewing machine is completely locked, the motor will be automatically turned OFF after a set time to prevent damage to the motor. (The motor may not turn OFF if the locking is not complete.) After the problem has been resolved, turn the power OFF and ON and normal operation will be possible. The same operation should be taken when the position detector or wires are broken.
- 13. Always turn off the power switch before connecting or disconnecting each connector
- 14. A high voltage is applied inside the machine, so wait at least 10 minutes after turning the power OFF before opening the control box. There is a cable connecting the PCB on the cover side with the PCB on the box side. When disconnecting the cable, gently disconnect at the connector section. Do not pull with force.

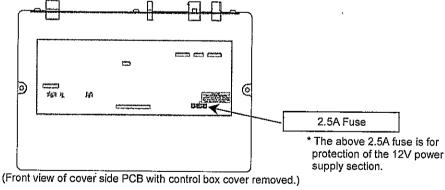


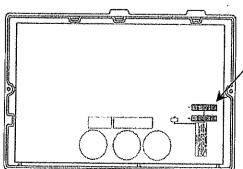
15. Remove the dust that has adhered on the motor's dust-proof filter once every two to three weeks.



If the motor is run while the filter is clogged, the motor may overheat and affect the motor life.

16. If the fuse blows, remove the cause, and replace the blown fuse with one having the same capacity.





Two 20A Fuses

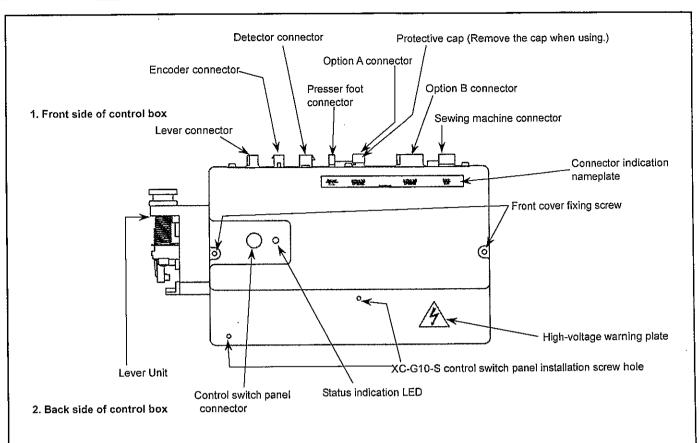
The above fuses are for protection of the control box power supply section.

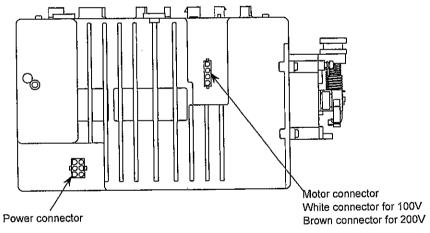


Always wait at least 10 minutes after turning the power switch OFF before opening the control box cover.

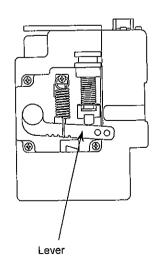
(Front view of box side PCB with control box cover removed.)

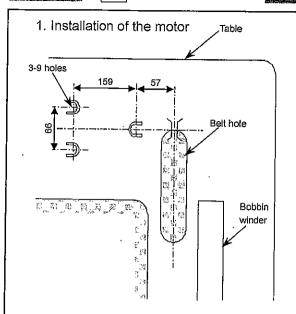






# 3. Left side of control box



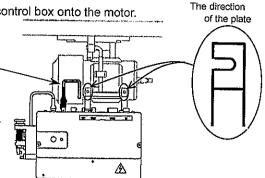


Using the hole opening pattern, open three 9mm holes on the table. Install the motor securely using the installation bolts, washers, spring washers and nuts. The pattern and installation bolts, etc., are included with the motor as accessories.

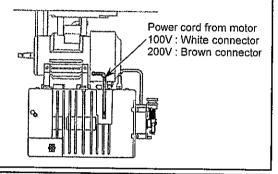
2. Installation of the control box

Encoder cord

(1) Tighten the control box onto the motor.



(2) Insert the power cord from the motor into the connector on the back of the control box. Insert the encoder cord from the motor into the encoder connector on the front of the control box.



3. Installation of the pulley

\* To properly install, the protective cover A (motor side of the protective cover) must be installed onto the motor before the pulley is installed. (Refer to "5. Installing the protective cover".)

Securely tighten the pulley.

Caution

Incomplete tightening may cause malfunctions.

Select the correct pulley diameter to ensure complete use of the motor performance.

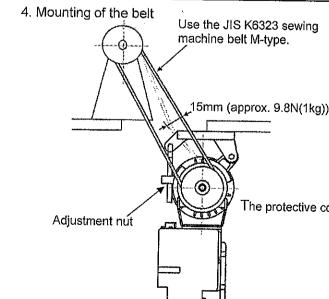
Selection of the motor pulley:

Motor pulley outer diameter (mm) Normal sewing machine speed x (\*) Motor speed

Sewing machine pulley diameter + 5 mm (effective diameter)

(\*) The motor speed should be set at 3,600rpm. When the motor pulley diameter is selected with the above method and the pulley diameter is too small, select the minimum pulley in the range that the belt will not slip.

(\*\*) Refer to page 20 for the pulley diameter to be used when using the Mitsubishi thread trimming sewing machine.



To adjust the belt tension, press down on the center of the belt with your hand, and turn the upper and lower nuts of the adjustment nut to increase or decrease the center height of the motor so that the belt dips approximately 15mm.

Caution

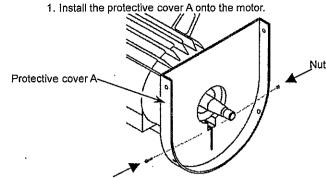
If the belt tension is too low, the medium and low speeds will be inconsistent, and the stopping precision will be poor. When too tight, the motor bearings will deteriorate.

The protective cover A is not shown.

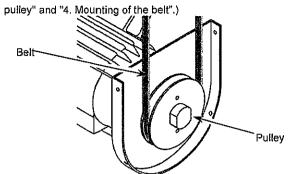


Caution For safety always turn the power switch off, before adjusting the belt.

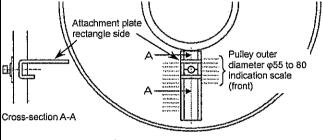
- 5. Installation of the protective cover (with belt slip off prevention part)
  - The protective cover is enclosed with the motor as an accessory.



2. Install the pulley and attach the belt. (Refer to "3. Installing the pulley" and "4. Mounting of the belt".)

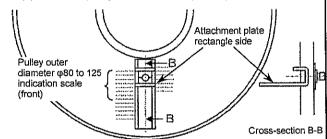


- Tightening bolt
- 3. Install the "belt slip off prevention part mounting plate" onto protective cover B with the following procedures.
  - \* Change the direction of the long and short side of the attachment plate according to the motor pulley outer diameter.
- (a) For motor pulley outer diameter φ55 to φ80



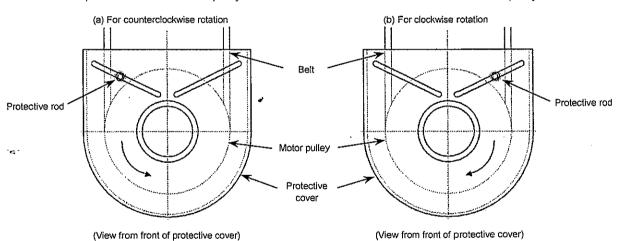
(View from back of protective cover)

(b) For motor pulley outer diameter φ80 to φ125

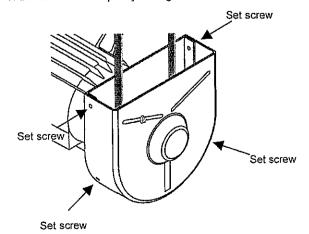


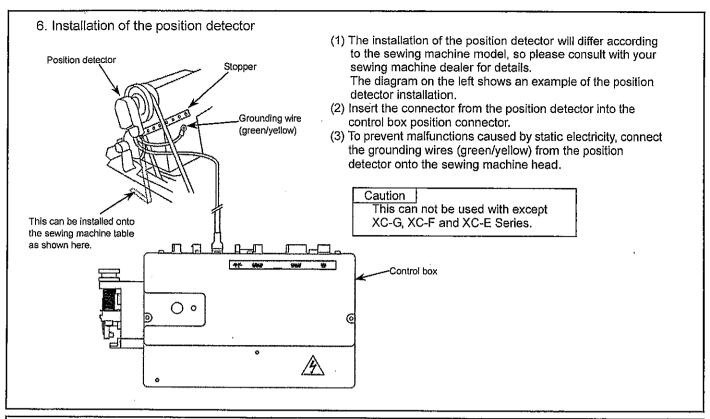
(View from back of protective cover)

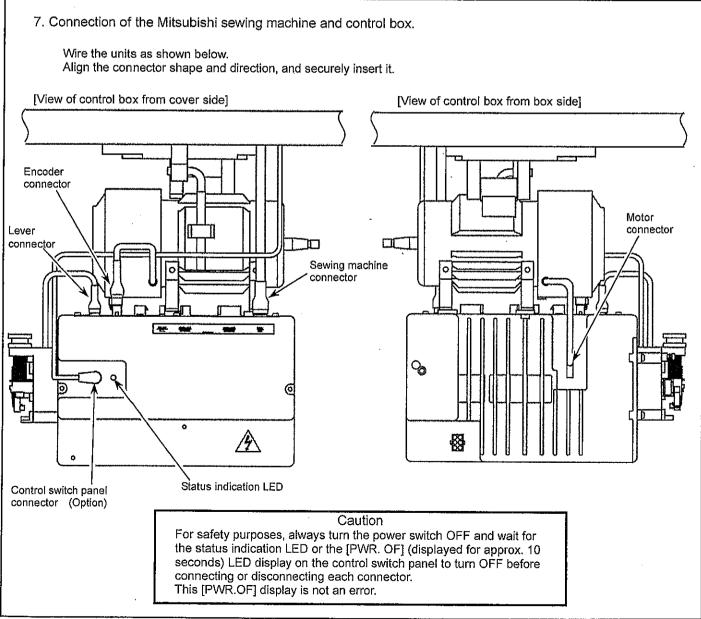
- \* Set the center of the washer to the pulley diameter indication scale and tighten the bolt.
- \* Confirm that the belt does not contact the attachment plate.
- 4. Install the "protective rod" onto the protective cover B with the following steps.
  - \* Set the protective rod to the motor pulley rotation direction and install between the belt and motor pulley.



- \* Set the center of the protective rod to the position at the center of the belt and motor pulley and tighten the bolt
- 5. Set protective cover B onto protective cover A, and tighten with the four set screws.
- \* Confirm that the belt and motor pulley do not contact the protective rod.
- 6. If necessary, adjust the position of the "protective rod" and "belt slip off prevention part mounting plate". Securely tighten after adjusting.









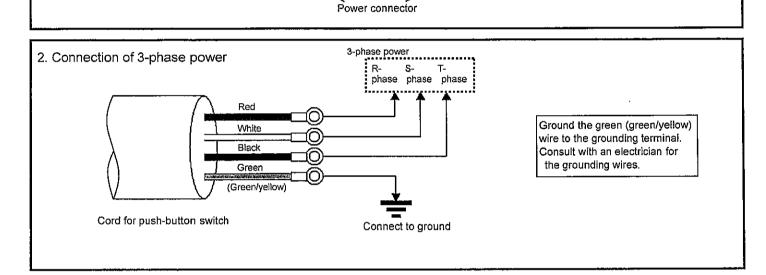
1. Insertion of the power connector

Confirm the connector form and insertion direction when inserting the power connector into the control box and insert completely.

Power connector
(6-Pole)

Right side of control box

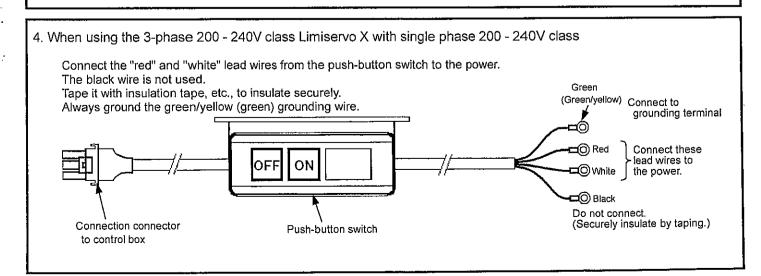
Back side of control box



3. Current capacity

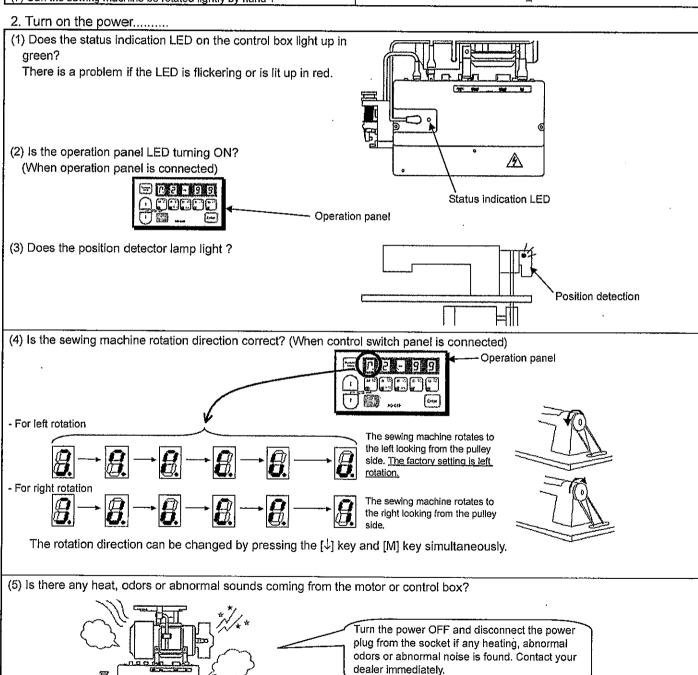
Use a fuse or complete breaker for the power.

Power	Recommended current capacity
Single phase 100 to 120V 550W 200 to 240V 550W	15A
3- phase 200 to 240V 550W	10A



Before turning switches on.......

Places to confirm	Reference
(1) Is the power and capacity suitable ?	Current capacity on page 8.
(2) Is the power voltage the same as the factory preset voltage of the rated nameplate on the side of the control box?	Voltage value given on rated nameplate on side of control box.  XC-GMFY-20-05: 200 to 240V  XC-GMFY-10-05: 100 to 120V
(3) Are the connectors inserted correctly?  -Power connector from push-button switch  -Motor connector  -Motor encoder connector  -Position detection connector	Insertion of the power connector on page 8.  Connection of the Mitsubishi sewing machine and control box on page 7.  Insertion of the position detector on page 7.
(4) Is the lead wire contacting the V belt ?	_
(5) Is the belt tension okay?	Mounting of the belt on page 5.
(6) Are the pulley nuts securely tightened ?	Installation of the pulley on page 5.
(7) Can the sewing machine be rotated lightly by hand?	



# 1. Adjustment of stopping position

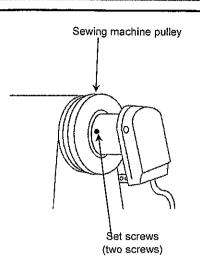
Adjust this position with the detector installed onto the sewing machine and while stopping at the UP and DOWN positions.

For safety, disconnect the connector for the sewing machine.

- (1) Adjustment of UP position
  - -Loosen the two set screws on the detector joint, and set the stop position by rotating by hand.
  - -If adjustment is not possible by turning the joint, loosen the cross-recessed screw A shown of the following figure, and turn all detector plates simultaneously to adjust to the designated stop position.

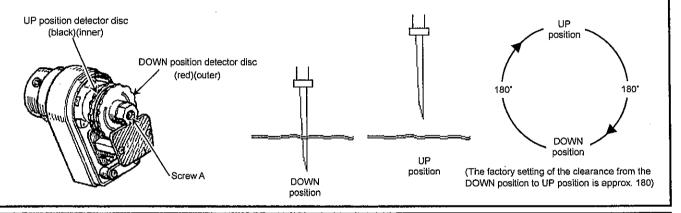
# (2) Adjustment of DOWN position

- -The relation of the DOWN position and UP position will differ according to the model, so adjust this according to the sewing machine.
- -When changing the DOWN position, remove the detector cover, and turn only the red detector plate to adjust to the designated stop position.
- (The cross-recessed screw A does not need to be loosened at this time.)
- -Always replace the cover after adjustment.



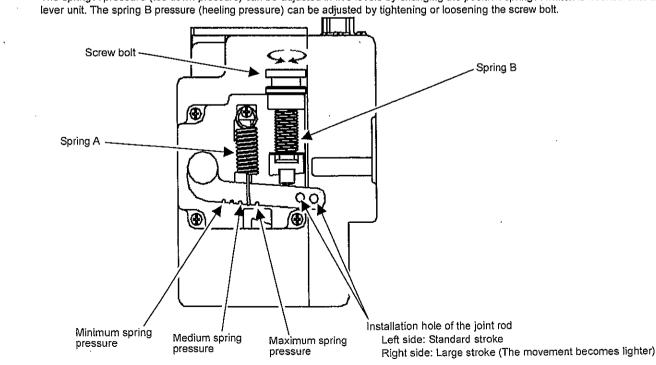
#### Caution

Refer to the sewing machine instruction manual when adjusting for use with the Mitsubishi sewing machine.



# Adjustment of pedal toe down pressure, and heeling pressure

The spring A pressure (toe down pressure) can be adjusted in five levels by changing the position spring A whitch is hooked onto the



# 3. Adjustment of operation speed

Adjustment of each speed		Reference	Factory setting (speed)
Maximum speed	Н	Page25 "To change the maximum speed"	4000
Low speed	L	<del>-</del>	250
Thread trimming speed	Т	_	200
Start tack speed	N	_	1700
End tack speed	<u>V</u>		1700
Slow start speed	s	<u> </u>	250
Operation speed		Adjust between the low speed [L] and hig the [C] and [D] keys on the operation par	gh speed [H] using nel.
			It is possible to adjust between 0 and 99.%  ]key  Adjustment range with the [C] key and [D] key.

# Caution

No matter how large the motor pulley diameter is, the speed will not rise higher than the maximum speed H and the speed set with the [C] key and [D] key.



9 Changing the solenoid voltage and output voltage



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Control box cover side

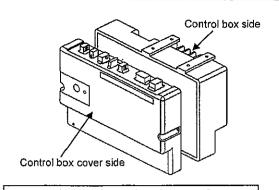
# 1. To change solenoid voltage DC24V/DC30V

To change solenoid voltage from 24V to 30V

- (1) Remove the front cover from the control box.
- (2) Reconnect the connector inserted in JP1 on the PCB to the 30V side.
- (3) Set the cover to the original position after change.

To change solenoid voltage from 30V to 24V

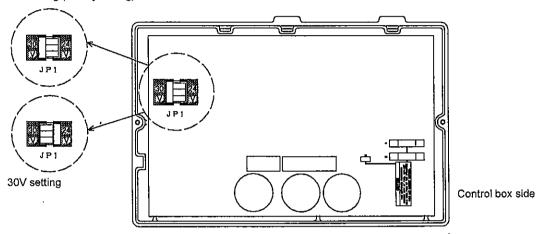
- (1) Remove the front cover from the control box.
- (2) Reconnect the connector inserted in JP1 on the PCB to the 24V side.
- (3) Set the cover to the original position after change.

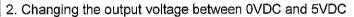




Wait at least 10 minutes after turning the power switch OFF before opening the control box.

