

***ENGLISH***

**PLC-2760NV  
INSTRUCTION MANUAL**

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## CAUTION

This Instruction Manual for the PLC-2760NV only describes their differences from the standard models (PLC-2760V).

For safety-related information, carefully read and fully understand "Safety precautions" described in the Instruction Manual for the standard models before using your sewing machine.

# 1. Specifications

## PLC-2760NVSA70BBZ

Item	Application
Model	PLC-2760NV
Sewing speed	Max. 2,500 sti/min Refer to <b>"10. SEWING SPEED TABLE"</b> in the Instruction Manual for the standard model.
Stitch length	Max. 12 mm
Needle	SCHMETZ 134×35 (Nm 125 to Nm 200) (Standard : Nm 140)
Applicable thread size for sewing	#30 to #0 (US: #46 to #266, Europe: 60/3 to 10/3)
Applicable thread size to be cut	#30 to #0 (US: #46 to #266, Europe: 60/3 to 10/3)
Motor	AC servo motor
Presser foot pressure control	Electronic control
Horizontal feed control	Electronic control
Alternate vertical feed control	Electronic control
Lubricating oil	JUKI New Defrix Oil No. 1 (equivalent to ISO standard VG7) or JUKI MACHINE OIL No. 7
Number of patterns	Sewing pattern .....99 patterns (For the polygonal shape sewing, as many as 10 patterns can be registered.) Cycle sewing pattern .....9 patterns Custom-pitch pattern .....20 patterns Condensation custom pattern .....9 patterns
Noise	- Equivalent continuous emission sound pressure level ( $L_{pA}$ ) at the workstation: A-weighted value of 83.5 dB; (Includes $K_{pA} = 2.5$ dB); according to ISO 10821- C.6.2 - ISO 11204 GR2 at 2,500 sti/min. - Sound power level ( $L_{WA}$ ); A-weighted value of 90.5 dB; (Includes $K_{WA} = 2.5$ dB); according to ISO 10821- C.6.2 - ISO 3744 GR2 at 2,500 sti/min.

