

Smart Devices

- ① Skip Stitch Detector ② Bobbin Thread Remaining Detector
- ③ Cover Sensor Unit ④ Digital Tension



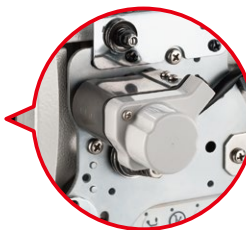
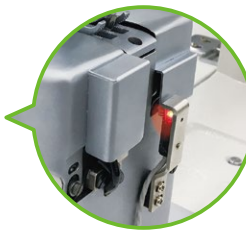
Expanding functions with JUKI's smart devices!



LU-2810S-7/CP180 (with a thread trimmer)



PLC-2760SDA-7-0BB/CP-180C



Part No. list of smart devices

Skip Stitch Detector, Bobbin Thread Remaining Detector, Digital Tension

Models	Skip Stitch Detector + Bobbin Thread Remaining Detector			Digital Tension		Additional purchase parts
	Set ①+②	① Skip Stitch Detector	② Bobbin Thread Remaining Detector	Thread tension controller (assembly)	Control Box	
● LU-2800 Series						
LU-2810-7, LU-2810ES-7	40175752	40162088	40163832	40153263	40153920	*1
LU-2810-7, LU-2810ES-7 (For JA)	40190016		40188862			
LU-2860-7	40175753	40162089	40163833	40153924		
LU-2860-7 (For JA)	40200662		40200665			
LU-2828-7, LU-2828ES-7	40175755	40162090	40163837	40153263		—
LU-2818-7, LU-2818ES-7	40175754	40165240	40163836			*1
LU-2810V-7	40216597	40216600	40216599			
LU-2828V-7	40198455	40198453	40198457			
LU-2860V-7	40205490		40205493			*2
LU-2860V-7 (For JA)	40205531	40205491	40205533			
● PLC-2700 Series						
PLC-2710-7	40175756	40162091	40154826	40153263	40153920	—
PLC-2760-7	40175757	40162092	40153314	40153924		*3
PLC-2710V-7	40221414	40221416	40221415			*2
PLC-2760V-7	40221417	40221419	40221418			*2 *3
● LU-1500/PLC-1700 Series						
LU-1510-7/PLC-1710-7	—	—	—	40154434	40153920	—
LU-1560-7/PLC-1760-7				40158964		

*1 For LU-2810ES and 2818ES, also purchase the moving knife (part No.: 40195311).

*2. When purchasing the skip stitch detector or bobbin thread remaining detector of the LU-2800V or PLC-2700V series separately, also purchase the filter regulator (part No.: 40198456).

*3. For the PLC-2760 and 2760V, purchase two feed lever base side covers (set) of the needle width being used. Needle width 6mm: 40155443 / 8mm: 40155445 / 10mm: 0155447 / 12mm: 40153488

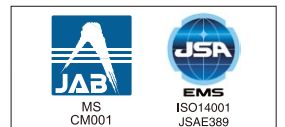
Cover Sensor Unit

Models	Cover Sensor Unit				
	Set ③+④+⑤+⑥	③ Eye guard	④ Handwheel cover	⑤ LU: Bed slide PLC: Hook cover	⑥ Cable*4
● LU-2800 Series: Standard model					
LU-2810-7	40152605	40193646	40152604	40152603	40151337
LU-2810-7 (equipped with skip stitch and bobbin thread remaining detectors)	40171589			40171587	
LU-2860-7	40175682			40175683	
LU-2860-7 (equipped with skip stitch and bobbin thread remaining detectors)	40177690			40177671	40151337
LU-2828-7	40171588			40171583	
LU-2818-7	40171589			40171587	
● LU-2800 Series: High-speed model / digital model					
LU-2810ES-7	40199283	40193646	40193648	40152603	40151337
LU-2810ES-7 (equipped with skip stitch and bobbin thread remaining detectors)	40199284			40171587	
LU-2828ES-7	40199285			40171583	
LU-2818ES-7 (equipped with skip stitch and bobbin thread remaining detectors)	40199284			40171587	40193645
LU-2828V-7	40198452			40171583	
LU-2860V-7	40198458			40175683 40198459	
LU-2860V-7 (equipped with skip stitch and bobbin thread remaining detectors)	40198460	40177671 40198461	40152603		
LU-2810V-7	40216620	40152603			
LU-2810V-7 (equipped with skip stitch and bobbin thread remaining detectors)	40216661	40171587			
● PLC-2700 Series: Standard model					
PLC-2710-7	40165317	40193646	40152604	40165318	40151337
PLC-2760-7	40177729			40165318 40165319	40165313
● PLC-2700 Series: Digital model					
PLC-2710V-7	40221394	40193646	40193648	40165318	40199929
PLC-2760V-7	40221395			40165318 40165319	