24V setting (factory setting)



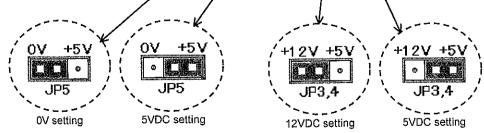


- (1) Remove the control box cover.
- (2) Change the output voltage 5/12VDC with the jumper JP3 and JP4 on the front cover PCB as shown on the right. Change the output voltage 0/5VDC with the jumper JP5 on the front cover PCB.
- (3) The output voltage can be changed by reconnecting the connector as shown on the right.

(4) The factory setting

Connector	factory setting	Connector (Pin No.)
JP3	+12V	No.3 pin of the option A
JP4	+5V	No.7 pin of the option B
JP5	ΟV	No.10 pin of the sewing machine

(5) After change, always set the cover to the control box.



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Wait at least 10 minutes after turning the power switch OFF before opening the control box.



Do not change the JP1,JP2 and JP6 from the factory setting.



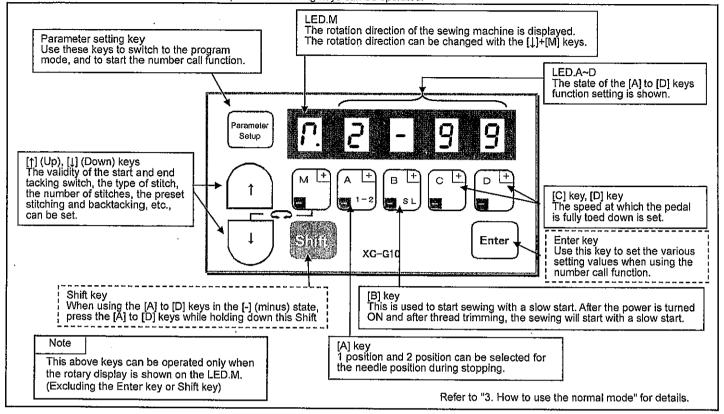
10 Operation of the Control Switch Panel Keys(When using XC-G10 type operation



1. Displays during normal mode and functions of each key

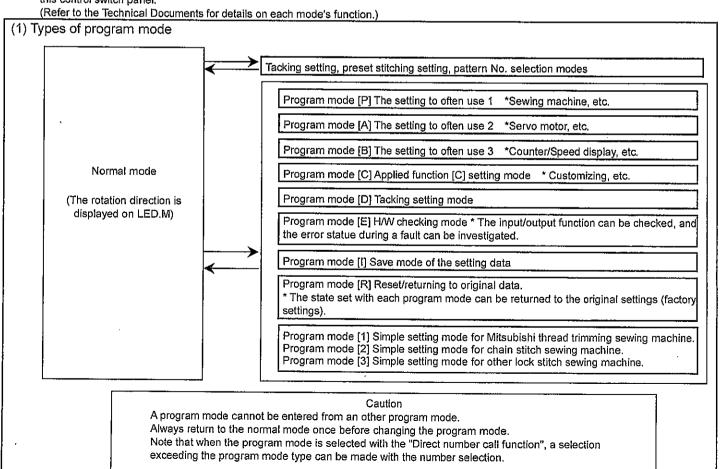
When the power supply switch is turned ON, the rotation direction will display on the LED.M shown below. When the rotation direction is not displayed on LED.M, press the [‡] key any time.

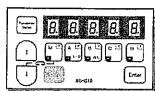
This state is called the normal mode, and the following keys can be operated.



# 2. Selection of each mode

The modes can be changed from the normal mode to various program modes and various basic functions and application functions set with this control switch panel.

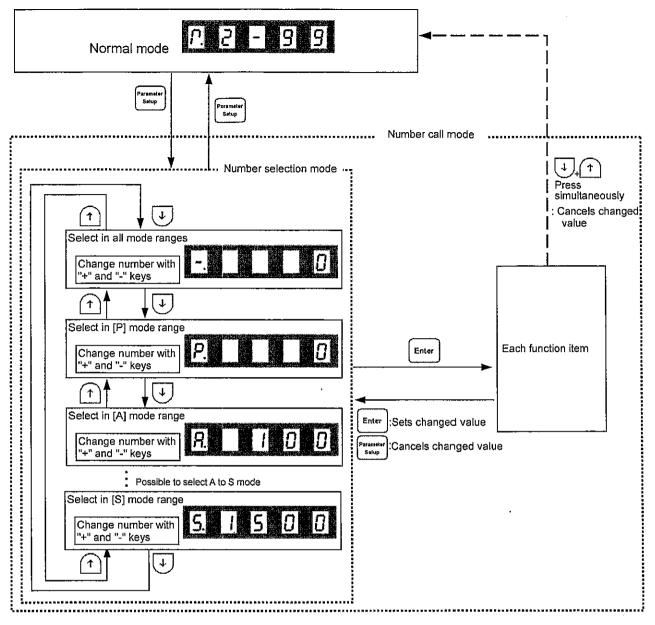




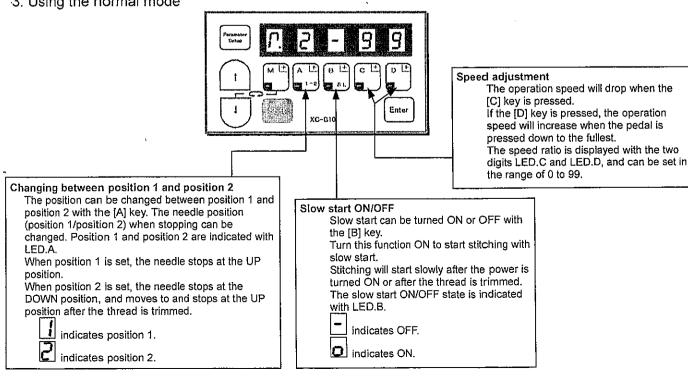
Mode name	Key operation	Digital display	Return to the normal mode
Tacking type setting mode	Press the [↑] key one time from the normal mode.	*The tacking setting mode will be entered.	Press the [‡] key one time.
No. of tacking stitch setting mode	Press the [†] key two times from the normal mode.	*The tacking stitches setting mode will be entered.  Note) Skipping about this menu at the time of pattern No.=4.	Press the [↓] key two times.
Preset stitching setting mode	Press the [†] key three times from the normal mode.	*The preset stitching setting mode  Note) Skipping about this menu at the time of pattern No.= A to H.	Press the [‡] key three times.
Pattern No. selection mode	Press the [†] key four times from the normal mode.	*The pattern No. selection mode will be entered.	Press the [] key four times.
Program mode [P]	While holding down the [1] key, press the [↑] key for 2 seconds or more from the normal mode.	*The display will flicker.  *The program mode [P] will be entered. Switch the function item with the [t] or [†] key.	Press down [i] key, press [↑] key.
Program mode [A]	for 2 seconds or more from the normal mode.  While holding down the [1] key, press the [A] key for 2 seconds or more from the normal mode.  While holding down the	*The display will flicker.  *The program mode [A] will be entered. Switch the function item with the [1] or [1] key.	Press down [t] key, press [†] key.
Program mode [B]	from the normal mode.  While holding down the [1] key, press the [B] key for 2 seconds or more from the normal mode.  While holding down the [1] key, press the [C] key for 2 seconds or more from the normal mode.  While holding down the [1] key, press the [D] key for 2 seconds or more from the normal mode.  While holding down the [1] key, press the [D] key for 2 seconds or more from the normal mode.  While holding down the [1] key press the [A] key press the [A] key	*The display will flicker.  *The program mode [B] will be entered. Switch the function item with the [i] or [1] key.	Press down [‡] key, press [†] key.
Program mode [C]	While holding down the  []] key, press the [C] key  for 2 seconds or more  from the normal mode.	*The display will flicker.  *The program mode [C] will be entered. Switch the function item with the [1] or [1] key.	Press down [t] key, press [†] key.
Program mode [D]	While holding down the 0, 1	*The display will flicker.  *The program mode [D] will be entered. Switch the function item with the [1] or [1] key.	Press down [t] key, press [†] key.
Program mode [E]	While holding down the  [1] key, press the [A] key and the [1] key for 2 seconds or more from normal mode.	*The display will flicker.  *The program mode [E] will be entered. Switch the function item with the [i] or [î] key.	Press down []] key, press [†] key.
Program mode [I]	While holding down the [1] key, press the [1] key and the [B] and the [C] key for 2 seconds or more from normal mode.	*The display will flicker.  5 8 5 5. *The program mode [I] will be entered.	Press [D] key for 2 seconds or more. [*1]
Program mode [R]	While holding down the [ 1 ] key, press the [B] and the [C] key for 2 seconds or more from normal mode.	*The display will flicker.  *The program mode [R] will be entered.	Press [D] key for 2 seconds or more. [*1]
Program mode [1] Simple setting	While holding down the [ \( \frac{1}{2} \) key, press the [A] and the [B] key for 2 seconds or more from normal mode.	*The display will flicker.  *The program mode [1] will be entered. Switch the function item with the [1] or [†] key.	Press [D] key for 2 seconds or more. [*1]
Program mode [2] Simple setting	While holding down the [ 1 ] key, press the [C] and the [D] key for 2 seconds or more from normal mode.	*The display will flicker.  *The program mode [2] will be entered. Switch the function item with the [1] or [1] key.	Press [D] key for 2 seconds or more. [*1]
Program mode [3] Simple setting	While holding down the [ \( \frac{1}{2} \)] key, press the [A] and the [D] key for 2 seconds or more from normal mode.	*The display will flicker.  *The program mode [3] will be entered. Switch the function item with the [1] or [1] key.	Press [D] key for 2 seconds or more. [*1]

<sup>[\*1]</sup> To return to the normal mode without executing each function in mode [I], [R], [1], [2]or [3], press the [1] and [1] keys simultaneously.

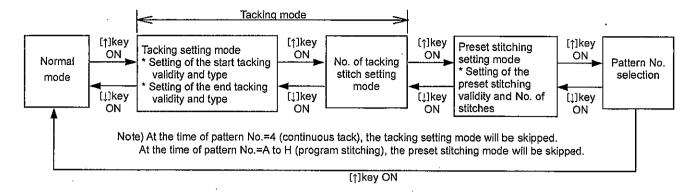
(3) Direct n The nu	number call function (Directly selecting program mode function iter umber of each function listed in section "13 List of functions" ca	n from normal mode) n be directly designated to call the function item.
[Basid (1)	Press return in the normal mode and switch to the number selection mode.	(The normal mode)
(2)	(1000th) (100th) (10th) (1st place)  Press the (1-2) (100th) (10th) (1st place) (100th) (10th) (10th) (1st place) (100th) (10th)	The number selection mode)
(3)	(To use the above "+/-" key as a "-" key, press while holding down when the target function item number appears,	1 M (2) A LL (0 (2) C LL (0 (2) C) C LL (0 (2) C) C LL (0 (2) C LL (0 (2) C) C LL (0 (2) C LL (0 (2) C) C LL (0 (2) C) C LL (0 (2) C LL (0 (2) C) C LL
(J)	press Enter.  (Number 33 as shown on page 38 is called out in this example.)	Freedric - 3 3 3  1
(4)	This completes calling of the function item.  (In this example, function name [AT.] was called out.)    13   Function list	Freedra F
- Pre · - Pre	The display will return in the order of [Function item] —	
- The	the changed items will be canceled if the normal mode is return to display LED will flicker if a function number that does not exist the range of the number designation can be limited as shown belowed and then pressing the or fixey.	et is displayed. Select a number that exists.
1111	(1) Selection of number for each mode (P, A, B, C)	n be made in A mode range)
* Ref	1-1111111111111111111111111111111111111	n be made in all mode ranges)



# Using the normal mode

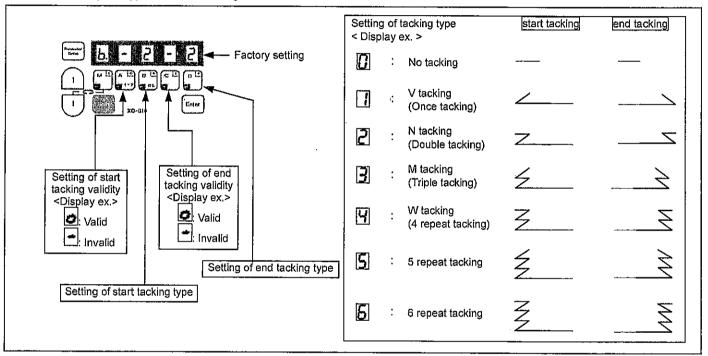


# 4. Changing to the tacking, preset, pattern NO. selection mode



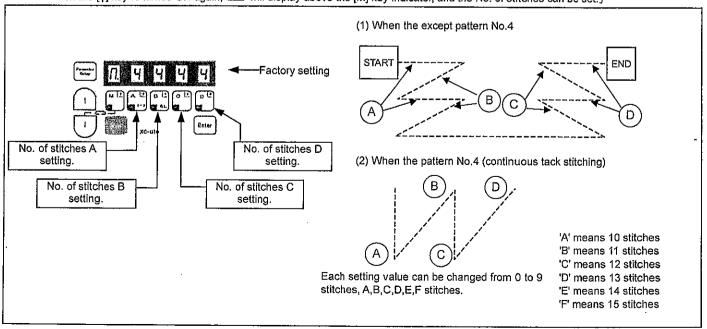
# (1) Tacking setting mode (At the time of pattern No.=4, this mode will be skipped.)

When the [↑] key is turned ON, will display above the [M] key, and the tacking setting mode will be entered. The validity and type of start and tacking can be set here.



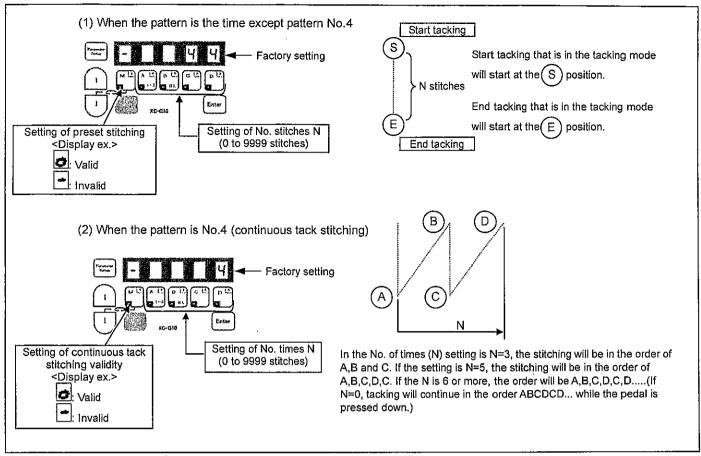
# (2) No. of tacking stitches setting mode

When the [†] key is turned ON again, will display above the [M] key indicator, and the No. of stitches can be set.]



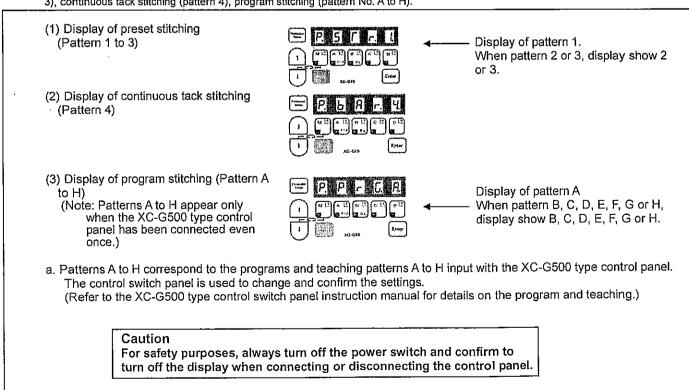
(3) Preset stitching setting mode

The preset stitching setting mode is entered when the [†] key is turned ON again. The validity of preset stitching and the number of stitches N can be set.



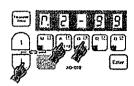
(4) Pattern No. selection mode

When the [↑] key is turned ON again, and the pattern No. selection mode will be entered. Selecting of preset stitching setting (pattern 1 to 3), continuous tack stitching (pattern 4), program stitching (pattern No. A to H).



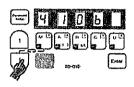
5. Using the program mode [1] simple setting To set the settings to a specific machine in simple setting. (For example, to set to "LU2-4410-B1T" ... Function setting [410B])

(1)



\*Enter the program mode [1]. ([1] + [A] + [B] keys)

(3)

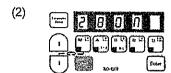


\*Press the [the line is a second to the second in the second is a second in the second [410B].

(5)

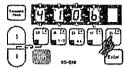


\*The mode will return to the normal mode when the [D] key is held down over two seconds or more. (This completes the settings.)



\*The mode will change to the program mode [1].





\*When the [D] key is held down, [410B] will flicker, and the changes to the setting will be set.

# Description

A. Select the function name corresponding to the sewing machine model from the following simple setting table. The item will change sequentially each time the [ $\downarrow$ ] or [ $\uparrow$ ] key is pressed in step (3). (The factory setting is [280M].)

B. After selecting the function name, holds down the [D] key over 2 seconds or more. The function name's set speed and function setting will be set automatically. To return to the normal mode without setting the function name here, press the [↑] key while holding down the [↓] key.

# Caution

When this function is set, all previously set details will be cleared. The set speed and function setting corresponding to the selected sewing machine model will be set automatically.

- C. The set function settings (simple setting value (type)) can be confirmed with the function name corresponding to the set sewing machine model using the following procedures (E mode).
  - Call out the program mode [E] function [T]. (The mode can also be called out directly with a number[772]. Refer to pages 14 to 16.)



The function name corresponding to the set sewing machine model will appear. (For example when [3750] is set.)

Return to the normal mode.

(Press [↓]+[↑] or

# Simple setting table for Mitsubishi thread trimming sewing machine and motor pulley outside diameter.

				Function setting			Motor	ſ					
	Function name	Digital display	Sewing machine type	High speed (H)	Low speed (L)	Thread trimming speed (T)	Start tacking speed (N)	End tacking speed (V)	D mode tack alignment (BM)	A mode weak brake (BK)	A mode gain selection (GA)	pulley outside diameter (mm)	
*3 1	280M	2800	LS2-1280-M1T (W)	4000	250	200	1700	1700	OFF	OFF	L		١,
	280H	580H	LS2-1280-H1T(W)	3000	250	200	1200	1200	OFF	OFF	L		
	280B	5806	LS2-1280-B1T	3000	250	200	1200	1200	OFF	OFF	L		
<b>V</b>	380M	380n	LS2-1380-M1T(W)	4000	250	200	1700	1700	OFF	OFF	Ļ		
	380H	380x	LS2-1380-H1T(W)	3000	250	200	1200	1200	OFF	OFF	L.		
	380B	3806	LS2-1380-B1T	3000	250	200	1200	1200	OFF	OFF	ı.	85	
	210M	5 100	LS2-2210-M1T(W)	4000	250	200	1700	1700	OFF	OFF	L		
ĺ	230M	230n	LT2-2230-M1TW	3700	250	175	1200	1200	OFF	OFF	Н		
ļ	230B	5308	LT2-2230-B1T	3000	250	175	1200	1200	OFF	OFF	Н		l
	250M	2501	LT2-2250-M1TW	3000	250	175	1200	1200	OFF	OFF	Н		l
	250B	2506	LT2-2250-B1T	3000	250	175	1200	1200	OFF	OFF	н		
ĺ	3310	33 10	LY2-3310-B1T	2000	250	225	700	700	ON	OFF	н		
Ì	3319	33 19	LY2-3319-B1T	2000	250	225	700	700	ON	OFF	н		
	3750	3750	LY2-3750-B1T	2000	250	200	700	700	ON	OFF	Ļ		l
Ì	6840	8840	LY3-6840-B0T	2000	250	150	700	700	ON	OFF	н	65	l
Ī	6850	8850	LY3-6850-B1T	2000	250	150	700	700	ON	OFF	L		İ
ı	410B	4 106	LU2-4410-B1T	2000	250	175	700	700	ON	OFF	L		l
*8	412B	4 126	LU2-4412-B1T	2000	250	175	700	700	ON	OFF	L	1	١
ı	430B	4306	LU2-4430-B1T	2000	250	175	700	700	ON	OFF	L		
Ī	4650	4850	LU2-4650-B1T	3000	250	175	700	700	ON	OFF	L		
*8	4652	4852	LU2-4652-B1T	3000	250	175	700	700	ON	OFF	L	٥٫٫	
	4710	47 10	LU2-4710-B1T	3000	250	175	700	. 700	ON	OFF	L	85	1
	4730	4730	LU2-4730-B1T	2500	250	175	700	700	ON	OFF	L		
ı	630	830	LX2-630-M1	800	280	160	500	500	ОИ	ON	L	65	1
٨	280E	280E	LS2-1280-M1T(W)	5000	250	200	1700	1700	OFF	OFF	н	110	1
	FL	FL	*5	5000	250	200	1700	1700	OFF	OFF	L		1
	N	C	*6	5000	250	200	1700	1700	OFF	OFF	L		
	LOAD2	LoRd2	*7										
*4	LOAD1	LoRdI	*7										

<sup>\*1</sup> Factory setting is [280M].