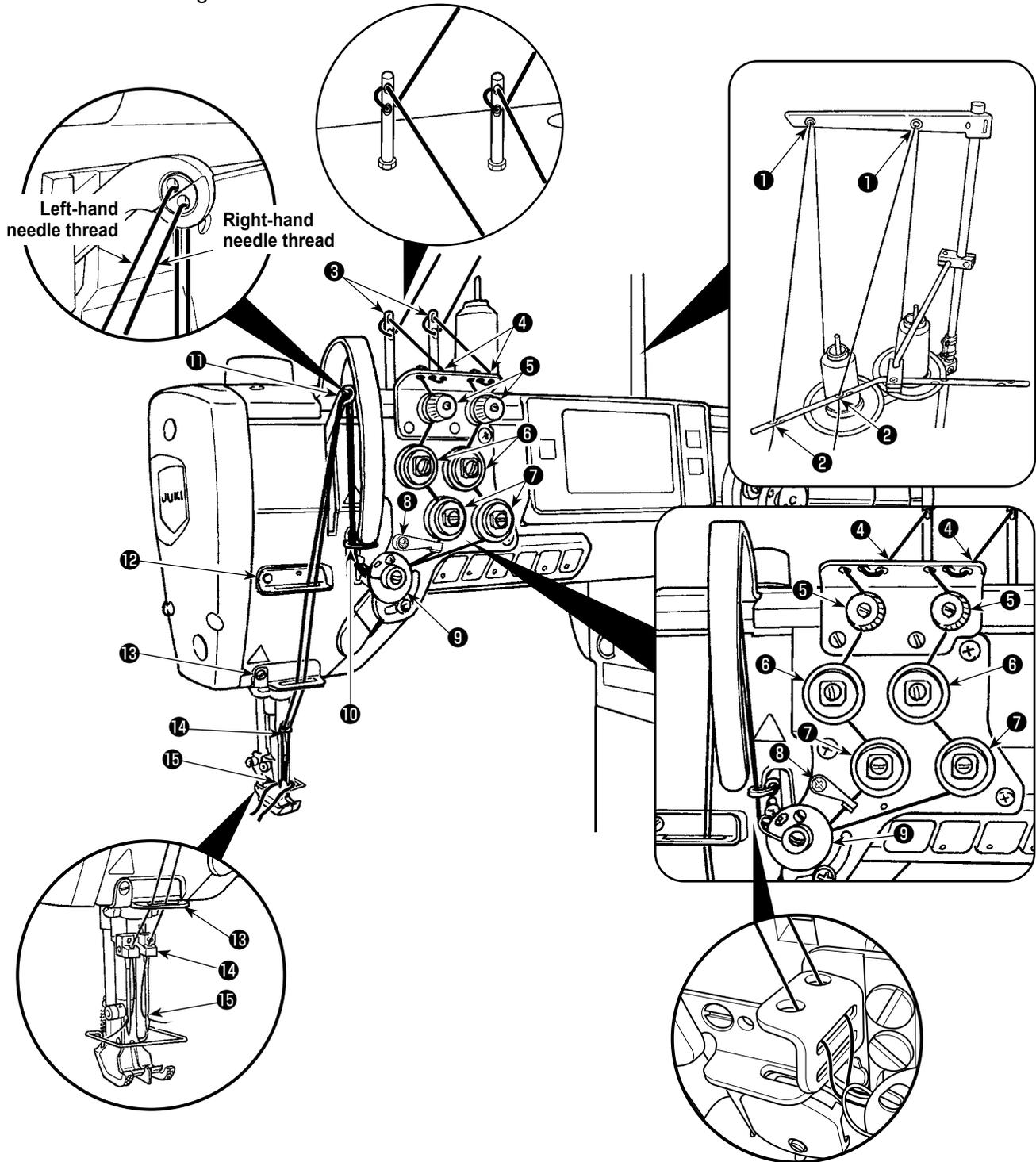
## 2. Threading the machine head



### WARNING :

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

Thread the machine head following the order as illustrated in the figure.



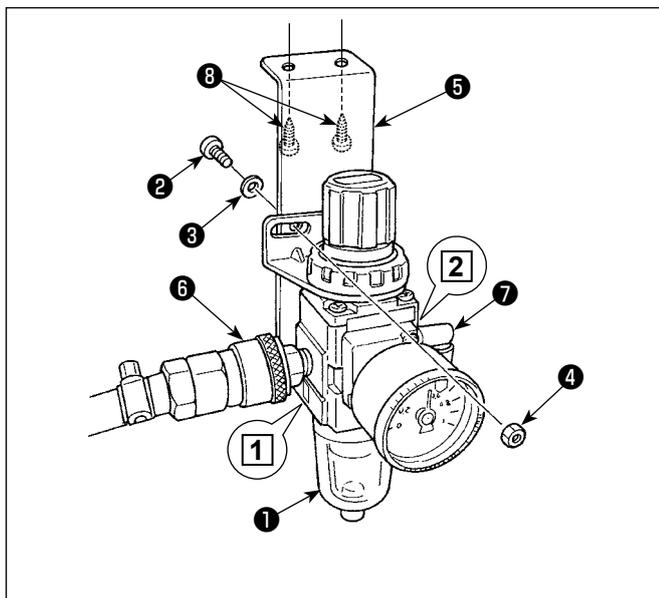
If you want to perform thread trimming at a position where no material exists, it is necessary to change thread guide 13 with the suitable thread guide. The thread guide to be used instead of the current one is supplied with the unit as an accessory.  
Part number of replacement thread guide: 40034675

### 3. Pneumatic components (when the pneumatic center guide is used)



#### WARNING :

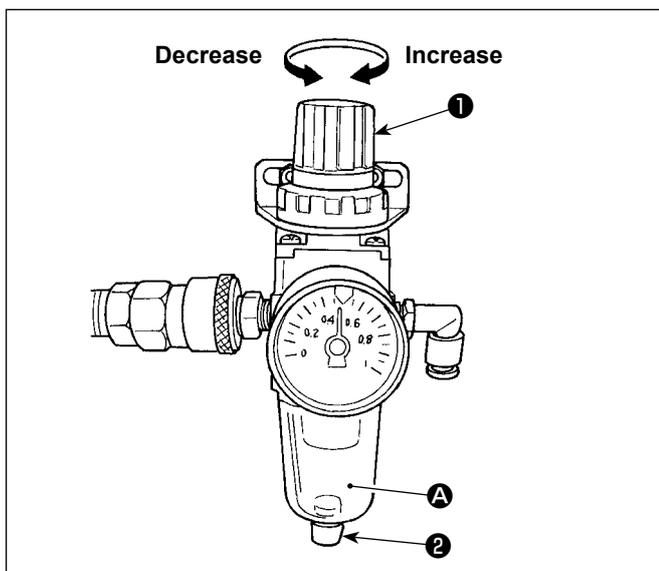
To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