*4. If not purchased as a set, purchase one cable for each sewing machine. (No matter which one of ③, ④, and ⑤ is used, one ⑥ is required.)

* The handwheel cover for ES is the same blue one as for V.

* A cable (part No.: 40175951) is required when using the sensor cover (set, single item, or combination of single items) in combination with the skip stitch / bobbin thread remaining detector. Not required for V series.



Registered Organization: JUKI CORPORATION Head Office
The Scope of the Registration: The activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines, household sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

Supported models

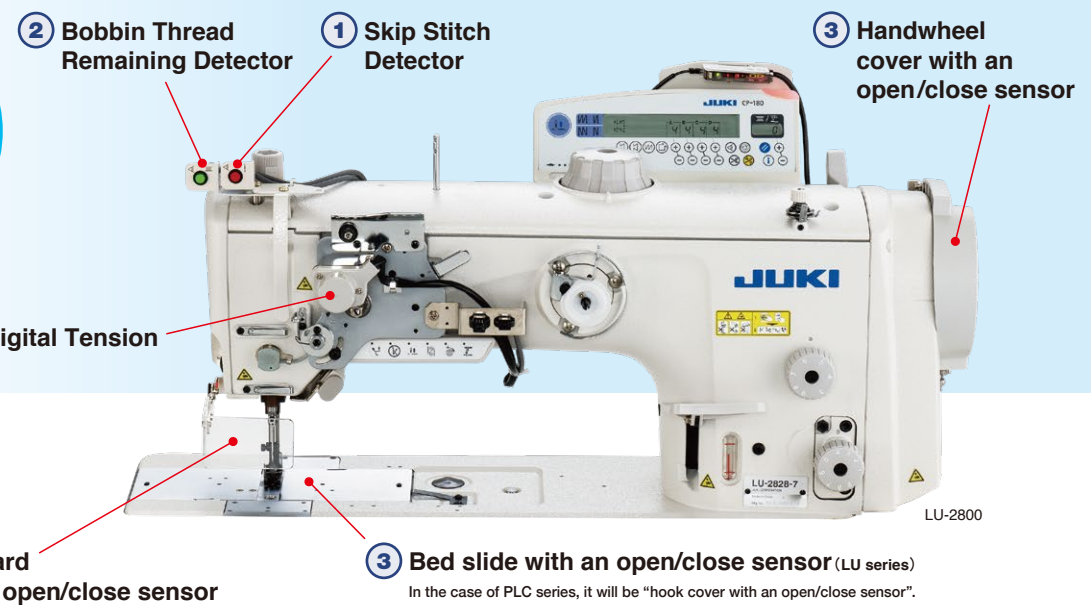
LU-2800 Series **LU-2800V** Series
PLC-2700 Series **PLC-2700V** Series
LU-1500 Series (supporting the digital tension only)

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* Specifications and appearance are subject to change without prior notice for improvement.
 * Read the instruction manual before putting the machine into service to ensure safety.
 * This catalogue prints with environment-friendly soyink on recycle paper.
 * Paper from responsible sources FSC™ C001712

Easier to use with JUKI's smart devices!