(Note: In case of LY2-3310/3319/3750 is 80 mm, LU2-4410/4412/4430/4650/4652/4710/4730 is 85 mm.)

<sup>\*2</sup> The effective diameter of the sewing machine pulley is 70 mm.

<sup>\*3</sup> A function name is displayed in order to the direction of  $\downarrow$  every time it presses a [ $\downarrow$ ] key.

<sup>\*4</sup> A function name is displayed in order to the direction of ↑ every time it presses a [↑] key.

<sup>\*5</sup> For sewing machine with foot lifter, without thread trimmer.

<sup>\*6</sup> For needle positioner.

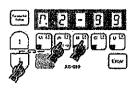
It is possible to load the saved setting data by the function of [SAVE\*] in the program mode [ | ]. (Program mode [1]:[ $\downarrow$ ]+[ $\uparrow$ ]+[B]+[C] key)

<sup>(</sup>The factory setting of [LOAD1] is the setting data of [412B] and the factory setting of [LOAD2] is the setting data of [280M].)
\*8 The short remaining thread trimming function is set.

6. Using the program mode [2] simple setting (for chain stitch trimming machine)

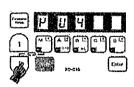
To set the function for chain stitch sewing machine in simple setting. (Ex. To set for the VC2800, VC3800 class, "YAMATO") ........ Function setting [YU4]

(1)



\*Enter the program mode [2].  $([\downarrow] + [C] + [D] \text{ keys})$ 

(3)



\*Press the [↓] key or [↑] key to change the function to [YU4].

(5)

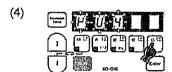


\*The mode will return to the normal mode when the [D] key is held down over two seconds or more.

(This completes the settings.)



\*The mode will change to the program mode [2].



\*When the [D] key is held down, [YU4] will flicker, and the changes to the setting will be set.

# Description

- A. Select the function that corresponds to the sewing machine model for "Simple setting table for chain stitch sewing machine" on the page 22.

  After selecting the function name, holds down the [D] key over 2 seconds or more. The function name's set speed and function setting will be set automatically (Refer to the simple setting table for "YAMATO" on page 22.)
- B. To return to the normal mode from the [YU4] display, press the [†] key while holding down [‡]. In this case, [YU4] will not be set, and the last settings will be used.
- C. Each time the [ ] key is pressed in step (3), the function will change in order from [YU2], [YU3], [YU4]....[JMH].

# Caution

To use this mode, please ask your dealer or look at "TECHNICAL INFORMATION MANUAL" about simple setting, I/O signal, Junction wiring in detail.

# Simple setting table for chain stitch sewing machine

								· · ·	<u> </u>			
	Function	Digital	Sewing machine	Model rome of coving marking and device	Needle	High	Low	Thread trimming	Start con- densed	End con- densed		
	name	display	maker	Model name of sewing machine and device	position	speed (H)	speed (L)	speed	speed	speed		
*1	YU2	<b>LU5</b>	YAMATO	VC2600, VC2700 class Solenoid-operated under thread trimmer	2	6000	200	(T) 200	(N) 1400	(V) 1400		
	YU3	P113	YAMATO	VC2600, VC2700 class Air-operated under thread trimmer with air wiper	2	6000	200	200	1400			
Ш				VC3845P,2845P,2840P class Air-operated under thread trimmer with air	<del>                                     </del>					1400		
	YU4	អព្ <del>រដ</del>	YAMATO	wiper	2	6000	200	200	1400	1400		
٧,	YU5	<i>PUS</i>	YAMATO	Solenoid-operated under thread trimmer with solenoid wiper W(T) series /UT device	2	6000	200	200	1400	1400		
	NO1	noi		Elèctric under thread trimmer	1	6000	200	200	1400	1400		
	NO1A	no 18	PEGASUS	W(T) series /UT device Pneumatic under thread trimmer with pneumatic top cover thread trimmer	1	6000	200	200	1400	1400		
	NO2	Jos	PEGASUS	Do not use !!								
	NO3	no3	PEDASUS	FW series /UT device Electric under thread trimmer	1	4500	200	200	1400	1400		
	NO3A	no3R		FW series /UT device Pneumatic under thread trimmer	1	4500	200	200	1400	1400		
ļ	NQ4	704	PEGASUS	W674/UT device Super tack	1	4000	200	200	1400	1400		
	NO5	no5	PEGASUS	W(T)562-82/UT device Angled stitch Electric under thread trimmer	1	6000	200	200	1400	1400		
	NO5A	no5R	PEGASUS	W(T)562-82/UT device Angled stitch Pneumatic under thread trimmer with pneumatic top cover thread trimmer	1	6000	200	200	1400	1400		
ı	NO6	იინ	PEGASUS	Do not use II	!I			l				
ı	NO7	non	PEGASUS	W(T)600,200 series /UT device condensed stitch	1	6000	200	200	1400	1400		
	NO7A	กอาห	PEGASUS	Electric under thread trimmer W(T)600,200 series /UT device condensed stitch	1	6000	200	200	1400	1400		
ŀ	NO8	208	PEGASUS	Pneumatic under thread trimmer with pneumatic top cover thread trimmer  Do not use !!	! <u>'</u>			ŀ				
	NOD	nod	DECAGUE	W(T) series /SL device Stitch lock	1	6000	200	200	1400	1400		
ı	NOF	noF		Pneumatic under thread trimmer EX/BL500.600 series	1	6000	200	200	1400	1400		
ı	PFL	PFL		For sewing machine with foot lifter, without thread trimmer	1	6000	200	200	1400	1400		
ŀ	PN				1							
ŀ			<del></del> [	For needle positioner		6000	200	200	1400	1400		
ŀ	KA1	<u> </u>		M, RX series Automatic thread trimmer with solenoid wiper	2	6000	250	250	1400	1400		
Į	KA2	<u> F85</u>		D series Automatic thread trimmer with air wiper	2	6000	250	250	1400	1400		
	KA3	<u> </u>	KANSAI	F series Air-operated under thread trimmer with air wiper	2	6000	250	250	1400	1400		
	KA4	<u> </u> 논유식	KANSAI	DX series Air-operated under thread trimmer with air wiper	2	6000	250	250	1400	1400		
ļ	UN1	Un 1	UNION SPECIAL	33700, 34500 class Solenoid-operated under thread trimmer	2	4000	200	200	1400	2999		
l	UN2	<u> </u>	UNION SPECIAL	34800skcc class Solenoid-operated under thread trimmer	2	5500	200	200	1400	2999		
Į	UN3	Un3	UNION SPECIAL	34700 class Push and Pull air-operated under thread trimmer with air wiper	2	4000	200	200	1400	2999		
- 1	U345	U345		Do not use II								
[	U346	U348		Do not use !!								
-	U348	U348		Do not use !!	ı							
1	U347	U347		Do not use !!								
ı	U160	U 160		Do not use il	1							
ı	U16	U 15		Do not use !!								
ı	U362	U362		Do not use !!								
ا ، .	UFCW	UFC8		Do not use !!	'							
Λ	BR1	brl	BROTHER	FD3, FD4 series	2	6000	200	200	1400	1400		
	RM1	-Ni	RIMOLDI		1	6000	200	200	1400	1400		
	SRB1	5-61	SIRUBA		2	6000	200	200	1700	1700		
*2	JMH	ปกห	JUKI	MH-481-4-4, MH-484-4-4 class	2	5500	200	200	1700	1900		
-		<u> </u>	I									

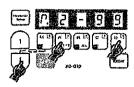
<sup>\*1</sup> A function name is displayed in order to the direction of [1] every time it presses a [1] key.

\*2 A function name is displayed in order to the direction of [1] every time it presses a [1] key.

Note: Please refer to the "TECHNICAL INFORMATION MANUAL" for the Junction wiring, I/O signals and details.

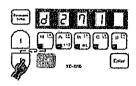
7. Using the program mode [3] simple setting (for lock stitch trimming machine except Mitsubishi sewing machine)
To set the function for DÜ RKOPP ADLER thread trimming sewing machine in simple setting
(For example, to set for the 271 class, "DÜ RKOPP ADLER") ......... Function setting [D271]

(1)



\*Enter the program mode [3]. ([1] + [A] + [D] keys)

(3)



\*Press the [↓] key or [↑] key to change the function to [D271].

(5)



\*The mode will return to the normal mode when the [D] key is held down over two seconds or more.

(This completes the settings.)



\*The mode will change to the program mode [3].



\*When the [D] key is held down, [D271] will flicker, and the changes to the setting will be set.

# Description

- A. Select the model name that corresponds to the sewing machine model for the simple setting values for the DÜRKOPP ADLER thread trimming sewing machine on the "Technical manual". After selecting the function name, holds down the [D] key over 2 seconds or more. The function name's set speed and function will be set automatically.
- B. To return to the normal mode from the [D271] display, press the [↑] key while holding down [↓]. In this case, [D271] will not be set, and the last settings will be used.
- C. Each time the [↓] key is pressed in step 3, the function will change in order from [D697], [D271], [D273].....[750].

#### Caution

To use this mode, please ask your dealer or look at "TECHNICAL INFORMATION MANUAL" about simple setting, I/O signal, Junction wiring in detail.

# Simple setting table for thread trimming sewing machine

	Function name	Digital display	Sewing machine maker	Model name of sewing machine and device	Needle position	High speed	Low	Thread trimming speed	Start tacking speed	End tacking speed
*1	D697	4697	DÜRKOPP ADLER	697-15000 class	2	(H) 1500	(L) 250	(T) 150	(N) 700	(V) 700
П	D271	9571	DÜRKOPP	271-14000,272-14000 class	2	3000	170	250	1500	1500
	D273	9543	DÜRKOPP	273-14000,274-14000 class	2	3000	170	250	1500	1500
۷	B715	6715		DB2-B705,DB2-B707,DB2-B715 class	2	4300	215	215	1800	1800
	B716	67 15	BROTHER	DB2-B716-?,DB2-B716-1,DB2-B716-?,DB2-B716-5 class	2	3500	215	215	1800	1800
	B737	PJ3J	BROTHER	DB2-B737-1,DB2-B737-3,DB2-B737-5 class	2	4000	215	215	1800	1800
	B740	<b>ይ</b> ባዛዐ	I BRUIHER B	D82-B746-5,D82-B746-7,D82-B746-8,D82-B747-5,DB2-B748- 5,DB2-B748-7 class	2	2000	215	215	1800	1800
	B757	ይሳ5ሳ	BROTHER	DB2-B757 class	2	5000	215	215	1800	1800
	B770	6110	BROTHER	DB2-B772,DB2-B774,DB2-B7740,DB2-B778 class	2	4500	215	215	1800	1800
	B790	6790	BROTHER	DB2-B790,DB2-B791-3,DB2-B791-5,DB2-B7910-3,DB2-B7910 -5,DB2-B792,DB2-B793-403,DB2-B795,DB2-B798 class	2	3500	215	215	1800	1800
	B830	6830	BROTHER	DB2-B837,DB2-B838 class	2	3000	215	215	1800	1800
	BLT	PLL	BROTHER	LT2-B841-1,LT2-B841-3,LT2-B841-5,LT2-B842-1,LT2-B842-3,L T2-B842-5,LT2-B845,LT2-B8450,LT2-B8480,LT2-B847,LT2-B8 48,LT2-B872,LT2-B875,LT2-B8750 class	2	3000	185	185	1000	1000
	BLZ	bl E	BROTHER	LZ2-B852,LZ2-B853,LZ2-B854,LZ2-B856,LZ2-B857 class	2	3000	185	185	1800	1800
	J500	J500	<del></del>	DDL-500,DMN-5420NFA-6-WB class	2	5000	200	200	1700	1900
	J505	J505		DDL-505,DDL-505A,DDL-506,DDL-506A,DDL-506E,DDL-560- 5,DDL-5600,DLU-5494NBB-6-WB,PLW-1245-6,PLW-1246-6,P LW-1257-6,PLW-1264-6,PLW-1266-6 class	2	4000	200	200	1700	1900
	J555	J555		DDL-555-2-2B,DDL-555-2-4B,DDL-555ON,DDL-5570,DDL-557 1,DDL-5580 class	2	4000	200	200	1700	1900
	JDL	JGL	JUKI	DLD-432-5,DLD-436-5,DLM-5400N-6,DLM-5400-6,DLN-415-5, DLN-5410N-6,DLN-5410-6,DLU-450,DLU-490-5,DLU-491-5,DL U-5490BB-6-OB,DLU-5490BB-6-WB,DLU-5490N-6,DMN-530- 5,DMN-531-5 class	2	4200	200	200	1700	1900
	JDU	ปสม	.N.IKI	DNU-241H-5,DNU-241H-6,DSC-244-6,DSC-244V-6,DSC-245- 5,DSC-245-6,DSC-246-6,DSC-246V-6,DSU-142-6,DSU-144-6, DSU-145-5,DSU-145-6,DU-141H-4,DU-141H-5,DU-141H-6,DU -161H-6 class	2	2000	200	200	1700	1900
	JLH	JLH	JUKI	LH-1172,LH-1180-5,LH-1182-5,LH-1150,LH-1152,LH-1160,LH-1 162 class	1	2300	200	200	1700	1900
	JLU1	ULUI	JUKI	DDL-5560NL-6,LU-1114-5,LU-1114-6,LZH-1290-6 class	2	2800	200	200	1700	1900
	JLU2	71.715	JUKI	LU-2210-6-0B class	2	3500	200	200	1700	1900
	T100	r 100	TOYOTA	AD1012,AD1012B,AD1012G,AD1013,AD1013A,AD1013G,AD1 020,AD1102,AD1102B,AD1102G,AD1103,AD1103A,AD1202,A D1203,AD1204S,AD1205,AD1205S,AD1212G,AD1213,AD220 0,AD5010S class	2	3500	200	200	1700	1700
	T157	<u> 157</u>	TOYOTA	AD157,AD157G class	2	4000	200	200	1700	1700
	T158	Γ 158	IOYOIA	AD158,AD158-2,AD158-22,AD158A-3,AD158A-32,AD158B-2, AD158B-22,AD158G-2,AD158G-22,AD158-3,AD158-32 class	, 2	3500	200	200	1700	1700
	Т300	r 300	тоуота	AD3110,AD3110P,AD320-2,AD320-22,AD320-202,AD331,AD3 310,AD3310P,AD332,AD340-2,AD340-22,AD340-202,AD340B- 2,AD340B-22,AD340B-202,AD341-2,AD341-22,AD341-202,AD 345-2,AD345-22,AD345-202,AD352 class		1900	200	200	1700	1700
	U639	<i>U</i> 539	UNION SPECIAL	Class 63900 Solenoid-operated needle feed under trimmer	2	4000	250	180	1700	1700
	SLH2	SLHZ	SEIKO	SLH-2B	2	570	100	100	1700	1700
	457G	4576	SINGER	457 Wiper	2	4000	250	160	1500	1500
	457F	457F	~	457 Thread pull	2	4000	250	160	1500	1500
	591	<u>59 !</u>	ļ	591, 1591	2	4000	250	200	1500	1500
	211A	<u> 2 1 18</u>	<del></del>	211A	2	2300	200	180	1000	1000
;	212A	5 158		212A	2	3500	200	180	1000	1000
	411U	4110	· · · · · · · · · · · · · · · · · · ·	411U	2	4000	250	180	1500	1500
٠٨	412U	<u> </u>		412U	2	4500	250	180	1500 1500	1500 1500
	591V	59 10	SINGER	591V	2	4000	250 250	200	1500	1500
	691A	<u>89 18</u>	SINGER	1691D250	2	4000	250	200	1500	1500
1	691B	<u> 59 15</u>	SINGER	1691D210, 1691D200	2	4500	250	215	1500	1500
*2	750	750	SINGER	750		7000	1 230_	1 213	1.500	

<sup>\*1</sup> A function name is displayed in order to the direction of [ $\downarrow$ ] every time it presses a [ $\downarrow$ ] key.

Note: Please refer to the "TECHNICAL INFORMATION MANUAL" for the Junction wiring, I/O signals and details.

<sup>\*2</sup> A function name is displayed in order to the direction of [↑] every time it presses a [↑] key.

11 Example of setting the program mode

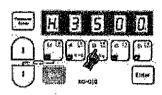


1. To change the maximum speed (Ex. to change to 3500 rotations) ...... Function setting [H.3500]

(1) Call out the program mode [P] function [H].

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0000"))

(2)



Press the [+] and [-] keys ([A], [B], [C], [D]), and set to "3500".

Entering the normal mode
For mode call: [1] + [1]

For direct number call: Set with and then press

Francist Billigs

# Description

A. The setting range of the maximum speed is 0 to 8999 rotations.

B. By pressing each of the [A], [B], [C] and [D] keys, the setting value will change between 0 and 9. (However, the [A] key is only between 1 and 8.) To lower the value, press the [A], [B], [C], [D] keys while holding down the [Shift] key.

C. The factory setting is [4000 rotations].

D. Low speed, thread trimming speed, start tacking speed, end tacking speed, medium speed and slow start speed can be set in the same manner.

Memo

The LED.D dot will flicker after the setting is changed. This indicates that the factory setting value (default value) has been changed.



(This explanation regarding the flickering dot is omitted in the following explanations.)

2. To set the standing work type ......Function setting [AT.ON]

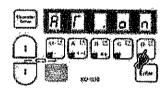
(1)

Call out the program mode [P] function [AT].

(This can be called with mode call or direct number call. Refer to pages 14 to 16.

(Direct call number = "0033"))

(2)



\*Press the [D] key and set to "ON" for the setting value.

Entering the normal mode For mode call: [] + [↑]

For direct number call: Set with



and then press



# Description

A. This is used for high speed operation during standing operations.

When setting it to turning ON, it operates at the speed with the rate which has been set with the [C] and the [D] key in normal mode regardless of the pedal stepping quantity.

B. This setting is first priority to the key switch [AUTO] of control switch panel (XC-G500 type).

C. The setting value will alternate between [OF] and [ON] with each press of the [D] key in step (2). (The factory setting is [OF])

Note: The switches for standing operation are connected as shown on 14-2-(2) page 43. Be sure to set the function [PDS] to ON in the program mode [C] as shown on page 43.

- 3. To operate Half-stitch operation with a backstitching switch ....... Function setting [IE.UDS]
  - (1)

    Call out the program mode [C] function [IE].