#### (1) Installing the regulator

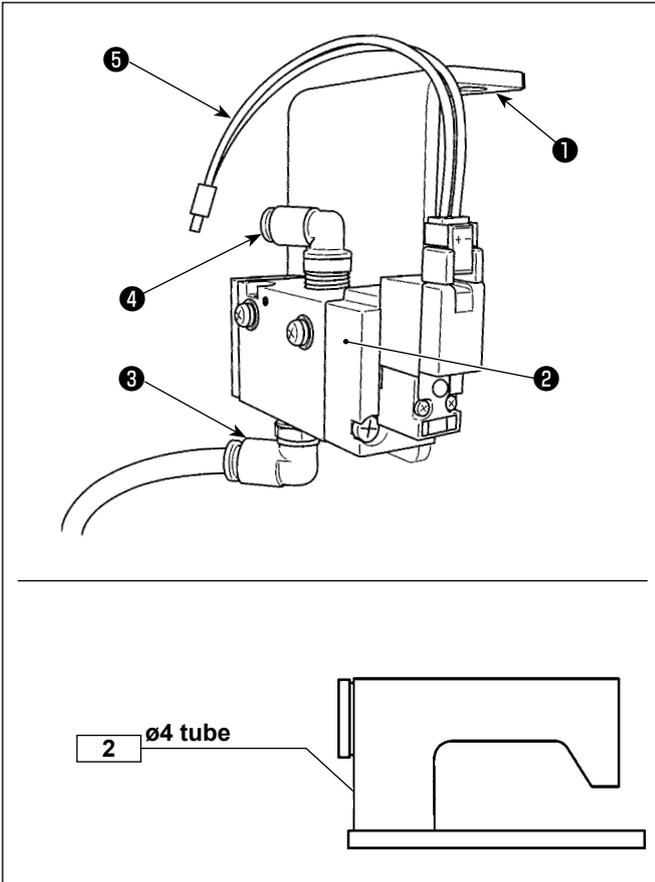
- 1) Install regulator (asm.) **1** on mounting plate **5** with screw **2** , spring washer **3** and nut **4** which are supplied with the unit.
- 2) Attach joint **6** to inlet **1** . Attach joint **7** to outlet **2** .
- 3) Attach mounting plate **5** on the undersurface of the table with accessory screws **8** supplied with the plate.
- 4) Connect the  $\varnothing 6$  air tube to joint **7** .

\* Screw **2** which is supplied with the unit:  
Thread diameter M5; Length: 12 mm  
(SM6051202TP)



#### (2) Adjusting the air pressure

- 1) The operating air pressure is 0.5 to 0.55 MPa. Adjust the air pressure using air pressure regulating knob **1** of the filter regulator.
- 2) In the case fluid accumulation is observed in **A** section of the filter regulator, turn drain cock **2** to drain the fluid.



### (3) Attaching the solenoid valve

- 1) Attach solenoid valve asm. ② to the under-surface of the table with accessory screw ① (SK3452001SE).
- 2) Connect the ø6 tube described in step 4) in "(1) Installing the regulator" to joint ③ .  
Cut the ø6 tube to an appropriate length before use.
- 3) Connect the ø4 air tube coming from the air type center guide to joint ④ .
- 4) Connect connector ⑤ to the CN59 on the electrical control box.

## 4. Setting the incidental device

### 4-1. Setting the ON/OFF status of the center guide



- 1) **M** ① held pressed for three second.  
The "mode screen" is displayed.



- 2) Select "14. Incidental device setting".