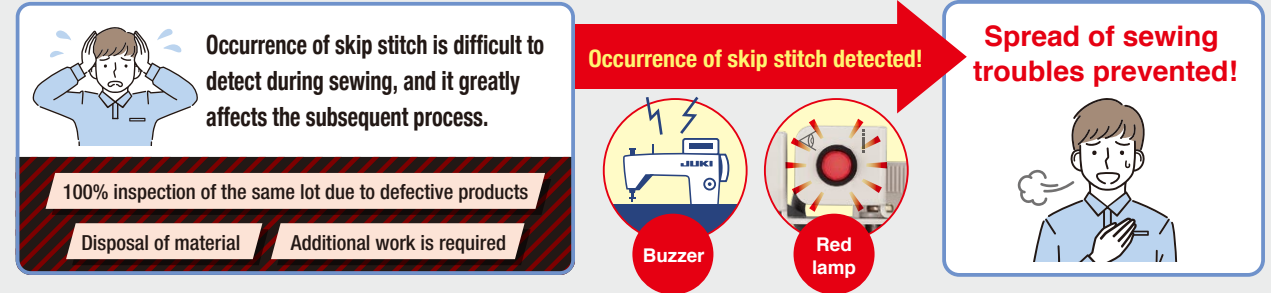


③ Eye guard with an open/close sensor

③ Bed slide with an open/close sensor (LU series)
In the case of PLC series, it will be "hook cover with an open/close sensor".

1 Skip Stitch Detector

The skip stitch is automatically detected the moment it occurs, the sewing machine is stopped, and it is notified by a buzzer and a red lamp*. Productivity increased by preventing the spread of sewing troubles and reducing waste!

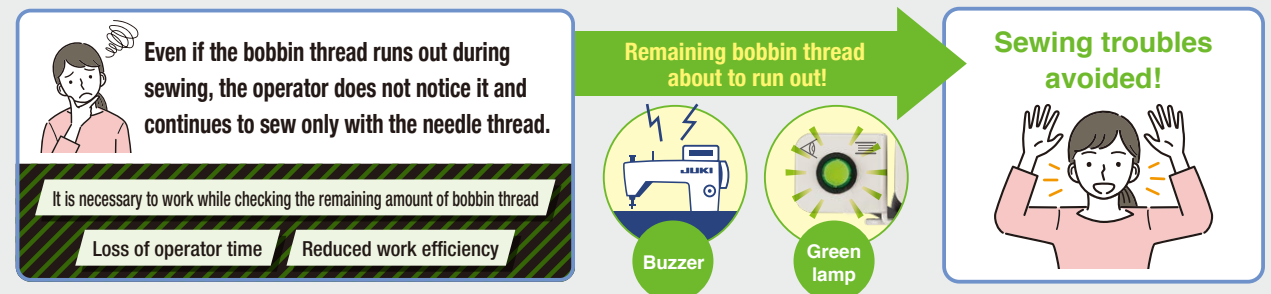


Monitors skip stitches by detecting the threads across the hook. If any skip stitch is detected, the buzzer sounds, the red lamp lights up, and the sewing machine stops. Therefore, operators can concentrate on their work without worrying about skip stitches. Finding defective skip stitches during sewing reduces the load of inspection work and prevents the outflow of defective products.

* In the LU-2800V series and PLC-2700V series, the error is notified by displaying the error code on the operation panel, not by lighting the lamp.

2 Bobbin Thread Remaining Detector

Automatically detects before the bobbin thread runs out and notifies you with a buzzer and a green lamp*. Possible to avoid sewing troubles in advance, reducing the burden on the operator and improving efficiency!



The remaining amount of bobbin thread is detected by a sensor using a dedicated bobbin. When the remaining amount of thread on the bobbin reaches the specified value, the buzzer sounds, the green lamp lights up, and the sewing machine can be stopped. Therefore, sewing operators can concentrate on their work without worrying about the remaining amount of bobbin thread, increasing the productivity.