    (This can be called with mode call or direct number call. Refer to pages 14 to 16.

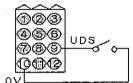
    (Direct call number = "0312"))
  - (2) I E U & 5

\*Press the [D] key and set to "UDS" for the setting value.

(3) Entering the normal mode
For mode call: [\pmu] + [\pmu]

For direct number call: Set with and then press

sewing machine connector



Description

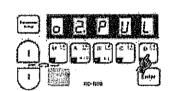
- A. Turning ON the backstitching switch connected No.9 pin in sewing machine connector, backstitching (reverse feed) will start while the sewing machine is running. Half-stitch operation will start while the sewing machine is stopped.
- B. The setting value will be changed with each press of the [D] key in step (2). (The factory setting is [S7])

Note) When using this function, always return to the normal mode before starting operations.

- 4. Outputting puller output to spare output 02 ...... Function setting [O2.PUL] + [O2C.ON] (Example: To set to half-wave 50%duty)
  - (1) Call out the program mode [C] function [O2].

    (This can be called with mode call or direct number call. Refer to pages 14 to 16.

    (Direct call number = "0421"))



(2)

(4)

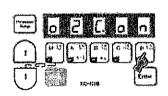
- \*Press the [D] key and set to "PUL" for the setting value.
- (3)

  Call out the program mode [C] function [O2C].

  For mode call: [1]

  For direct number call: Set with

  [423], and then press



\*Press the [D] key and set to "ON" for the setting value.

(5) Entering the normal mode

For mode call: [↓] + [↑]

For direct number call: Set with

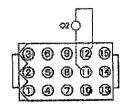
Enter

and then press

Description

A. Select puller output [PUL]. Set to connect [O2] and [PUL].

B. The spare output O2 turns ON only when the presser foot lifter is operating.



5. Setting the number of stitches to the UP position stop after fabric end is detected with optical sensor, etc. ...... Function setting C mode [IA. PSU] and P mode [PSU.10]

(Example: Setting to 10 stitches)

(1)Call out the program mode [C] function [IA].

> (This can be called with mode call or direct number call, Refer to pages 14 to 16. (Direct call number = "0300"))

\* Press the [D] key and set the value to "PSU".

(3)Set the function [IA] settings.

For mode call: [↓] + [↑]

Enter For direct number call: Set with

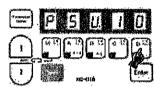
(5)

(2)

(4) Call out the program mode [P] function [PSU].

(This can be called with mode call or direct number call, Refer to pages 14 to 16.

(Direct call number = "0012"))



\* Press the [C] and [D] keys and set the value to "10".

Entering the normal mode

For mode call: [1] + [1]

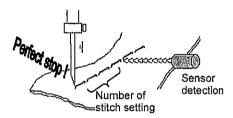
For direct number call: Set with

Enter and then press

Description

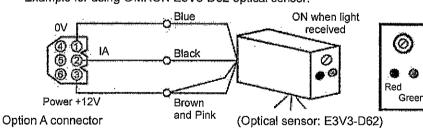
A. Set both the C mode [IA] and P mode [PSU] functions.

- B. When the output from the optical sensor, etc., connects with the No. 2 pin of the option A connector and the optical sensor turns ON, the thread will be trimmed and the needle will stop at the UP position after ten stitches.
- C. The setting value will change sequentially each time the [D] key is pressed in step (2). (The factory setting is [PSU].)
- D. The number of stitch setting range is 0 to 99 stitches.
- E. The setting value will change between 0 and 9 each time the [C] and [D] keys are pressed in step (5).



Connection example

Example for using OMRON E3V3-D62 optical sensor:



(\* Refer to the Instruction Manual enclosed with the sensor for details on handling the sensor.)

Adjusting the sensor sensitivity

- (1) Using a small screwdriver, set the sensor's sensitivity to the minimum. (Left rotation) The green LED turns ON.
- The red LED turns OFF.
- (2) Gradually increase the sensitivity.
- The red LED turns ON.
- (3) Place a piece of white paper or fabric under the

The red LED turns OFF.

6. To continue pr	esser foot lifting after the thread trimming, and to bring down the presser foot after the time set on the timer has passed Function setting [FUM.ON]+ [FU.C]
(1)	Call out the program mode [P] function [FUM].  (This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0021"))
(2)	*Press the [D] key and set to "ON" for the setting value.
(3)	Call out the program mode [P] function [FU].  For mode call: [1]  For direct number call: Set with   Enter, select the direct call number "0022",  and then press
(4)	FULL  Press the [D] key and set to "C" for the setting value.
(5)	Entering the normal mode  For mode call: [1] + [7]  For direct number call: Set with  Entering the normal mode  and then press
B. Each time of C. Each time the D. The timer tim	M](21) and [FU](22) functions. the [D] key is pressed in step (2), the set value will alternate between [OF] and [ON]. (The factory setting is [OF]) to [D] key is pressed in step (4), the set value will change in order of [M][C][A][T]. (The factory setting is [M]) to can be adjusted with the FUM timer setting [FCT](23) in the [C] mode. (The factory setting is 12 sec.)  trimming thread while sewing thick fabric, needle is stuck and fabric cannot be removed
(1)	Call out the program mode [P] function [RU].  (This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0036"))
(2)	TOU CO C
(3)	* Press the [D] key and set the value to "ON".  Entering the normal mode  For mode call: [\$\pmathrm{\p
reverse run a	rad is trimmed, the motor is run in reverse, and the needle is stopped near the needle bar top dead center. The ingle can be set with [R8] in two-degree increments between 0 and 500. (The factory setting is [30 degrees].) [R8] the processing the [1] key after setting the [R1] function in step (2).

can be set by pressing the  $[\pred]$  key after setting the [RU] function in step (2). B. The setting value will alternate between [OF] and [ON] each time the [D] key is pressed in step (2). (The factory setting is [OF].)

- 8. To display the rotation speed on the control switch panel ............ Function setting [S.\*\*\*\*]
  - (1)

    Call out the program mode [B] function [S].

    (This can be called with mode call or direct number call. Refer to pages 14 to 16.

    (Direct call number = "0200"))
  - - \* The rotation speed is indicated as "0" when the sewing machine stops.
  - - \* For example, if the maximum speed setting is 4000 rotations, the displayed speed will be [S.4000] when the pedal is fully toed down as shown above.
  - (4) Return to the normal mode after confirming

    For mode call: [] + [↑]

    For direct number call: Press twice.

# Description

- A. The rotational speed at which the sewing machine is in running is displayed.
- B. If the speed differs from the predicted speed, check the P mode's maximum speed setting [H.] or the speed adjustment setting for the normal mode.

9. To adjust the tacking accurately

(1) To adjust tacking surely ........ Function setting [D1. CST] + [CT. 10] (To set the stop time at each tacking corner to 100 msec.)

(1) Call out the program mode [D] function [D1].

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0600"))

(2)

\*Press the [D] key and set to "CST" for the setting value.

(3)Call out the program mode [D] function [CT].

For mode call: [1]

For direct number call: Set with select the number

"0602", and then press



\*Press the [C], [D] key and set to "10" for the setting value.

(5)Entering the normal mode

For mode call: [↓] + [↑]

For direct number call: Set with

Enter and then press

Description

A. Set the start/end tacking and No. of switches with Page 17 before making the above setting.

B. When using W tacking, the sewing machine will stop at each corner for 100msec., so the tacking is surely executed.



C. Each time the [D] key is pressed in step (2), the setting will change in the order of [M], [D], [N], [CST], [CSU] and [CSD]. (The factory setting is [M])

D. The setting range of the stop time is 0 to 990 msec. in 10-msec. intervals. The setting display 10 refers to 100 msec., and 20 to

200 msec. . (The factory setting is 50 msec.)

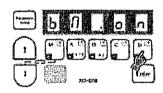
E. The setting value will change between 0 and 9 each time the [C] and [D] key is pressed in step (4). To lower the value, press the [C] or [D] key while holding down the [Shift] key.

(2) To align tacking when start/end tacking speed is less than 1000 rpm. ....... Function setting [BM. ON]

(1)Call out the program mode [D] function [BM].

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0603"))

(2)



\*Press the [D] key and set to "ON" for the setting value.

(3)Entering the normal mode

For mode call:  $[\downarrow] + [\uparrow]$ 

For direct number call: Set with

and then press

Description

A. Set function [BM] to [ON] when start/end tacking speed is less than 1000rpm

B. Set function [BM] to [OF] when start/end tacking speed is 1000rpm or higher. This BM function can be used for a rough tacking alignment of the start and end tacking.

C. Each time the [D] key is pressed in step (2), the setting will alternate between [OF] and [ON]. (The factory setting is [OF].)

Note) This function can be used for normal tacking (not to stop at each corner).

When the function setting [D1. CST] is set, this function setting [BM. ON] will be invalidated.

10. Setting the tacking stitch correction

To correct when the set number of tacking stitches does not match the number of actual stitches .......Function setting [BT1.4] + [BT2.4] + [BT3.8]

(To stitch three start and end tacking stitches (Fig. 1), but actual stitches as shown in (Fig. 2).)

- (1) Call out the program mode [D] functions [BT1] to [BT3]. (This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = from "0604" to "0606"))
- Confirm that [BT1] to [BT3] are all set to "0". If not set to "0", reset to "0". and then stitch to check the number of tacking stitches. (If the stitches does not match, correct with the following steps.)
- In Fig.2, there are four stitches at the forward section of the start tacking. Since there is one extra stitch, decrement the number of correction stitches by 1. (Point A)

Call out the program mode [D] function [BT1].

(This can be called with mode call or direct number call "604". Refer to pages 14 to 16.)



In the following table, the number of correction stitches "-1" corresponds to 4. Set [BT1] to 4.

After (3) is set (Fig. 3), there will be one less stitch at the forward section. The backward section is then incremented by one stitch for a total of four stitches. Decrement the number of correction stitches by 1. (Point B)

Call out the program mode [D] function [BT2].

For mode call: [1]

For direct number call: Set with select the number "605", and then

Enter press



In the following table, the number of correction stitches "-1" corresponds to 4. Set [BT2] to 4. (This completes correction of the start tacking section.)

In Fig. 4, the backward section of the end tacking has five stitches, which is two stitches over. Decrement the number of correction stitches by 2. (Point

Call out the program mode [D] function [BT3].

For mode call: [1]

For direct number call: Set with select the number "606", and then

Enter press

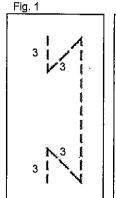


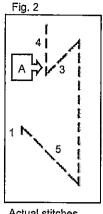
In the following table, the number of correction stitches "-2" corresponds to 8. Set [BT3] to 8. (The backward section now has three stitches. The forward section is increased to two stitches for a total of three stitches.) (Fig. 1)

(6)Entering the normal mode For mode call: [] + [↑]

For direct number call: Set with

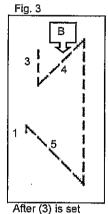
and then press

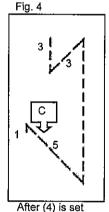


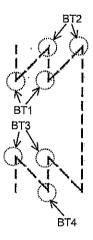


Set stitches

Actual stitches







BT1: Correction for forward start tacking. BT2: Correction for backward start tacking. BT3: Correction for backward end tacking.

BT4: Correction for forward end tacking.

Relation of number of correction stitches and setting value

					COIGHOIT		J. O. OO.	OCHOIT CO	NOTIOG GI	id octuni	g value					
Setting value	9	8	7	6	5	4	3	2	1	0	Α	В	С	D	E	F
Number of correction stitches	-2 <sup>1</sup> / <sub>4</sub>	-2	-1 <sup>3</sup> / <sub>4</sub>	-1 <sup>2</sup> / <sub>4</sub>	-11/4	-1	- <sup>3</sup> / <sub>4</sub>	- <sup>2</sup> / <sub>4</sub>	- <sup>1</sup> / <sub>4</sub>	0	+1/4	+2/4	+3/4	+1	+1 <sup>1</sup> / <sub>4</sub>	+12/4

* W. (	mple of setting counter function (Refer to the Technica /hen using down counter as a bobbin thread level counter (E(1) The current down counter value [D] is decremented by or (2) When the remaining down counter [D] reaches 0, stitching (Stitching is possible until the thread is trimmed.)  (3) When the external switch I1, set with the [C] mode functions	ndino ne ea g is p on se	g count after 10,000 stitches) ch time ten stitches are stitched. rohibited after trimming
(1)	counter value [D] value is set to the down counter value [l]  Call out the program mode [C] function [I1].  (This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0357"))	N], ar	and the next stitching is enabled.
(3)	Set the function [I1].  For mode call: [1] + [1]		* Press the [D] key and set the value to "CCD".
(4)	For direct number call: Set with  Call out the program mode [B] function [N].  (This can be called with mode call or direct number call. Refer to	(5)	
(6)	pages 14 to 16. (Direct call number = "0201"))	(7 <u>)</u>	* Press the [A] to [D] keys and set the value to "1000".
(0)	Call out the program mode [B] function [D].  For mode call: [4]  For direct number call: Set with then press Enter [202], and	(7)	* Press the [A] to [D] keys and set the value to "1000".
(8)	Call out the program mode [B] function [CDN].  For mode call: [4]  For direct number call: Set with Enter select number [210], and	(9)	
(10)	Call out the program mode [B] function [DNC].  For mode call: [4]  For direct number call: Set with	(11)	* Press the [D] key and set the value to "ST".
(12)	then press  Call out the program mode [B] function [CNU].  For mode call: [\$\delta\$]	(13)	* Press the [D] key and set the value to "ON".
	For direct number call: Set with select number [217], and then press		* Press the [C] and [D] keys and set the value to "10".
(14)	Entering the normal mode  For mode call: [‡] + [↑]  For direct number call: Set with		Note) To clear the down counter with the P key on the control switch panel set the following.
Descripti		<b></b> .	[C] mode function selection [IP.CCD]: Sets the P key on the control switch panel to the counter clear signal [CCD].
[I1.CCI [B] mode t [N.1000	Direction selection  Direction selection  Signal input I1 to the counter clear signal [CCD].  Function selection  Oi: Sets the down counter value. The down counter counts (subtract  Oi: Current down counter value.	s) froi	m the value set here.

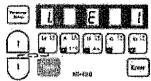
[D.1000]: Current down counter value.
[CDN.ST]: The down counter is decremented by one each time the number of stitches set in [CNU] is stitched. (In this example, [CNU] is set to 10, so the down counter is decremented by one each time 10 stitches are stitched.)
\* [DSC.ST]: When the current down counter [D] reaches 0, the next stitching is prohibited after trimming. The next stitching is enabled when the external input 11, set with [C] mode function selection, turns ON.
[DNC. ON]: Down counter is validated. Set this to ON to use the down counter.
[CNU.10]: Set this to count every 10 stitches.

Items marked with an asterisk \* are the factory settings.

12. To check the error code history and input/output signal (1) How to view the error code history ......... Function setting [1.E--], [2.E--], [3.E--], [4.E--]

(1)Call out the program mode [E] function [1]. (This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0700"))

Call out function [1].



\* The last error code is displayed. (Ex. error code E1 is displayed.)

Call out function [3].



 The third to last error code is displayed. (Ex. error code E8 is displayed.)

(6)Entering the normal mode For mode call: [1] + [1]

For direct number call: Press

# Description

A. 4 times errors from the last to the fourth error can be viewed.

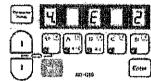
B. Refer to page 44 for the error code.

(3)Call out function [2].



The second to last error code is displayed. (Ex. error code E3 is displayed.)

(5) Call out function [4].



The fourth to last error code is displayed. (Ex. error code E2 is displayed.)

(2) To check input signals

.......... Function setting [IA] - [IL], [I1] - [I5], [IP] - [IR], [ECA], [ECB], [UP], [DN], [DR], [VC], [V2]

(1) Call out the input signal in program mode [E] to be checked. (In this example, call out [IA].)

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "0706"))

(2)

\* Turn the input for the input terminal to be viewed ON and OFF, and confirm that the LED C.D changes between [ON] and [OF].

\* If the input to be viewed is UP or DN, turn the sewing machine shaft. If ECA or ECB, turn the motor shaft.

Caution To turn the signals related to the sewing machine operation ON and OFF when the signal is turned ON and OFF, normal operation will take place.

Entering the normal mode

For mode call: [L] + [1]

For direct number call: Set with

Enter and then press

	Input signal (Factory setting)	Display
	Variable speed run signal (S1)	IG
	Thread trimming (S2)	IH
	Presser foot lifter (S3)	
	Presser foot lifter signal (F)	IF
	Thread trimmer cancel signal (TL)	ID
	Backstiting signal (S7)	ΙE
	Needle UP position priority stop signal (PSU)	IA
	Needle DOWN position priority stop signal (PSD)	1B
	Low speed run signal (S0)	C
	Input signal (IO1)	11
	Needle lift signa! (U)	12
	No setting (NO)	14
	No setting (NO)	15
	Encoder signal display (A phase)	ECA
	Encoder signal display (B phase)	ECB
	Detector signal display (UP signal)	UP
١	Detector signal display (DOWN signal)	DN
Į	Display the angle from down position	DR
ı	Display the voltage of VC	VC
l	Display the voltage of VC2	V2

A. It is possible to check whether or not input signal is wired right.

When the display is not turned [ON][OF] even if the signal is turned ON/OFF, check wiring to a control box from the signal. Note that the sewing machine will run when checking the input of signal terminals related to operation.

B. Refer to the "Connector layout" on page 42 for the input terminals, and the technical information manual for details on the input function names.

(3) To check output signal (check in operation) ........... Function setting [OAD] - [ODD], [OFD], [OPD] - [ORD], [O1D] - [O7D]

(1)Call out the output signal in program mode [E] to be checked. (In this example, call out [OAD].)

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "737"))

(2)

Wiper output (W) OBD Backstitch output (B) OCD Thread release output (L) ODD Presser foot lifter output (FU ÓFD

Output signal

(Factory setting)

\*Confirm the display ON during full pedal heeling operation

Be careful to sewing machine operation when turned ON the signal which the sewing machine operation relates to.

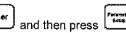
Thread trimming output (T) OAD O1 output (OT1) 01D Output for needle cooler (NCL) O2D TF output (TF) O3D

Display

Entering the normal mode

For mode call:  $[\downarrow] + [\uparrow]$ 

For direct number call: Set with



# Description

A. This is useful for setting the various items and checking the operation before connecting the output to the solenoid, etc.

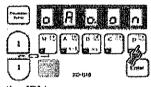
B. Refer to the "Connector Layout" on page 42 for the output terminals, and to the Technical information manual for details on the output function names.

(4)To check an output terminal (To forcibly turn the output ON without running the sewing machine.) .......... Function setting [OAO] - [ODO], [OFO], [OPO] - [ORO], [O1O] - [O7O]

(1)Call out the output signal in program mode [E] to be checked. (In this example, call out [OAO].)

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "752"))

(2)



\* Output signal is turned ON while pressing the [D] key. Note) While displaying this function, sewing machine can not operate.

Output signal (Factory setting)	Display		
Thread trimming output (T)	OAO		
Wiper output (W)	ОВО		
Backstitch output (B)	oco		
Thread release output (L)	QDO .		
Presser foot lifter output (FU)	OFO		
O1 output (OT1)	010		
Output for needle cooler (NCL)	020		
TF output (TF)	030		

(3)Entering the normal mode For mode call: [1] + [1]

For direct number call: Set with and then press

Description

A. This is useful for checking that the wiring to the solenoid, etc., from the control box's output terminals is correct.

B. Refer to the "Connector Layout" on page 42 for the output terminals, and to the Technical information manual for details on the output function names.