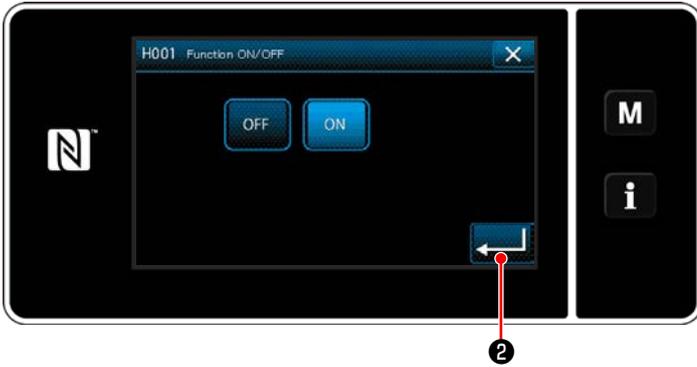
- 3) The "Incidental device setting screen" is displayed.  
When the device setting of which is to be changed is selected, the setting screen for the selected device is displayed.
- 4) Select "1. Center guide" to display the "Center guide setting screen".

<Incidental device setting screen>



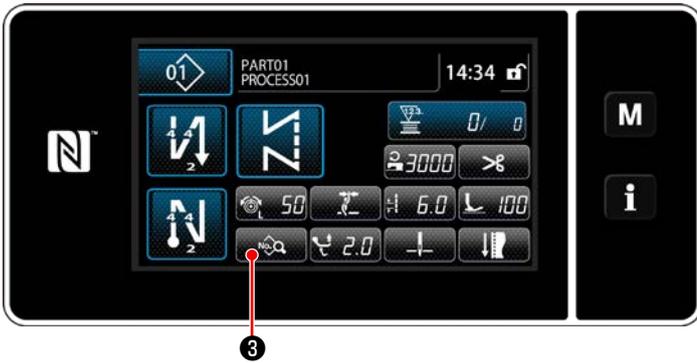
- 5) Select "H001 Function ON/OFF" to display the "Center guide function ON/OFF setting screen".

<Center guide setting screen>

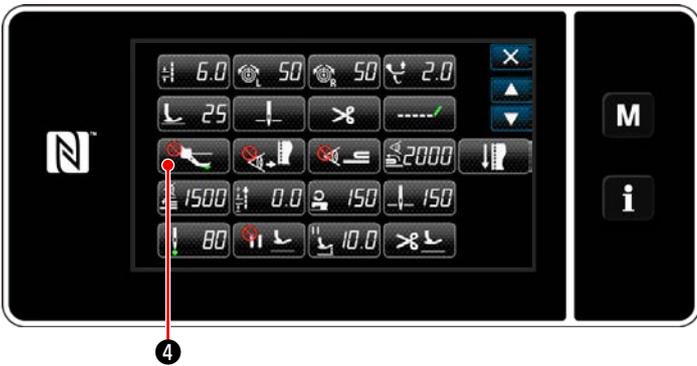


<Center guide ON/OFF setting screen>

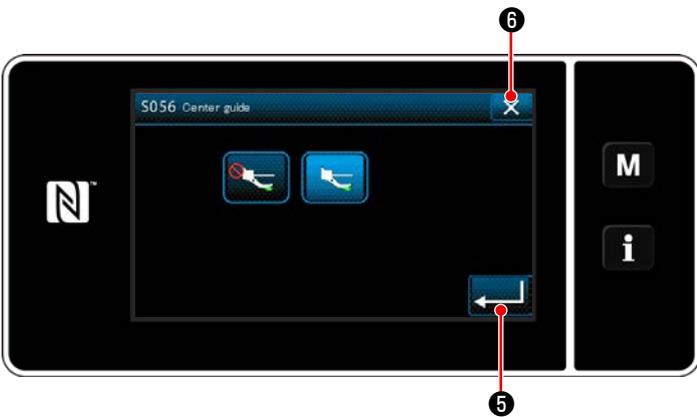
- 6) Select ON/OFF status of the function.
- 7) Press  ② to confirm the setting.



- 8) Press  ③ to display the sewing data edit screen.



- 9) Press  ④ to display the "S056 center guide".



- 10) Then, set the ON/OFF status of the center guide.
- 11) Press  ⑤ to confirm the value you have entered.
- 12) Press  ⑥ to display the sewing screen.



If the pneumatic center guide does not function just by setting its ON/OFF status, set the optional input/output of the center guide as described in the next paragraph to enable the function of the pneumatic center guide.