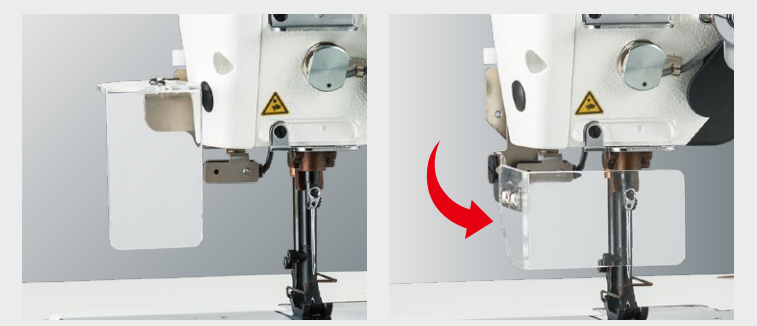
* In the LU-2800V series and PLC-2700V series, the error is notified by displaying the error code on the operation panel, not by lighting the lamp.

3 Cover Sensor Unit [Each can be used separately.]

Opening / closing of the eye guard and cover is automatically detected, and when it is open, the sewing machine is stopped from starting. Making it easier to use and improving safety by preventing the accidents due to needle breakage, entanglement, etc.

Eye guard with an open/close sensor

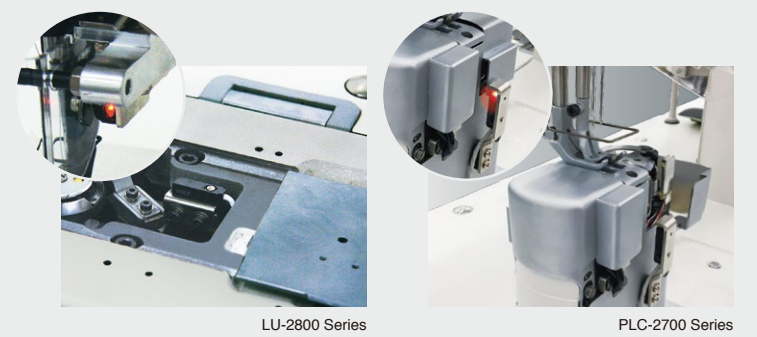
Operators are protected from needle breakage during sewing. Since the sewing machine does not work when the eye guard is open, the sewing machine will not start unexpectedly when the needle is replaced even if the power is forgotten to be turned off.



Bed slide with an open/close sensor (LU Series)

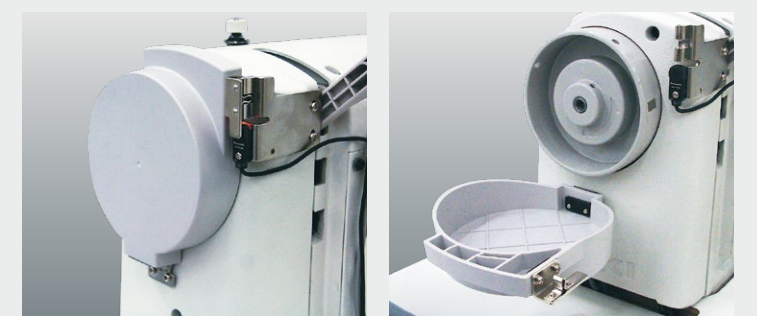
Hook cover with an open/close sensor (PLC Series)

If the bed slide or hook cover is open, the sewing machine will not start. Therefore, there is no unexpected startup during bobbin replacement. It also prevents the material from getting entangled in the hook or the operator from being injured during sewing.



Handwheel cover with an open/close sensor

If the handwheel cover is open, the sewing machine will not start. So there is no unexpected start when turning the handwheel by hand. In addition, accidents such as threads or materials getting caught in the handwheel during sewing can be prevented.



4 Digital Tension • Standard equipment for LU-2800V series and PLC-2700V series.

Setting of thread tension can be centrally managed by digitization. Furthermore, the thread tension is prevented from being changed by the operator's own judgment.

Numerical control of thread tension settings can improve reproducibility when changing work processes. Since a dedicated control box is required to change the settings, operators cannot change the thread tension, resulting in easier management and higher efficiency.



Digital tension device

Stable tension management possible because the needle thread tension is controlled by a pulse motor. (The connected control box facilitates the reproducibility of the thread tension suitable for the work process.)

Control Box

16 types of thread tension settings are available per sewing machine. Furthermore, one control box can manage up to 250 sewing machines.