(1)



\* Enter program mode [R]  $([\downarrow] + [B] + [C] keys)$ 

(3)



\* [RESET] will flicker when the [D] key is held down, and the reset process will be executed.

(2)



\* Program mode [R] will be entered.

(4)



\* The data will be set to the factory setting when the [D] key is pressed over 2 seconds or more, and then the normal mode will be returned to. (Process is completed)

# Description

A. All settings will be returned to the factory settings when the [D] key is held down for two or more seconds while [RESET] is displayed. The display will return to the normal mode.

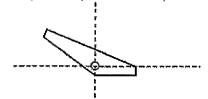
B. To return to the normal mode from the [RESET] display without executing the reset process, press the [↑] key while holding down the [1] key. In this case, the settings will not be returned to the factory setting.

# Caution

When this function is set, the contents of all settings to this point will be cleared, and will return to the factory settings. Please take care when using this function.

14. To adjust the position data for the lever unit ... Function setting [VCSET] (When error "MA" is displayed)

(1) Set the pedal (lever unit) to the neutral position.



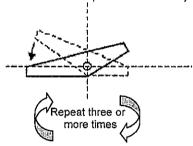
(3)



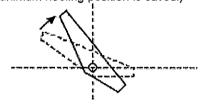
[VCSET] will flicker when the [D] key is held down.

(5) Fully toe down the pedal (lever unit).

(The maximum toe down position is saved.)



Fully heeling the pedal (lever unit). (The maximum heeling position is saved.)



(2) Call out the program mode [Q] function [VCSET].

(This can be called with mode call or direct number call. Refer to pages 14 to 16. (Direct call number = "1427"))



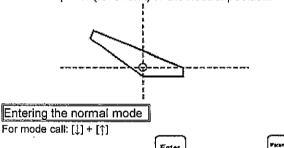
\* Enter program mode [Q] ([↓] + [A] + [C] keys)

(4)



The display will change to [START]. (The neutral position is saved at this point.)

(6) Return the pedal (lever unit) to the neutral position.



For direct number call: Set with

Enter an

and then press

Description

The lever's neutral, toe down and heeling positions can be adjusted.

If the [D] key is held down when the pedal is at the neutral position, the display will flicker and change to the [START] display. (The neutral position is saved at that point.)

After that, repeat the pedal toe down and heeling operation three or more times. (The maximum toe down position and maximum heeling position are saved at this time.)

When finished, always return the pedal to the neutral state, and then return to the normal mode.

Caution

- If the position data for the lever unit is faulty, the error "MA" will appear.

The error "MA" is released by pressing D key.

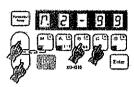
Confirm the neutral position of the pedal (lever unit), and then save the neutral, toe down and heeling positions again with the above steps.

- To enter the [VCSET] state with mode call and then return to the normal mode, press down the [↓] and [↑] keys simultaneously. The lever unit's neutral, toe down and heeling positions are not adjusted in this case.

How to use the program mode [I]
 To save the setting data ........... Function setting [SAVE\*]

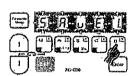
 (Two types of data, [SAVE1] and [SAVE2] can be saved. The [SAVE1] data can be read out with [LOAD1], and the [SAVE2] data with [LOAD2],)

(1)



\* Enter program mode [I] ([]] + [↑] + [B] + [C] key)

(3)



\* When the [D] key is held down, [SAVE1.] will flicker, and the save process will be executed.

(2) SAUEU

I WITH ORDER

I WITH ORDER

I WITH ORDER

AUGUST Enter

\* Program mode [I] will be entered.

\* Press [D] key over 2 seconds or more, and then the normal mode will be returned to. (Process is completed)

## Description

A. The currently set data can be saved as simple settings. Saving of the data is completed when the [D] key is held down for two or more seconds while [SAVE\*] is displayed and the display returns to the normal mode.

B. To return to the normal mode from the [SAVE\*] display without saving the data, press the [↑] key while holding down the [↓] key. The set data will not be saved.

C. The saved setting data is saved in the program mode {1} simple setting [LOAD1] or [LOAD2], and can be read out by selecting [LOAD1] or [LOAD2] with program mode [1].

(As the factory setting, the [412B] data is saved in the simple settings [LOAD1] and the [280M] data is saved in the simple settings [LOAD2].)

#### Caution

When this function setting [SAVE\*] is used, the settings saved in the program mode [1] simple setting [LOAD\*] before the new data was set will all be cleared. The current setting data will be newly saved in the simple setting [LOAD\*]. Check the current setting data before starting operation.

(2)

D. Reading the setting data saved with the [SAVE\*] function

The setting data saved with the [SAVE\*] function above can be read out with the following procedure (program mode [1]).

(1)

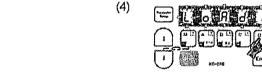


\* Enter program mode [1] ([]+[A]+[B] key)

(3)



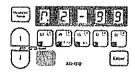
Press the [1] key and set the function to [LOAD1].



\* When the [D] key is held down, [LOAD1] will flicker, and the loading process will be executed.

\* Program mode [1] will be entered.

(5)



\* Press [D] key (2 seconds or more) to return to the normal mode. (Process is completed)



Refer to the Technical Documents for details on each function. The numbers in the table are used with the direct number call function.

L. Low speed   Coordinate   C		name	Function	No.
L. Low speed   0000		H.		0000
N. Start tacking speed 0000  W. End tacking speed 0000  M. Medium speed 0000  S. Slow start speed 0000  SLN. No. of slow start stitches 0000  SLN. Slow start operation mode 0001  SLP. Slow start when power is turned ON 0010  SHM. One shot 0011  SHM. One shot 0011  SHM. One shot 0011  PSU. No. of slitches after PSU input 0011  PSU. PSN. Restart after PSD.SEN input PSN 0011  SEN. Input sensor function valid / invalid 0013  SE. Setting stitch amount to stop by "SEN" 0021  FUM. Presser foot lift momentary 0022  FUM. Presser foot lift momentary 0022  FUM. Presser foot lift momentary 0022  FUM. Presser foot lifting output when power is 1019  DOUBLE DEAD 1019  SEN. Input sensor function valid / invalid 0013  SE. Setting stitch amount to stop by "SEN" 0022  FUM. Presser foot lifting output when power is 1019  DOUBLE DEAD 1019  SEN. Input sensor function valid / invalid 0013  SEN. Cancel presser foot lifting valid / invalid 0013  SEN. Cancel p		L.		0001
M. Medium speed 0000 S. Slow start speed 0000 S. Slow start speed 0000 SLN. No. of slow start stitches 0000 SLN. Slow start when power is turned ON 0000 SLP. Slow start when power is turned ON 0000 SH. One shot operation mode 0010 SH. One shot operation mode 0011 SHM. One shot operation mode 0011 PSU. No. of slitches after PSU input 0011 PSD. Sensor input signal PS2 operation mode 0012 SEN. Restart after PSD.SEN input PSN 0018 SEN. Input sensor function valid / invalid 0018 SE. Setting stitch amount to stop by "SEN" 0020 PSD. Input sensor function valid / invalid 0018 SE. Setting stitch amount to stop by "SEN" 0020 PSD. Time setting for FUM operation mode 0022 FU. FUM operation mode 0022 FU. FUM operation mode 0022 FU. FUM operation mode 0022 SET Interest of presser foot lifter output 0024 SET Interest of presser foot lifting with full heeling 0024 SET Interest of presser foot lifting with full heeling 0025 SET Interest of thread trimming operation 0037 Thread trimming protection signal (S6) logical 0037 Thread trimming protection signal (S6) logical 0037 TL. Thread trimming protection signal (S6) logical 0037 TL. Thread trimming operation 0037 TR. Thread trimming with reverse feed 0038 TBJ. Not used. 0037 TR. Thread trimming with reverse feed 0038 TBJ. Not used. 0037 TR. Thread trimming operation mode 004 TR. Thread trimming operation mode		T.	Thread trimming speed	0002
M. Medium speed S. Slow start speed SLN. No. of slow start stitches SLM. Slow start operation mode SLP. Slow start when power is turned ON SH. One shot SH. One shot operation mode OOI SH. One shot operation mode OOI SH. One shot operation mode OOI PSU. No. of stitches after PSU input PSU. No. of stitches after PSD input PSD. Sensor input signal PS1 operation mode OOI PSD. No. of stitches after PSD input PSD. Sensor input signal PS1 operation mode OOI PSD. No. of stitches after PSD input PSD. Sensor input signal PS1 operation mode OOI PSD. No. of stitches after PSD operation mode OOI PSD. No. of stitches after PSD operation mode OOI PSD. No. of stitches after PSD operation mode OOI PSD. No. of stitches after PSD operation mode OOI PSD. PSD. Restart after PSD.SEN input PSN OOI PSD. PSD. Restart after PSD.SEN input PSN OOI PSD. PILL Wave time of presser foot lifter output OOI PSD. FUM operation mode FO. Full wave time of presser foot lifter output OOI PSD. Presser foot lifting output chopping duty OOI PFU. Presser foot lifting output when power is turned ON FL. Cancel the presser foot lifting with full heeling OOI PSD. Presser foot lifting output when power is turned ON FL. Cancel of thread trimming operation OOI TL. Thread trimming protection signal (S6) logical changeover AT. Autor-stop of preset stitch sewing before trim RU. Thread trimming mode OOI TL. Thread trimming with reverse feed OOI TSD. Not used. SCR. Full heeling, S2 signal operation mode III. Cancel of interlock after full pedal heeling OPPOS. Thread trimming with reverse feed OOI TR. Thread trimming with reverse feed OOI			Start tacking speed	0003
S. Slow start speed S.N. No. of silow start stitches S.LM. Slow start operation mode SLP. Slow start operation mode SLP. Slow start when power is turned ON SH. One shot SHM. One shot operation mode OOI SHM. One shot operation mode PSU. No. of stitches after PSU input PSD. No. of stitches after PSU input OOI PSD. Sensor input signal PS2 operation mode OOI OOI SEN. Restart after PSD.SEN input PSN OOI SEN. Input sensor function valid / invalid OOI OOI OOI OOI OOI OOI OOI OOI OOI OO				0004
SLM. No. of slow start stitches SLM. Slow start operation mode SLP. Slow start when power is turned ON SH. One shot SHM. One shot operation mode PSU. No. of stitches after PSU input PSD. No. of stitches after PSU input PSD. No. of stitches after PSU input PS1. Sensor input signal PS1 operation mode 1. No. of stitches after PS1 input PS2. Sensor input signal PS2 operation mode 2. No. of stitches after PS2 input PS3. Restart after PSD.SEN input PSN SEN. Input sensor function valid / invalid SE. Setting stitch amount to stop by "SEN" PSW. Restart after PSD.SEN input PSN SEN. Input sensor function valid / invalid SE. Setting stitch amount to stop by "SEN" FUM. Presser foot lift momentary OD: FUI. FUM operation mode FCT. Time setting for FUM operation mode FUD. Presser foot lifting output chopping duty PFU. Presser foot lifting output when power is turned ON FL. Cancel the presser foot lifting with full heeling S2L. Cancel of thread trimming operation TL. Thread trimming protection signal (S6) logical changeover AT. Automatic operation TL. Thread trimming operation S6L. Auto-stop of preset stitch sewing before trim C6L TLS. Auto-stop of preset stitch sewing before trim C7L Thread trimming with reverse feed C7L Thread trimming with reverse feed C8L Thread trimmin		M.		0005
SLM. Slow start operation mode SLP. Slow start when power is turned ON SH. One shot One shot One shot operation mode PSU. No. of stitches after PSU input One shot operation mode PSU. No. of stitches after PSD input PSD. No. of stitches after PSD input PSD. No. of stitches after PSD input PSD. Sensor input signal PS1 operation mode 1. No. of stitches after PSD input PS2. Sensor input signal PS2 operation mode O016 PS2. No. of stitches after PSD input PS2. Sensor input signal PS3 operation mode 1. No. of stitches after PS2 input O017 PSN. Restart after PSD.SEN input PSN O018 SEN. Input sensor function valid / invalid O019 SEN. Input sensor function			Slow start speed	0006
SLP. Slow start when power is turned ON O005 SH. One shot One shot One shot O016 SHM. One shot operation mode O017 SHM. One shot operation mode O017 PSU. No. of stitches after PSU input O018 PSU. No. of stitches after PSU input O019 PSU. No. of stitches after PSU input O019 PSU. No. of stitches after PSU input O011 PSU. No. of stitches after PSI input O011 PSU. No. of stitches after PSI input O011 PSU. No. of stitches after PSI input O011 PSU. Sensor input signal PS2 operation mode O019 PSU. No. of stitches after PS2 input O011 PSU. PSW. Restart after PSD.SEN input PSN O018 SEN. Input sensor function valid / invalid O018 SE. Setting stitch amount to stop by "SEN" O026 PSU. FUM. Presser foot lift momentary O027 PSU. FUM. Presser foot lift momentary O028 PSU. FUM. Presser foot lift momentary O029 PSU. FUM. Presser foot lift momentary O029 PSU. FUM. Presser foot lifting output on O029 PSU. Presser foot lifting output on O029 PSU. Presser foot lifting output when power is turned ON PSU. Cancel the presser foot lifting with full heeling O029 PSU. Cancel of thread trimming operation O039 PSU. Cancel of thread trimming operation O039 PSU. Thread trimming protection signal (SS) logical changeover AT. Automatic operation O039 TL. Thread trimming protection signal (SS) logical changeover AT. Automatic operation O039 PSU. Not used. O039 PSU. Presser run angle TB. Thread trimming with reverse feed O039 PSU. Presser run angle TB. Thread trimming with reverse feed O039 PSU. Presser run angle PSU. Presser run angle TB. Thread trimming validity at neutral pedal O049 PSU. Thread trimming validity at neutral pedal O049 PSU. Presad trimming validity at neutral pedal O049 P				0007
SH. One shot peration mode SHM. One shot operation mode PSU. No. of stitches after PSU input PSD. No. of stitches after PSD input PS1. Sensor input signal PS1 operation mode 1. No. of stitches after PS1 input PS2. Sensor input signal PS2 operation mode 2. No. of stitches after PS2 input PSN. Restart after PSD.SEN input PSN SEN. Input sensor function valid / invalid SE. Setting stitch amount to stop by "SEN" ODE FUM. Presser foot lift momentary FU. FUM operation mode FCT. Time setting for FUM operation mode FCT. Time setting for FUM operation mode FCT. Time to motor drive after presser foot lifter bring down FO. Full wave time of presser foot lifter output S3D. Delay time of presser foot signal S3 input FUD. Presser foot lifting output chopping duty PFU. Cancel the presser foot lifting with full heeling S3L. Cancel of thread trimming operation S4L. Cancel of thread trimming operation TL. Thread trimming protection signal (S6) logical changeover AT. Automatic operation TL. Thread trimming protection signal (S6) logical frimming R8. RU reverse run needle lifting after thread trimming R8. RU reverse run angle TB. Not used. S2R. Full heeling, S2 signal operation mode IL. Cancel of interlock after full pedal heeling OPPOS. Thread trimming with reverse feed TRB. Not used. OPPOS. Thread trimming wild at neutral pedal POS. Thread trimming wild at neutral pedal POS. Thread trimming wild at neutral pedal POS. Thread trimming wild at neutral pedal POPP. Operation when power is turned ON during 1 position setting. C8. Needle stop position before fabric OPPOS. Needle stop position before fabric OPPOS. One stiting sensor "ISEN" input function OPPOS. On start angle of virtual "TM" S8. On start angle of virtual "TM" S8				8000
SHM. One shot operation mode PSU. No. of stitches after PSU input PSD. No. of stitches after PSD input PS1. Sensor input signal PS1 operation mode 1. No. of stitches after PS1 input PS2. Sensor input signal PS2 operation mode 1. No. of stitches after PS1 input PS2. Sensor input signal PS2 operation mode 1. No. of stitches after PS2 input PS2. Sensor input signal PS2 operation mode PS2. No. of stitches after PS2 input PSN. Restart after PSD.SEN input PSN SEN. Input sensor function valid / invalid SE. Setting stitch amount to stop by "SEN" ODE FUM. Presser foot lift momentary ODE FUI. FUM operation mode FCT. Time setting for FUM operation mode FCT. Time setting for FUM operation mode FCT. Time setting for FUM operation mode FO. Full wave time of presser foot lifter output S3D. Delay time of presser foot signal S3 input FUD. Presser foot lifting output when power is turned ON FL. Cancel the presser foot signal S3 input FUD. Presser foot lifting output when power is turned ON FL. Cancel the presser foot signal S3 input FUD. Presser foot lifting output when power is turned ON FL. Cancel of thread trimming operation S3L. Cancel presser foot lifting with full heeling S2L. Cancel of thread trimming operation S6L. Thread trimmer cancel Thread trimmer cancel TLS. Auto-stop of presset stitch sewing before trim R0. Reverse run needle lifting after thread trimming R8. RU reverse run angle TB. Thread trimming with reverse feed O034 TBJ. Not used. S2R. Full heeling, S2 signal operation mode IL. Cancel of interlock after full pedal heeling TR. Thread trimming with reverse feed O040 D905. Thread trimming validity at neutral pedal P1P. Operation when power is turned ON during 1 position setting. C8. Needle stop position before fabric K8. Upposition setting C9. Needle stop position before fabric C8. Needle stop position before fabric C940 C950 C960 C960 C960 C960 C960 C960 C960 C96				0009
PSU. No. of stitches after PSU input PSD. No. of stitches after PSD input PSD. No. of stitches after PSD input O015 PS1. Sensor input signal PS1 operation mode 1. No. of stitches after PS1 input O016 PS2. Sensor input signal PS2 operation mode 2. No. of stitches after PS2 input O017 PSN. Restart after PSD.SEN input PSN SEN. Input sensor function valid / invalid O018 SE. Setting stitch amount to stop by "SEN" FUM. Presser foot lift momentary O029 FUM. Presser foot lift momentary O029 FUM. Presser foot lift momentary O029 FUM. Presser foot lift momentary O030 FUM. Presser foot lifting or FUM operation mode FCT. Time setting for FUM operation mode O031 FUM. Presser foot lifting or FUM operation mode FCT. Time to motor drive after presser foot lifter bring down FO. Full wave time of presser foot lifter output O032 S3D. Delay time of presser foot signal S3 input FUD. Presser foot lifting output chopping duty O033 FUM. Presser foot lifting output when power is turned ON FL. Cancel the presser foot lifting with light heeling O034 S3L. Cancel presser foot lifting with light heeling O035 S2L. Cancel of thread trimming operation O036 TL. Thread trimming protection signal (S6) logical changeover AT. Automatic operation O037 TLS. Auto-stop of preset stitch sewing before trim RV. Reverse run needle lifting after thread Trimming R8. RV reverse run angle O036 TBJ. Not used. O037 TRB. Thread trimming with reverse feed O038 TBJ. Not used. O039 TRB. Thread trimming mode O047 POS. Thread trimming mode O049 POS. Thread trimming walidity at neutral pedal O049 POS. Thread trimming walidity at neutral pedal O040 POPP. Operation when power is turned ON during 1 position setting.  C8. Needle stop position before fabric O040 R8. Reverse run angle from DOWN position to UP position UP position S9. On angle of virtual "TM" O040 SNM. Setting sensor "SEN" input function O040 SNM. Setting sensor "SEN" input function O050 SNM. Setting sensor "SEN" input function O050 SNM. Setting sensor "SEN" input function O050 SNM. Setting sensor "SEN" input				0010
PSD. No. of stitches after PSD input PS1. Sensor input signal PS1 operation mode 1. No. of stitches after PS1 input PS2. Sensor input signal PS2 operation mode 2. No. of stitches after PS2 input PSN. Restart after PSD.SEN input PSN SEN. Input sensor function valid / invalid SE. Setting stitch amount to stop by "SEN" O022 FUM. Presser foot lift momentary FUM. Presser foot lifting output when power is turned ON FL. Cancel the presser foot signal S3 input look FUM. Cancel presser foot lifting with full heeling look FUM. Cancel of thread trimming operation FUM. Thread trimming protection signal (S6) logical changeover AT. Automatic operation AT. Automatic operation FUM. Reverse run needle lifting after thread lifting lif				0011
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TB. Thread trimming with reverse feed 0038 TBJ. Not used. 0038 S2R. Full heeling, S2 signal operation mode 0046 IL. Cancel of interlock after full pedal heeling 0047 TR. Thread trimming mode 0042 POS. Thread trimming validity at neutral pedal 0048 P1P. Operation when power is turned ON during 1 position setting. P2P. Operation when power is turned ON during 2 position setting. C8. Needle stop position before fabric 0046 K8. Reverse run angle from DOWN position to UP position E8. On angle of virtual "TM" 0047 S8. On start angle of virtual "TM" 0048 SNM. Setting sensor "SEN" input function 0056 KD. Virtual down setting 005 KDU. Virtual width of up and down signal 0056 PSJ. Not used. 0056		R8.		0037
TBJ. Not used. 0038 S2R. Full heeling, S2 signal operation mode 0046 IL. Cancel of interlock after full pedal heeling 0047 TR. Thread trimming mode 0042 POS. Thread trimming validity at neutral pedal 0043 P1P. Operation when power is turned ON during 1 position setting. 0044 P2P. Operation when power is turned ON during 2 position setting. 0046  K8. Needle stop position before fabric 0046 K8. Reverse run angle from DOWN position to UP position UP position 0047 S8. On angle of virtual "TM" 0046 S8. On start angle of virtual "TM" 0047 SNM. Setting sensor "SEN" input function 0056 KD. Virtual down setting 005 KDU. Virtual width of up and down signal 0056 PSJ. Not used. 0056				0038
S2R. Full heeling, S2 signal operation mode  IL. Cancel of interlock after full pedal heeling  O44  TR. Thread trimming mode  POS. Thread trimming validity at neutral pedal  P1P. Operation when power is turned ON during 1 position setting.  P2P. Operation when power is turned ON during 2 position setting.  C8. Needle stop position before fabric  K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM"  S8. On start angle of virtual "TM"  SNM. Setting sensor "SEN" input function  KD. Virtual down setting  KDU. Virtual width of up and down signal  PSJ. Not used.  O44  O44  O45  O46  O47  O47  O47  O48  O48  O49  O49  O49  O49  O49  O49				0039
IL. Cancel of interlock after full pedal heeling TR. Thread trimming mode  POS. Thread trimming validity at neutral pedal  P1P. Operation when power is turned ON during 1 position setting.  P2P. Operation when power is turned ON during 2 position setting.  C8. Needle stop position before fabric  C8. Needle stop position before fabric  C9040  K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM"  S8. On start angle of virtual "TM"  SNM. Setting sensor "SEN" input function  KD. Virtual down setting  KDU. Virtual width of up and down signal  PSJ. Not used.  D8. Needle DOWN position stop angle			Full heeling, S2 signal operation mode	0040
TR. Thread trimming mode  POS. Thread trimming validity at neutral pedal  P1P. Operation when power is turned ON during 1 position setting.  P2P. Operation when power is turned ON during 2 position setting.  C8. Needle stop position before fabric  K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM"  S8. On start angle of virtual "TM"  SNM. Setting sensor "SEN" input function  KD. Virtual down setting  KDU. Virtual width of up and down signal  PSJ. Not used.  O040  O040  O050  KD. Virtual width of up and down signal  O050  O0				0041
POS. Thread trimming validity at neutral pedal 0043 P1P. Operation when power is turned ON during 1 position setting.  P2P. Operation when power is turned ON during 2 position setting.  C8. Needle stop position before fabric 0046 K8. Reverse run angle from DOWN position to UP position E8. On angle of virtual "TM" 0046 S8. On start angle of virtual "TM" 0046 SNM. Setting sensor "SEN" input function 0056 KD. Virtual down setting 005 KDU. Virtual width of up and down signal 0056 PSJ. Not used. 0056			Thread trimming mode	0042
P1P. Operation when power is turned ON during 1 position setting.  P2P. Operation when power is turned ON during 2 position setting.  C8. Needle stop position before fabric 0040  K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM" 0040  S8. On start angle of virtual "TM" 0040  SNM. Setting sensor "SEN" input function 0050  KD. Virtual down setting 0050  KDU. Virtual width of up and down signal 0050  PSJ. Not used. 0050  D8. Needle DOWN position stop angle 0050		POS.	Thread trimming validity at neutral pedal	0043
P2P. Operation when power is turned ON during 2 position setting.  C8. Needle stop position before fabric 0046  K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM" 0046  S8. On start angle of virtual "TM" 0046  SNM. Setting sensor "SEN" input function 0056  KD. Virtual down setting 005  KDU. Virtual width of up and down signal 0056  PSJ. Not used. 0056  D8. Needle DOWN position stop angle 0056		P1P.	Operation when power is turned ON during 1	0044
C8. Needle stop position before fabric 0040  K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM" 0040  S8. On start angle of virtual "TM" 0040  SNM. Setting sensor "SEN" input function 0050  KD. Virtual down setting 0050  KDU. Virtual width of up and down signal 0050  PSJ. Not used. 0050  D8. Needle DOWN position stop angle 0050		P2P.	Operation when power is turned ON during 2	0045
K8. Reverse run angle from DOWN position to UP position  E8. On angle of virtual "TM" 0048  S8. On start angle of virtual "TM" 0049  SNM. Setting sensor "SEN" input function 0058  KD. Virtual down setting 005  KDU. Virtual width of up and down signal 0059  PSJ. Not used. 0059  D8. Needle DOWN position stop angle 0059			position setting.	
No.   UP position   D04:		l	Reverse run angle from DOWN position to	
S8. On start angle of virtual "TM" 0048 SNM. Setting sensor "SEN" input function 0058 KD. Virtual down setting 005 KDU. Virtual width of up and down signal 0058 PSJ. Not used. 0058 D8. Needle DOWN position stop angle 0058		K8.	UP position	0047
S8. On start angle of virtual "TM" 0048 SNM. Setting sensor "SEN" input function 0056 KD. Virtual down setting 005 KDU. Virtual width of up and down signal 0056 PSJ. Not used. 0056 D8. Needle DOWN position stop angle 0056	[	E8.	On angle of virtual "TM"	0048
SNM. Setting sensor "SEN" input function 0050 KD. Virtual down setting 005 KDU. Virtual width of up and down signal 0050 PSJ. Not used. 0050 D8. Needle DOWN position stop angle 0050			On start angle of virtual "TM"	0049
KD. Virtual down setting 005 KDU. Virtual width of up and down signal 005 PSJ. Not used. 005 D8. Needle DOWN position stop angle 005		SNM.	Setting sensor "SEN" input function	0050
KDU. Virtual width of up and down signal 005: PSJ. Not used. 005: D8. Needle DOWN position stop angle 005		KD.	Virtual down setting	0051
PSJ. Not used. 005:  D8. Needle DOWN position stop angle 005:				0052
		PSJ.		0053
I live live with the second control of the s	1	D8.		0054
U8.   Needle UP position stop angle 005		U8.	Needle UP position stop angle	0055