## 4-2. Setting the optional input for the the center guide

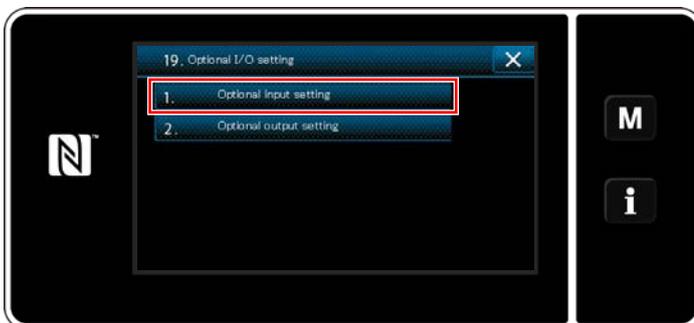
Assign the switching function of the center guide to the 6-gang switch.



- 1) **M** **1** held pressed for three second.  
The "mode screen" is displayed.



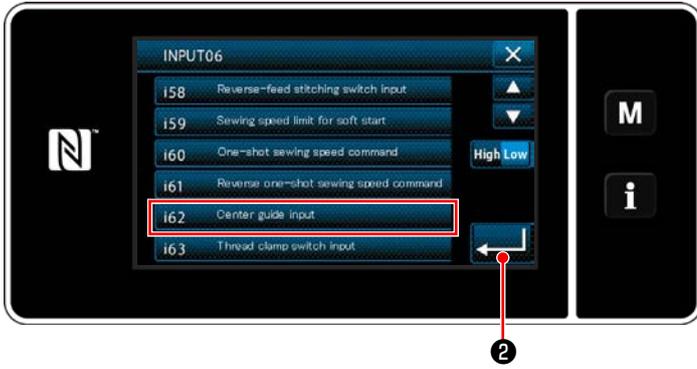
- 2) Select "19. Optional I/O setting".



- 3) Select "1. Optional input setting".

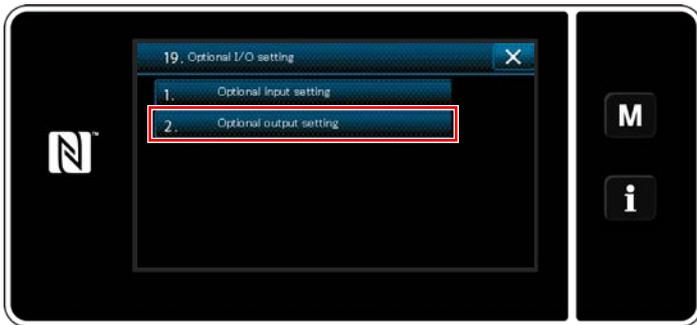


- 4) Select "INPUT6. Thread clamp switch input".

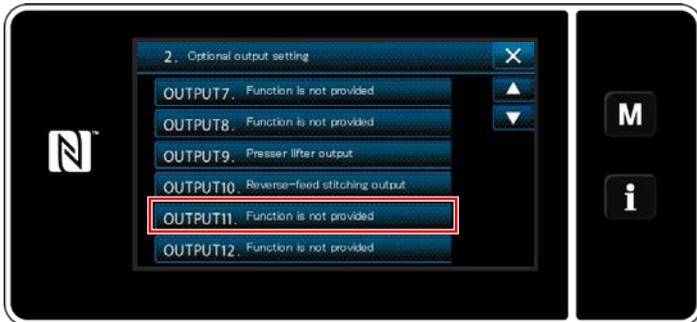


- 5) Select "I62. Center guide input".
- 6) Press  ② to confirm the selection.

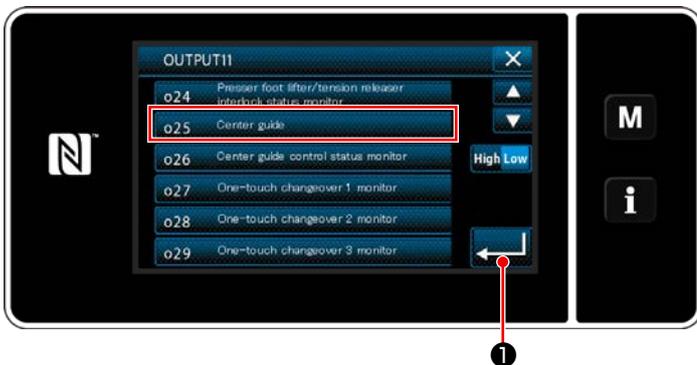
### 4-3. Setting the optional output for the center guide



- 1) Select "2. Optional output setting".



- 2) Select "OUTPUT11. Function is not provided".



- 3) Select "o25. Center guide".
- 4) Press  ① to confirm the selection.