	name		
		Function	No.
	GA. PDC.	Gain high/low selection Pedal curve	0100
_	AC.	Acceleration time simple setting	0101
A mode (For servo motor) : [t]+[A] key	ACT.	Acceleration time	0102
X	DC.	Deceleration time simple setting	0104
₹	DCT.	Deceleration time	0105
<u>+</u> ,	SC.	S-character cushion	0106
=	SCT.	S-character cushion time setting	0107
$\sim$	S2M.	Full heeling S2 signal operation mode when	0108
ᅙ		power is turned on or after thread trimming	
일	PL.	Sewing machine shaft/motor shaft speed	0109
n n	MR.	setting selection Setting motor pulley diameter	0110
۶۱	SR.	Setting sewing machine pulley diameter	0111
ğ		Random stop is available without thread	
<u>.</u>	NOS.	trimming.	0112
ıº l	STM.	First priority stop => speed control	0114
	BKT.	Brake time	0115
용	B8.	Weak brake angle	0116
읟	BNR.	Reduction of weak brake sound	0117
5	BKS.	Weak brake force	0118
~	BKM.	Weak brake mode	0119
	BK.	Weak brake	0120
e e	S. N.	Display sewing speed Down counter setting count amount	0200 0201
쏫	D.	Down counter display count amount	0201
<u>m</u>	P.	Up counter setting count amount	0202
<u>+</u>	U.	Up counter display count amount	0204
$\Rightarrow$	CUP.	Up counter the selection of setting mode	0205
	USC.	Up counter the selection of counter operation	0206
lay	UCM.	Up counter changing sewing pattern	0207
gs	UPC.	Up counter valid / invalid	0208 -
q	NXU.	Up counter operation after counting over	0209
96	CDN.	Down counter the selection of setting mode	0210
ιlsμ	DSC.	Down counter the selection of counter	0211
je	DCM.	operation  Down counter changing sewing pattern	
υoα			0212
or cour	DNC.	Down counter valid / invalid	0213
(For cour	DNC. NXD.	Down counter valid / invalid  Down counter operation after counting over	0213 0214
de (For cour	DNC.	Down counter valid / invalid	0213
ode (For cour	DNC. NXD. PCM. PRN. CNU.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch	0213 0214 0215
mode (For counter/speed display) : [↓]+[B] key	DNC. NXD. PCM. PRN. CNU. CCI.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)	0213 0214 0215 0216
B mode (For cour	DNC. NXD. PCM. PRN. CNU. CCI. PMD.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch	0213 0214 0215 0216 0217 0218 0219
	DNC. NXD. PCM. PRN. CNU. CCI.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)	0213 0214 0215 0216 0217 0218
Ω	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch	0213 0214 0215 0216 0217 0218 0219 0220
Ω	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data): [1]+[↑]+[B]  Function	0213 0214 0215 0216 0217 0218 0219 0220
Ω	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  e [I] (Save mode of the setting data ): [↓]+[↑]+[B]  Function  Save mode of the setting data 1	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key
Ω	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  e [I] (Save mode of the setting data ): [↓]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Ω	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Ω	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [↓]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  [R] (Reset): [↓]+[B]+[C] key	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  e [I] (Save mode of the setting data ): [↓]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  e [R] (Reset): [↓]+[B]+[C] key  Function	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  e [I] (Save mode of the setting data ): [1]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  e [R] (Reset): [1]+[B]+[C] key  Function  Reset	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET.	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[7]+[8]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  [R] (Reset): [1]+[8]+[C] key  Function  Reset  [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[7]+[8]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  [R] (Reset): [1]+[8]+[C] key  Function  Reset  [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. GCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  [R] (Reset): [1]+[B]+[C] key  Function  Reset  [1] (Mitsubishi sewing machine): [1]+[A]+[B] key  Function  LS2-1280-M1T(W)	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No. - - - No. - - - No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  e [I] (Save mode of the setting data ): [1]+[↑]+[B]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  e [R] (Reset): [1]+[B]+[C] key  Function  Reset  e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke  Function  LS2-1280-M1T(W)  :	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No.
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[↑]+[B] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[B]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. GCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1 gram mod	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  [I] (Save mode of the setting data ): [1]+[7]+[8]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  [R] (Reset): [1]+[8]+[C] key  Function  Reset  [1] (Mitsubishi sewing machine): [1]+[A]+[B] ker  Function  LS2-1280-M1T(W)  :  Load of the saved setting data1  e [2] (Chain stitch sewing machine): [1]+[C]+[D]	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1 gram mode name	Down counter valid / invalid  Down counter operation after counting over  Counter condition turning on power switch  Setting Thread trimming times "N"  Setting Number of stitches "N"  Count modification (to use IO1, IO2)  Display condition turning on power switch  Reset for Up / Down counter during operation  e [I] (Save mode of the setting data ): [1]+[7]+[8]  Function  Save mode of the setting data 1  Save mode of the setting data 2  Copy of the current data  Copy of user's 1 data  Copy of user's 2 data  e [R] (Reset): [1]+[8]+[C] key  Function  Reset  e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke  Function  LS2-1280-M1T(W)  : Load of the saved setting data1  e [2] (Chain stitch sewing machine): [1]+[C]+[D]  Function	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. GCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1 gram mod	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[1]+[8]  Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[8]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No No No No No
Prog	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1 gram mode name YU2 ;	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[7]+[8] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[8]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class :	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No
Pros	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1 gram mode name YU2 : JMH	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[↑]+[B] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[B]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class : JUKI	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No, No,
Pros	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. gram mode name SAVE1 SAVE2 CCR CU1 CU2 gram mode name RESET. gram mode name 280M : LOAD1 gram mode name YU2 : JMH	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[1]+[8] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[8]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class : JUKI e [3] (other lock stitch sewing machine): [1]+[A]+	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No No
Pros	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. Gram mode name SAVE1 SAVE2 CCR CU1 CU2 Gram mode name RESET. Gram mode name 280M : LOAD1 Gram mode name YU2 : JMH gram mode name	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[1]+[8] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[8]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class : JUKI e [3] (other lock stitch sewing machine): [1]+[A]+	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No, No,
Pros	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. Gram mode name SAVE1 SAVE2 CCR CU1 CU2 Gram mode name RESET. Gram mode name 280M : LOAD1 Gram mode name YU2 : JMH gram mod	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[1]+[8] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[8]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class : JUKI e [3] (other lock stitch sewing machine): [1]+[A]+ Function DÜRKOPP ADLER 697-15000 class	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No No
Pros	DNC. NXD. PCM. PRN. CNU. CCI. PMD. CCM. Gram mode name SAVE1 SAVE2 CCR CU1 CU2 Gram mode name RESET. Gram mode name 280M : LOAD1 Gram mode name YU2 : JMH gram mode name	Down counter valid / invalid Down counter operation after counting over Counter condition turning on power switch Setting Thread trimming times "N" Setting Number of stitches "N" Count modification (to use IO1, IO2) Display condition turning on power switch Reset for Up / Down counter during operation e [I] (Save mode of the setting data ): [1]+[1]+[8] Function Save mode of the setting data 1 Save mode of the setting data 2 Copy of the current data Copy of user's 1 data Copy of user's 2 data e [R] (Reset): [1]+[8]+[C] key Function Reset e [1] (Mitsubishi sewing machine): [1]+[A]+[B] ke Function LS2-1280-M1T(W) : Load of the saved setting data1 e [2] (Chain stitch sewing machine): [1]+[C]+[D] Function YAMATO VC2600, VC2700 class : JUKI e [3] (other lock stitch sewing machine): [1]+[A]+	0213 0214 0215 0216 0217 0218 0219 0220 +[C] key No No No   No

	IA. IAL. IAA. IB. IBL.	IA input function selection IA input logic changeover IA input alternating operation IB input function selection	0300 0301 0302
	IAA. IB. IBL.	IA input alternating operation	
	IB. IBL.		0302
	IBL.		
		IB input logic changeover	0303
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İ	ICL.	IC input logic changeover	0307
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	ID.	ID input function selection	0309
	IDL,	ID input logic changeover	0310
İ	IDA.	ID input alternating operation	0311
	IE.	IE input function selection	0312
	IEA.	IE input logic changeover IE input alternating operation	0313
	IF.	IF input function selection	0314 0315
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>	RFN.	RS F/F reset stitch amount for IF	0320
ke	IG. IGL.	IG input function selection	0321
7	IGL.	IG input logic changeover IG input alternating operation	0322
날	IH.	IH input function selection	0323 0324
<b>-</b> [-]	IHL.	IH input logic changeover	0325
. [	IHA.	IH input alternating operation	0326
اق	II.	Il input function selection	0327
유	IIL.	Il input logic changeover	0328
일	IIA.	Il input alternating operation	0329
Ę	IJ,	Not used.	0330
요	IJL.	Not used.	0331
<u>_</u>	IJA. IK.	Not used.	0332
Ë	IKL,	Not used. Not used.	0333
.jč	IKA.	Not used.	0334
=	IL.	Not used.	0336
효	ILL.	Not used.	0337
5	ILA.	Not used.	0338
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효	IML.	IM input logic changeover	0340
· <u>=</u>	IMA.	IM input alternating operation	0341
암	IN. INL.	IN input function selection IN input logic changeover	0342
Ħ	INA.	IN input logic changeover IN input alternating operation	0343
Se	10.	IO input function selection	0344 0345
ᡖ	IOL.	IO input logic changeover	0346
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<u>o</u> [	IP.	IP input function selection	0348
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ပ	IQ.	IQ input function selection	0351
ŀ	IQL, IQA.	IQ input logic changeover	0352
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ŀ	IRL.	IR input logic changeover	0355
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Ì	11.	I1 input function selection	0357
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	I1M.	Setting the function for I1	0359
ļ	110	Special setting for input signal "I1"	0360
ļ	11F	Special setting for input signal "I1" is ON	0361
ŀ	IIC ICT	RS F/F clear setting	0362
-	F1P	RS F/F delay time setting Input signal I1 virtual F/F circuit operation 1	0363
-	F1C	Input signal I1 virtual F/F circuit operation 2	0364 0365
ŀ	F1S	Input signal I1 virtual F/F circuit operation 3	0366
- 1	R1S	Set condition of RS F/F for 11	0367
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}	R2S	RS F/F delay time setting Set condition of RS F/F for I2	0374
ŀ	R2R	Reset condition of RS F/F for I2	0375
r	R2N	RS F/F reset stitch amount for I2	0376 0377

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	i4.	I4 input function selection	0378
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	16.	I6 input function selection	0384
	16L.	I6 input logic changeover	0385
	16A.		
		16 input alternating operation	0386
	17.	17 input function selection	0387
	17L.	17 input logic changeover	0388
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	OA.	OA output function selection	0390
	OAL.	OA output logic changeover	0391
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	DA.	OA output delay time	0394
	OB.	OB output function selection	0395
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$\rightarrow$		OB output forced OFF	0398
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Ö.	OCL.	OC output logic changeover	0401
王	OCC.	OC output chopping operation	0402
⋽.	OCT.	OC output forced OFF	0403
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tting input/output signal to function): [↓]+[C] key	O1C. O1T. D1. O2.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection	0417 0418 0419 0420 0421
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r setting input/	O1C. O1T. D1. O2. O2L. O2C.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function	0417 0418 0419 0420 0421 0422 0423
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(For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425
le (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426
ode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425
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S mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428
C mode (For setting input/	01C. 01T. D1. 02. 02L. 02C. 02T. D2. 03. 03L. 03C. 03T.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output delay time O4 output function selection O4 output function selection	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output delay time O4 output function selection O4 output function selection O4 output logic changeover O4 output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output function selection O4 output function selection O4 output function selection O4 output logic changeover O4 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0434
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output chopping function O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output forced OFF O4 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0434 0435
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output delay time O5 output function selection O5 output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output function selection O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O4 output delay time O5 output delay time O5 output function selection O5 output logic changeover O5 output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0434 0435 0436 0437
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output delay time O5 output logic changeover O5 output logic changeover O5 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output delay time O5 output logic changeover O5 output logic changeover O5 output forced OFF O5 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0434 0435 0436 0437 0438
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D4. O4L. O4T. D4. O5. O5L. O5T. D5. O6.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output delay time O5 output logic changeover O5 output forced OFF O5 output forced OFF O5 output forced OFF O5 output forced OFF O5 output forced OFF O6 output delay time O6 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O4 output forced OFF O5 output delay time O5 output logic changeover O5 output function selection O5 output logic changeover O5 output forced OFF O5 output forced OFF O6 output forced OFF O6 output forced OFF O6 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4L. O4T. D4. O5. O5I. O5T. D5. O6. O6L. O6C.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O4 output forced OFF O4 output delay time O5 output delay time O5 output function selection O5 output forced OFF O5 output forced OFF O5 output forced OFF O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O5. O5. O5T. D5. O6. O6L. O6C. O6T. D6.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O4 output forced OFF O5 output forced OFF O5 output forced OFF O5 output forced OFF O5 output delay time O6 output delay time O6 output logic changeover O6 output function selection O6 output function selection O6 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4L. O4T. D4. O5. O5I. O5T. D5. O6. O6L. O6C.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output function selection O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output logic changeover O5 output function selection O5 output forced OFF O5 output function selection O5 output forced OFF O5 output forced OFF O6 output delay time O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output chopping function O6 output delay time O7 output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6C. O6T. D6. O7L.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output function selection O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output logic changeover O5 output function selection O5 output forced OFF O5 output function selection O5 output forced OFF O5 output forced OFF O6 output delay time O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output chopping function O6 output delay time O7 output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0449 0440 0441 0442 0443
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6C. O6T. D6. O7L.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output chopping function O2 output forced OFF O2 output delay time O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O4 output forced OFF O4 output delay time O5 output forced OFF O5 output function selection O5 output logic changeover O5 output forced OFF O6 output delay time O6 output delay time O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output delay time O7 output delay time O7 output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5T. D5. O6. O6L. O6C. O6T. D6. O7.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O4 output forced OFF O4 output function selection O5 output forced OFF O5 output function selection O5 output forced OFF O5 output forced OFF O5 output delay time O6 output delay time O6 output delay time O6 output delay time O6 output delay time O6 output logic changeover O6 output logic changeover O6 output delay time O7 output delay time O7 output delay time O7 output function selection O7 output logic changeover O7 output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6C. O6T. D6. O7L. O7C. O7T.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O5 output delay time O5 output function selection O5 output function selection O5 output delay time O5 output delay time O6 output logic changeover O5 output function selection O6 output function selection O6 output function selection O6 output logic changeover O6 output logic changeover O6 output chopping function O6 output forced OFF O6 output delay time O7 output forced off O7 output forced off O7 output forced off O7 output chopping function O7 output chopping function	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6C. O6T. D6. O7C. O7C. O7T. D7.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O5 output delay time O5 output delay time O5 output function selection O5 output function selection O6 output logic changeover O5 output delay time O6 output function selection O6 output function selection O6 output logic changeover O6 output logic changeover O6 output logic changeover O6 output forced OFF O6 output delay time O7 output delay time O7 output forced OFF O7 output forced OFF O7 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6C. O6T. O7C. O7C. O7T. D7. OM.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output delay time O4 output logic changeover O4 output logic changeover O4 output logic changeover O5 output delay time O5 output delay time O5 output function selection O5 output function selection O5 output logic changeover O5 output function selection O6 output logic changeover O6 output function selection O6 output function selection O6 output forced OFF O6 output forced OFF O6 output delay time O7 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O7 output logic changeover O7 output logic changeover O7 output logic changeover O7 output forced OFF O7 output delay time OM output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6T. D6. O7C. O7C. O7T. D7. OM. OML.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output forced OFF O3 output function selection O3 output logic changeover O3 output chopping function O3 output delay time O4 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O5 output delay time O5 output delay time O5 output function selection O5 output logic changeover O5 output function selection O6 output logic changeover O6 output function selection O6 output forced OFF O6 output function selection O6 output forced OFF O6 output forced OFF O7 output delay time O7 output delay time O7 output forced OFF O6 output delay time O7 output delay time O7 output forced OFF O7 output delay time O7 output logic changeover O7 output forced OFF O7 output delay time OM output forced OFF O7 output delay time OM output function selection OM output function selection OM output logic changeover	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0433 0434 0435 0436 0437 0438 0449 0440 0441 0442 0443 0443 0444 0445
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6T. D6. O7C. O7T. D7. OM. OML. OMT.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output forced OFF O3 output function selection O3 output logic changeover O3 output delay time O4 output delay time O4 output delay time O4 output logic changeover O4 output logic changeover O5 output delay time O5 output delay time O5 output delay time O5 output function selection O5 output logic changeover O5 output function selection O6 output logic changeover O6 output forced OFF O6 output function selection O6 output forced OFF O6 output function selection O7 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF O7 output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0450
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6T. D6. O7C. O7T. D7. OM. OML. OMT. DM.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output delay time O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output logic changeover O5 output delay time O5 output delay time O5 output function selection O5 output logic changeover O5 output function selection O6 output forced OFF O6 output function selection O6 output forced OFF O6 output function selection O7 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O7 output forced OFF O7 output delay time OM output function selection OM output function selection OM output logic changeover OM output forced OFF	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0430 0431 0432 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6T. D6. O7C. O7C. O7T. D7. OML. OML. OMT. DM. OM.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output forced OFF O3 output function selection O3 output logic changeover O3 output logic changeover O3 output forced OFF O3 output delay time O4 output forced OFF O4 output function selection O4 output logic changeover O4 output forced OFF O5 output delay time O5 output delay time O5 output logic changeover O5 output logic changeover O5 output function selection O6 output forced OFF O6 output delay time O6 output forced OFF O6 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O6 output delay time O7 output logic changeover O7 output logic changeover O7 output forced OFF O6 output function selection O7 output forced OFF O7 output delay time OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output delay time OM output forced OFF OM output delay time OM output forced OFF OM output delay time OM output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0450
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O6L. O6C. O6T. D6. O7C. O7L. O7C. O7L. OM. OML. OML. OML. OML.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output forced OFF O3 output function selection O3 output function selection O3 output logic changeover O3 output chopping function O3 output forced OFF O3 output delay time O4 output function selection O4 output logic changeover O4 output forced OFF O4 output delay time O5 output delay time O5 output logic changeover O5 output logic changeover O5 output function selection O6 output function selection O6 output function selection O6 output function selection O6 output logic changeover O6 output delay time O6 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output forced OFF O6 output function selection O7 output logic changeover O7 output delay time O7 output delay time O7 output delay time OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output function selection ON output function selection ON output function selection	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0429 0430 0431 0432 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0451 0462
C mode (For setting input/	O1C. O1T. D1. O2. O2L. O2C. O2T. D2. O3. O3L. O3C. O3T. D3. O4. O4L. O4T. D4. O5. O5L. O5T. D5. O6. O6C. O6T. D6. O7C. O7C. O7T. D7. OML. OML. OMT. DM. OM.	O1 output chopping function O1 output forced OFF O1 output delay time O2 output function selection O2 output logic changeover O2 output forced OFF O2 output forced OFF O2 output forced OFF O3 output function selection O3 output logic changeover O3 output logic changeover O3 output forced OFF O3 output delay time O4 output forced OFF O4 output function selection O4 output logic changeover O4 output forced OFF O5 output delay time O5 output delay time O5 output logic changeover O5 output logic changeover O5 output function selection O6 output forced OFF O6 output delay time O6 output forced OFF O6 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output delay time O7 output forced OFF O6 output delay time O7 output forced OFF O6 output delay time O7 output logic changeover O7 output logic changeover O7 output forced OFF O6 output function selection O7 output forced OFF O7 output delay time OM output forced OFF OM output forced OFF OM output forced OFF OM output forced OFF OM output delay time OM output forced OFF OM output delay time OM output forced OFF OM output delay time OM output delay time	0417 0418 0419 0420 0421 0422 0423 0424 0425 0426 0427 0428 0430 0431 0432 0433 0434 0435 0436 0437 0438 0439 0440 0441 0442 0443 0444 0445 0446 0447 0448 0449 0450 0450

	name	Function	No.
	name DN.	ON output delay time	0456
	00.	OO output function selection	0457
	OOL.	OO output logic changeover	0458
	OOT.	OO output forced OFF	0459
	DO.	OO output delay time	0460
	OP.	OP output function selection	0461
	OPL. OPT.	OP output logic changeover	0462
	DP.	OP output forced OFF OP output delay time	0463 0464
	OQ.	OQ output function selection	0465
	OQL.	OQ output logic changeover	0466
	OQT.	OQ output forced OFF	0467
	DQ.	OQ output delay time	0468
	O.R.	OR output function selection	0469
	O.RL.	OR output logic changeover	0470
	O.RT. DR.	OR output forced OFF OR output delay time	0471 0472
	PO.	Full wave output time for each output	0472
	POD.	Output chopping duty except of FU output	0473
		Forced OFF timer setting function for each	
	OTT.	output	0475
	FCT.	Time setting for FUM operation mode	0476
	A1.	Logic [AND] module input function selection	0477
e	A1L.	Logic [AND] module setting of Hi/Low logic	0478
조	A1A.	Logic [AND] module Alternate  Logic [AND] module	0479
input/output signal to function): [\]+[C] key	N1.	output function selection	0480
王	N1L.	Logic [AND] module setting of Hi/Low logic	0481
$\Rightarrow$	N2.	Logic [AND] module	0482
<del>`</del>		output function selection	
₫	N2L.	Logic [AND] module setting of Hi/Low logic	0483
ਠੁ	A2.	Logic [AND] module input function selection	0484
ב	A2L. A2A.	Logic [AND] module setting of Hi/Low logic Logic [AND] module Alternate	0485
0		Logic [AND] module	0486
<u> </u>	N3.	output function selection	0487
<u> </u>	N3L.	Logic [AND] module setting of Hi/Low logic	0488
Si	N4.	Logic [AND] module	0489
≒	}	output function selection	
ਰੂ	N4L. A3.	Logic [AND] module setting of Hi/Low logic Logic [AND] module input function selection	0490 0491
3	A3L.	Logic [AND] module setting of Hi/Low logic	0491
¥	A3A.	Logic [AND] module Alternate	0493
፬	N5.	Logic [AND] module	0494
		output function selection	0484
5	N5L.	Logic [AND] module setting of Hi/Low logic	0495
Ħ	N6.	Logic [AND] module output function selection	0496
Š	N6L.	Logic [AND] module setting of Hi/Low logic	0497
Ö	OR.	Logic [OR] module input function selection	0498
C mode (For setting	ORL.	Logic [OR] module setting of Hi/Low logic	0499
æ	ORA.	Logic [OR] module Alternate	0500
8	R1.	Logic [OR] module output function selection	0501
Ξ	R1L.	Logic [OR] module setting of Hi/Low logic	0502
S	R2.	Logic [OR] module output function selection	0503
	R2L.	Logic [OR] module setting of Hi/Low logic	0504
	CSP.	Variable speed command for digital input Variable speed command for digital input	0505
	CSG.	(Gray code)	0506
İ	LB.	Thread release + backstitch output	0507
	T1C.	Virtual output OT1 forced OFF function	0508
	T1T.	Forced OFF timer setting function for virtual	0509
		output OT1	
	T2C.	Virtual output OT2 forced OFF function Forced OFF timer setting function for virtual	0510
	T2T.	output OT2	0511
	T3C.	Virtual output OT3 forced OFF function	0512
	T3T.	Forced OFF timer setting function for virtual	
	131.	output OT3	0513
1		ON delay time setting function for virtual	0514
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	D11.	output OT1	
	D11.	OFF delay time setting function for virtual	0515
	D12.	OFF delay time setting function for virtual output OT1	
		OFF delay time setting function for virtual	0515 0516
	D12.	OFF delay time setting function for virtual output OT1 ON delay time setting function for virtual output OT2 OFF delay time setting function for virtual	0516
	D12.	OFF delay time setting function for virtual output OT1 ON delay time setting function for virtual output OT2 OFF delay time setting function for virtual output OT2	
	D12.	OFF delay time setting function for virtual output OT1 ON delay time setting function for virtual output OT2 OFF delay time setting function for virtual	0516

	name	Function	No.
	D32. OFF delay time setting function for virtual output OT3		0519
	CPK.	Feed pulse output (CP) cancel function	0520
	CP.	Setting CP pulse amount	0521
	CPC.	Prohibited angle of output CP pulse	0522
چ	PSW.	Panel switch operation prohibit	0523
₩	CKB.	O4, O5 output cancel during backtack term	0524
$\overline{}$	CPB.	CP output cancel during backtack term	0525
무	ċ	Speed setting for the [SPC] output	0526
土	D.	Speed setting for the [SPD] output	0527
	E.	Speed setting for the [SPE] output	0528
,	CNF.	F key function on control panel	0529
ğ	PDS.	Variable speed pedal changeover setting	0530
C mode : [1]+[C] key	V2C.	Speed instruction VC2 cancellation	0531
٥		14.	

	name	Function	No.
	D1.	Operation mode during tacking	0600
	D2.	Operation mode during start tack completion	0601
	CT.	Stop time at each corner during start and backtacking	0602
<u>@</u>	BM.	Tack alignment	0603
ב ב	BT1.	No. of stitch compensation for start tacking alignment	0604
mode (For tacking setting mode): [↓]+[D] key	BT2.	No. of stitch compensation for start tacking alignment	0605
le):	BT3.	No. of stitch compensation for end tacking alignment	0606
moc	BT4.	No. of stitch compensation for end tacking alignment	0607
g	BTP.	No. of tacking stitches (+) 15 stitches function	0608
ettın	вто.	No. of tacking stitches addition stitches function	0609
ğ	втт.	Full heeling function immediately after start tacking stop	0610
₹	CSJ.	Not used.	0611
<u> </u>	SPN.	The speed operation mode when both the medium speed signal and S5V signal is ON	0612
Ö	BTM.	Set table types of tacking	0613
Ē.	S7M.	Input signal S7 operation mode during preset stitching	0614
ğ	S7U.	Manual backstitch ON timing 1	0615
2	S7D.	Manual backstitch ON timing 2	0616
٥	7BD.	The OFF timing setting of output B when the backstitching signal (S7) is OFF setting.	0617
	BTN.	The maximum tacking stitches (maximum stitches is 99 stitches)	0618
	BCC.	No. of end tacking stitches during direct heeling	0619
	TLS.	Operation mode during thread trimmer cancel signal [TL] setting	0620
	BTS.	Input signal BTL quick pressing operation	0621
	BS.	Input signal SB and EB quick pressing operation	0622
	BTD.	Operation when input signal BTL is ON	0623
	BD.	Operation when input signal SB and EB tacking OFF are set	0624
	PNE.	End tacking cancel mode with input signal PSU	0625
	BZ.	The buzzer of control panel validity	0626
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1. Error code (The last error code) 2. Error code (The second to last code) 3. Error code (The fourth to last code) 4. Error code (The fourth to last code) P. Total integration time of power on 0704 M. Total integration time of power on 0705 IA. Input display 0706 IB. Input display 0706 IB. Input display 0707 IC. Input display 0708 ID. Input display 0708 ID. Input display 0709 IE. Input display 0710 IF. Input display 0710 IF. Input display 0711 IG. Input display 0711 IG. Input display 0713 III. Input display 0713 III. Input display 0714 III. Input display 0715 III. Input display 0716 III. Input display 0716 III. Input display 0716 III. Input display 0716 III. Input display 0718 III. Input display 0718 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0719 III. Input display 0720 III. Input display 0720 III. Input display 0720 III. Input display 0721 III. Input display 0721 III. Input display 0722 III. Input display 0722 III. Input display 0723 III. Input display 0724 III. Input display 0724 III. Input display 0724 III. Input display 0724 III. Input display 0725 III. Input display 0726 III. Input display 0738 III. Input display 0738 III. Input display 0748 III. Input display 0748 III. Input display 0748 III. Input display 0748 III. Input dis		Inama	Euration	l Na
2. Error code (The second to last code) 3. Error code (The fourth to last code) 4. Error code (The fourth to last code) 702 4. Error code (The fourth to last code) P. Total integration time of power on M. Total integration time of motor run 703 1A. Input display 703 1B. Input display 706 1B. Input display 707 1C. Input display 707 1D. Input display 707 1E. Input display 707 1E. Input display 707 1G. Input display	$\vdash \vdash$	name	Function  From code (The last error code)	No.
3. Error code (The third to last code)	1			
A.   Error code (The fourth to last code)   703			Error code (The third to lest code)	
P.   Total integration time of power on   0704				
M.   Total integration time of motor run   1A.   Input display   0706	ŀ			
IA.   Input display	}		Total integration time of motor run	
IB.			Input display	
IC.   Input display   0708   ID.   Input display   0719   IE.   Input display   0719   IF.   Input display   0711   IG.   Input display   0712   IH.   Input display   0713   IH.   Input display   0714   IH.   Input display   0714   IH.   Input display   0714   IH.   Input display   0715   IH.   Input display   0716   III.   Input display   0716   III.   Input display   0716   III.   Input display   0717   III.   Input display   0717   III.   Input display   0718   III.   Input display   0718   III.   Input display   0719   IR.   Input display   0720   IR.   Input display   0720   III.   Input display   0721   III.   Input display   0721   III.   Input display   0722   III.   Input display   0723   III.   Input display   0723   III.   Input display   0724   III.   Input display   0724   III.   Input display   0724   III.   Input display   0724   III.   Input display   0725   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0726   III.   Input display   0728   III.   Input display   0728   III.   Input display   0728   III.   Input display   0726   III.   Input display   0726   III.   Input display   0738   III.   Input display   0738   III.   Input display   0738   III.   Input display   0738   III.   Input display   0738   III.   Input display   0739   III.   Input display   0739   III.   Input display   0740   III.   Input display   0740   III.   Input display   0740   III.   Input display   0740   III.   Input display   0740   III.   Input display   0740   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input display   0746   III.   Input disp			Input display	
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IF.   Input display   0711			Input display	
IG.   Input display   0712     IH.   Input display   0713     II.   Input display   0714     IJ.   Input display   0716     IK.   Input display   0716     IK.   Input display   0716     IK.   Input display   0716     IK.   Input display   0716     IR.   Input display   0717     IP.   Input display   0718     II.   Input display   0719     II.   Input display   0720     II.   Input display   0720     II.   Input display   0721     II.   Input display   0722     II.   Input display   0723     II.   Input display   0724     II.   Input display   0725     II.   Input display   0725     II.   Input display   0725     II.   Input display   0726     II.   Input display   0725     II.   Input display   0736     II.   Input display   0738     II.   Input display   0738     II.   Input display   0738     II.   Input display   0739     II.   Input display   0739     II.   Input display   0740     II.   Input display   0740     II.   Input display   0740     II.   Input display   0744     ODD.   Output signal display   0746     ODD.   Output signal display   0756     ORD.   Output signal displa		IF.	Input display	
H.   Input display			Input display	
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OZD. Output signal display 0744 O3D. Output signal display 0745 O4D. Output signal display 0746 O5D. Output signal display 0746 O6D. Output signal display 0747 O7D. Output signal display 0748 OPD. Output signal display 0748 OPD. Output signal display 0749 OQD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0751 OAO. Solenoid output 0752 OBO. Solenoid output 0753 OCO. Solenoid output 0754 ODO. Solenoid output 0755 OFO. Solenoid output 0756 O1O. Solenoid output 0756 O1O. Solenoid output 0756 O1O. Solenoid output 0758 O3O. Solenoid output 0758 O3O. Solenoid output 0769 O4O. Solenoid output 0760 O5O. Solenoid output 0760 O5O. Solenoid output 0761 O6O. Solenoid output 0762 O7O. Solenoid output 0763 OPO. LED output for G500 type control panel 0764 OQO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 VT. Rated output display 0769 VL. Voltage display 0769 DV. Data version No. 0770 RV. Software version No. 0771	[ <u>@</u>	11.		0714
OZD. Output signal display 0744 O3D. Output signal display 0745 O4D. Output signal display 0746 O5D. Output signal display 0746 O6D. Output signal display 0747 O7D. Output signal display 0748 OPD. Output signal display 0748 OPD. Output signal display 0749 OQD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0751 OAO. Solenoid output 0752 OBO. Solenoid output 0753 OCO. Solenoid output 0754 ODO. Solenoid output 0755 OFO. Solenoid output 0756 O1O. Solenoid output 0756 O1O. Solenoid output 0756 O1O. Solenoid output 0758 O3O. Solenoid output 0758 O3O. Solenoid output 0769 O4O. Solenoid output 0760 O5O. Solenoid output 0760 O5O. Solenoid output 0761 O6O. Solenoid output 0762 O7O. Solenoid output 0763 OPO. LED output for G500 type control panel 0764 OQO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 VT. Rated output display 0769 VL. Voltage display 0769 DV. Data version No. 0770 RV. Software version No. 0771				0715
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OZD. Output signal display 0744 O3D. Output signal display 0745 O4D. Output signal display 0746 O5D. Output signal display 0746 O6D. Output signal display 0747 O7D. Output signal display 0748 OPD. Output signal display 0748 OPD. Output signal display 0749 OQD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0750 ORD. Output signal display 0751 OAO. Solenoid output 0752 OBO. Solenoid output 0753 OCO. Solenoid output 0754 ODO. Solenoid output 0755 OFO. Solenoid output 0756 O1O. Solenoid output 0756 O1O. Solenoid output 0756 O1O. Solenoid output 0758 O3O. Solenoid output 0758 O3O. Solenoid output 0769 O4O. Solenoid output 0760 O5O. Solenoid output 0760 O5O. Solenoid output 0761 O6O. Solenoid output 0762 O7O. Solenoid output 0763 OPO. LED output for G500 type control panel 0764 OQO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 ORO. LED output for G500 type control panel 0766 VT. Rated output display 0769 VL. Voltage display 0769 DV. Data version No. 0770 RV. Software version No. 0771	춯		Detector signal display (LID signal)	
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O7D.         Output signal display         0748           OPD.         Output signal display         0749           OQD.         Output signal display         0750           ORD.         Output signal display         0751           OAO.         Solenoid output         0752           OBO.         Solenoid output         0753           OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0766           WT.         Rated output display         0769           VL.         Voltage display         0769           DV.         Data vers				
OPD.         Output signal display         0749           OQD.         Output signal display         0750           ORD.         Output signal display         0751           OAO.         Solenoid output         0752           OBO.         Solenoid output         0753           OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0766           WT.         Rated output display         0769           VL.         Voltage display         0769           DV.         Data version No.         0770           RV.         Software versio				
OQD.         Output signal display         0750           ORD.         Output signal display         0751           OAO.         Solenoid output         0752           OBO.         Solenoid output         0753           OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0758           O4O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0766           WT.         Rated output display         0768           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.			Output signal display	
ORD.         Output signal display         0751           OAO.         Solenoid output         0752           OBO.         Solenoid output         0753           OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0771           RV.         Software version No.         0771	]		Output signal display	
OAO.         Solenoid output         0752           OBO.         Solenoid output         0753           OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0768           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	1			
OBO.         Solenoid output         0753           OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0759           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0766           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0768           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771				
OCO.         Solenoid output         0754           ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0759           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0766           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0768           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771				
ODO.         Solenoid output         0755           OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0759           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	ŀ			
OFO.         Solenoid output         0756           O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0759           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	}			
O1O.         Solenoid output         0757           O2O.         Solenoid output         0758           O3O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	ŀ			
O2O.         Solenoid output         0758           O3O.         Solenoid output         0769           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	ł			
O3O.         Solenoid output         0759           O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	ŀ			
O4O.         Solenoid output         0760           O5O.         Solenoid output         0761           O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	ŀ			
050.         Solenoid output         0761           060.         Solenoid output         0762           070.         Solenoid output         0763           0P0.         LED output for G500 type control panel         0764           0Q0.         LED output for G500 type control panel         0765           0R0.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771				-
O6O.         Solenoid output         0762           O7O.         Solenoid output         0763           OPO.         LED output for G500 type control panel         0764           OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	İ			
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OQO.         LED output for G500 type control panel         0765           ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	Ī	OPO.	LED output for G500 type control panel	
ORO.         LED output for G500 type control panel         0766           WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	Ī		LED output for G500 type control panel	
WT.         Rated output display         0767           VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	[	ORO.	LED output for G500 type control panel	
VL.         Voltage display         0768           TP.         Model display         0769           DV.         Data version No.         0770           RV.         Software version No.         0771	[		Rated output display	
DV.         Data version No.         0770           RV.         Software version No.         0771				
DV.         Data version No.         0770           RV.         Software version No.         0771				
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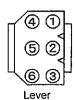
How to Use the Option Connector

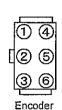
Variable operations are possible by adding external signals to the option connector.

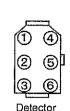
A current of approximately 1.5 mA flows through the switches used for the input signal, so please use switch for minute current.

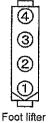
1. Connector Layout



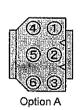








FU



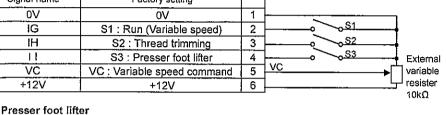
6900 Option B



Sewing machine

#### Lever

Factory setting		
0V	1	<u> </u>
S1 : Run (Variable speed)	2	o S1
S2 : Thread trimming	3	
S3 : Presser foot lifter	4	S3 Extern
VC : Variable speed command	5	VC → variab
+12V	6	resiste
	0V S1: Run (Variable speed) S2: Thread trimming S3: Presser foot lifter VC: Variable speed command	OV         1           S1 : Run (Variable speed)         2           S2 : Thread trimming         3           S3 : Presser foot lifter         4           VC : Variable speed command         5



2

3

4

# Communication / Control panel

RXD1	1
RXD0	2
TXD1	3
0V	4
+12V	5
TXD0	6

Encoder	
0V	1
EA	2
EB	3
+12V	4
Ground	_ 5
	6

Sewing	machine

0V

1F

OF

Sewing macmin	ie –		0
Ground	Ground	1	Sewing machine unit
OB	W : Wiper output	2	<del>-</del>
+24V/(+30V)	+24V	3	
OA	T : Thread trimming output	4	<del></del>
0V	OV	5	
ID	TL: Thread trimmer cancel input	6	
OD	L : Thread release output	7	(L)'-
+24V/(+30V)	+24V	8	
ΙE	S7 : Backstitch input	9	S7
0V/(+5V)	ov	10	
+24V/(+30V)	+24V	11	
OC	B : Backstitch output	12	(B)———

OV

F: presser foot input FU+: presser foot lifter output +

FU-: presser foot lifter output -

Detector	
0V	1
-	2
Ground	3
UP	4
DN	5
+12V	6

External variable resister 10kΩ

### Option A (Black)

Option B

06/CP

03

0V	ov	1	
IA	PSU : Up position stop input	2	PSU
+12V/(+5V)	+12V	3	• +12V max 40mA
IB	PSD : Down position stop input	4	PSD
04	UPW : Needle Up position output	5	UPW
IC	S0 : Low speed input	6	<u>so</u>

Note 1: Pin number 5 is for the signal output.

0V	OV	1	1
14	No setting	2	0 14
01	OT1 : Output	3	<u> </u>
VC2	VC2 : Variable speed command	4	VC2
15	No setting	5	15
l1	IO1 : Input	6	
+5V/(+12V)	+5V	7	
+24V/(+30V)	+24V	8	
l2	U : Needle lift signal	9	0 12
0V	0V	10	1
+24V/(+30V)	+24V	11	
02	NCL : Needle cooler output	12	02
07	No setting	13	

14

15

TF: "TF" output Note 2: Pin number 3,12,15 are for the solenoid output.

Note 3: Pin number 13,14 are for the air valve output. (not for the solenoid output)

No setting

03

06

2. To use as a standing work type sewing machine. (Turn the program mode [C] function [PDS] ON.)

The sewing machine can be used as a standing work type sewing machine with the three connections below using the lever connector. However, take special care to the intrusion of noise, and use the shortest wiring possible.

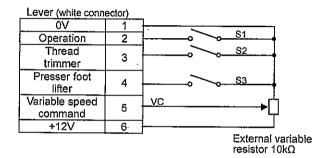
## [Note: Procedure for changing the lever connector]

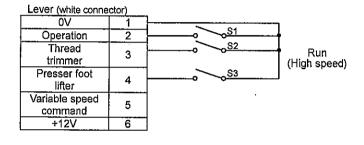
- Be sure to turn OFF the power switch when connecting or disconnecting the lever connector.
- Do not connect the lever connector when you set the function [PDS] to ON in the program mode [C] (Direct call number = "530")

# [Basic procedure]

- (1) Disconnect the lever connector after turning OFF the power switch
- (2) Turn ON the power switch and then, set the function [PDS] to ON. The lever connector still disconnects.
- (3) Connect the lever connect after turning OFF the power switch.
- (4) Turn ON the power switch and confirm the operation.
  - \* When the error code MA is displayed, press D key and then, it is released.
- (1) When operating with an external variable resistor (Control switch panel [auto] and AT in [P] mode is OFF)

(2) For operating with a high speed	
(Control switch panel [auto] and AT in [P] mode is ON	)

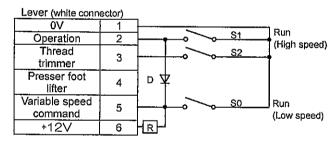




(3) When operation with high speed and inching (Control switch panel [auto] and AT in [P] mode is OFF)

A) When using the lever connector

B) When using the lever connector and the option connector



Lever (white conne	ctor)	
0V	1	
Operation	2	\$1
Thread trimmer	3	S2 Run
Presser foot lifter	4	S3 (High speed)
Variable speed command	5	
+12V	6	
-		_

D: Equivalent to 1S953 (NEC) (VR≥30V. IF≥30mA) R:1kΩ 1/2W or higher

Option A (black co	nnector)	
0V	1	
-	2	
	3	
-	4	}
-	5	
Operation (low speed)	6	so Inching
		- Michina



15 Error Display

When the control box detects an error, the error code is flickered on the control switch panel display. Confirm the error code, and investigate with the following table.

		vestigate with the following table.	
Error code		Probable cause	Inspection
		Is the power voltage too low?	Check the power voltage.
Pur.of		Is the power supply capacity too small?	Check the power supply capacity.
	/POWER.OF	Note: It does this display when power supply is turned O	FF, but this is not an error.
EI		Is the wire to the motor short-circuited?	Check the motor wiring.
<u>.</u> ,	/ E1	Is the sewing machine load torque too high?	Check the sewing machine.
E 2	450	Is the power voltage too high?	Check the power voltage.
	/ E2	Is the sewing machine inertia too high?	Lengthen the deceleration time.
		Is the connector to the motor encoder securely inserted?	Check the connector insertion.
رسد منتر		Are the signals from the motor encoder broken?	Check the ECA and ECB signal.
E 3	/ E3		(Refer to the E mode.)
		Is the sewing machine locked?	Check the sewing machine.
		Is the motor locked?	Check the motor.
E4		Is the motor connector securely inserted?	Check the motor connector insertion.
	/ <b>L</b> 4	Are the signals from the motor connector correct?	Check the motor connector.
88	/ E6	Is an extraordinary signal inputted? (The signal as it repeats ON/OFF at the high frequency.)	Check the input signal.
		Does the noise from outside enter an input signal?	Remove a noise source.
		Is the position detector connector securely inserted?	Check the detector connector insertion.
<b>E8</b> / E8	/ E8	Are the signals from the detector broken ?	Check the detector UP/DOWN signals.
		(UP/DOWN signal interruption)	(Refer to the E mode.)
<i>E9</i>		Is the solenoid wiring short-circuited?	Check the solenoid wiring.
<u> </u>	/ E9	Solenoid defect (coil defect)	Replace the solenoid.
<u> </u>	/ E11	Is the fuse for +12V power supply broken?	Check the fuse for the 12V power supply.

\*E11 error code is not confirmed on the control switch panel when it happens because the LEDs on the control switch panel is turned OFF, but the status display LED on the control box flickers in orange colored as the interval of 0.3 sec. It will be confirmed in error code history after returning to a normal condition.

	An error of the copy mode using the control switch panel.	
<b>N5</b> /M5	Is the control switch panel connector securely inserted?	Check the connector insertion.
	The voltage or the type of control switch panel is difference.	Check the voltage and the type are right.
<i>NR</i> /MA	The position data of the lever unit is defective.  When power supply is turned ON, the pedal is not neutral position. (The status display LED on the control box turn on in orange colored.)	The pedal is neutralized. (It returns automatically 1 second later.) (Refer to the VCSET setting (page 36).)

Others	Probable cause	Inspection
	Are the operation signals from the lever unit broken?	Check the lever unit signal.
The sewing machine does not	, and the operation of the contract of the con	(Refer to [E] mode S1 signal.)
run when the pedal pressed.	Is the input signal S6 broken ?	Check the status display LED. If flickering, reset
ruii witeri tile pedai pressed.	is the input signal 50 bloken?	the signal.
		Confirm the sewing machine connector.
	It does not display 99 in normal mode.	Change 99 using control box [D] key.
The sewing machine does not		Check the variable speed voltage. (Refer to [E]
run at the high speed.	Is the variable speed voltage with the pedal toed down low?	mode.)
	Is the motor pulley diameter too small?	Check the motor pulley diameter.(Refer to [5]-3)
TI - 11 11 11 1	Is the thread trimming signal (S2) from the lever unit broken?	Check the signal S2. (Refer [E] mode.)
The thread is not trimmed even	Is the cancel thread trimmer operation S2L(mode[P]) ON?	Set S2L(mode[P]) to OFF.
with heeling.	Is the trim key of the control switch panel OFF?	Set the trim key to ON.
	Is the light heeling signal (S3) or the thread trimming signal	Check signals S2 and S3. (Refer [E] mode.)
	(S2) from the lever unit broken?	Check signals 32 and 33. (Neier [L] mode.)
The presser foot lifter output	Is the presser foot lift signal (F) broken?	Check signal F. (Refer [E] mode.)
does not operate.		
	Is the presser foot output (FU) broken?	Check FU output. (Refer [E] mode.)

Voltage and Frequency Specifications		110V single phase 50/60 Hz	230V single phase, 3-phase 50/60 Hz			
	Model name		XL-G554-10 (Y)	XL-G554-20 (Y)		
		Volta	age	100 to 120 V	200 to 240 V	
Motor		Rated	output_	55	ow	
WOO		Rated t	orque	1.47N·m	(0.15kg·m)	
		Rated	speed		0 rpm	
		Wei	ght	6.9 kg (f	vain unit)	
	Model name	auto	eral purpose matic thread trimmer	XC-GMFY-10-05	XC-GMFY-20-05	
		Volta	age	100 to 120 V	200 to 240 V	
	Speed control Sewing machine		_	70 to 4,000 (MAX 8,999) rpm		
Control			Motor shaft	50 to 3,600 rpm		
box	S	olenoid	voltage	DC 24 V / 30 V		
	Rang	ge of rat	ing Voltage	±10%		
	Am	bient ter	mperature	5~40 °C		
	Ambient humidity Storage temperature		numidity	30 - 95%RH (with no dew condensation)		
			nperature	-25 ~ 55°C (no freezing)		
•		Altitu	ide	******	ve mean sea level	
Weight			ght	3.5kg (Main unit)		
	Position	detecto	or		XC-KE-01P	

Solenoid output

Solenoid	Impedance (Ω)		
	24VDC Setting	30VDC Setting	
OF (Presser foot lifter output FU)	8 or more (continuous time rating)	10 or more (continuous time rating)	
OA (Thread trimming output T)	4 or more (short time rating)	5 or more (short time rating)	
OB (Wiper output W)	4 or more (short time rating)	5 or more (short time rating)	
OC (back stitch output B)	4 or more (short time rating)	5 or more (short time rating)	
OD (Thread release L)	4 or more (short time rating)	5 or more (short time rating)	
O1 (Output)	4 or more (short time rating)	5 or more (short time rating)	
O2 (Needle cooler output NCL)	4 or more (short time rating)	5 or more (short time rating)	
O3 (TF output TF)	4 or more (short time rating)	5 or more (short time rating)	

- Note 1. In the brackets of solenoid output, it is a factory setting.
  2. The continuous time rating of "OF" output is 50 percentage of chopping duty.
  3. The maximum output current rating is 3.0A for 24VDC and 2.4A for 30VDC.

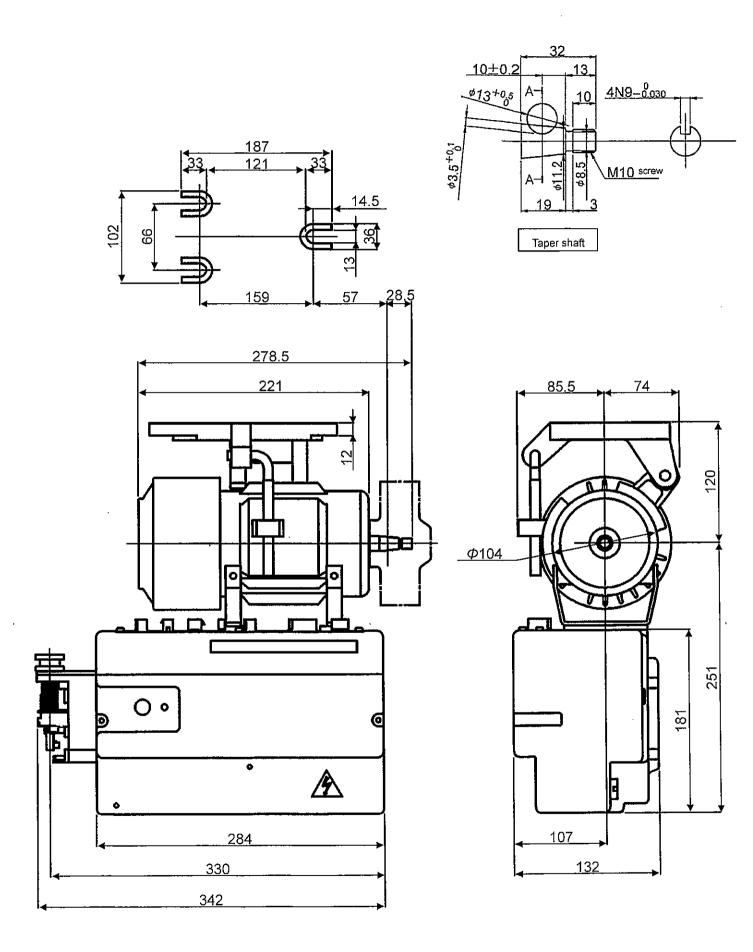
  - 4.24VDC setting is a factory setting.

Rated output current of value output

Rated maximum output current O6, O7: Total maximum current is 0.3 A.

<Reference> Table of digital display

eterence> lable	or aigit	ai dispia	ıy							
No.	0	1	2	3	4	5	6	7	8	9
Digital display	0	1	5	3	4	5	8	7	8	9
No.	Α	В	С	D	E	F	G	Н	ı	J
Digital display	R	Ь		ď	E	F	6	H	1	J
No.	K	L	M	N	0	Р	Q	R	S	T
Digital display	也	L	Π	n	0	P	q	_	5	Γ
No.	J	V	W	Х	Y	Z			•	
Digital display	U	U	8	11	h	estima 4000- 4000-				





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