

COMPOUND FEED LOCKSTITCH INDUSTRIAL  
SEWING MACHINES

**LU2-4410/4400** (Single needle)

**-4430/4420** (Double needle)



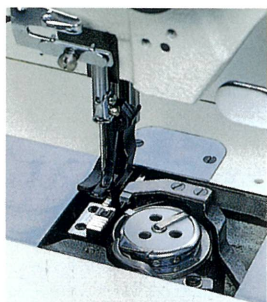


# High-Level Functions and Ease of Use Expand Applications and Enhance Productivity.



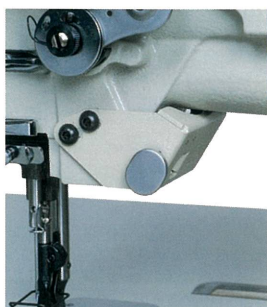
## A new entry of the automotive seat model(CS)

- The CS model for automotive seat stitching, etc. introduced into the line has its own thread take-up lever stroke and feed motion to further improve seat stitching quality.



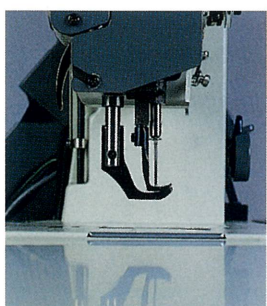
## Stable trimmer performance for from thin to thick threads

- The movable knife moving straight in parallel with feed dog is engaged with the fixed knife to provide a sharp trimmer action for from thin to thick threads(#8).



## Touch back switch with cancel function.

- The touch back function can be canceled by turning the button.



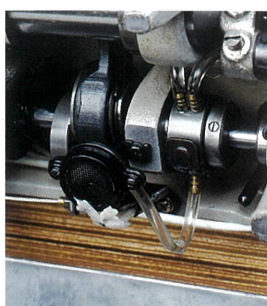
## Automatic needle-reversing function (when the LIMISERVO X is used)

- A needle height of 16mm and over can be maintained when the needle is in the upper stop position so that a heavy material can be inserted and removed easily.



## Built-in type detector for highly accurate position detection (Large pulley)

- The needle stop UP position and DOWN position can be adjusted independently with a single touch. The power state can also be confirmed at a glance with the display lamp. Operations are made even easier with the incorporation of a large pulley.



## Automatic lubricating system for ease of maintenance

- The automatic lubricating system eliminates oiling. It forces the pump to supply oil from the oil tank the required parts to further improve the durability of the sewing machine.

## OPTION

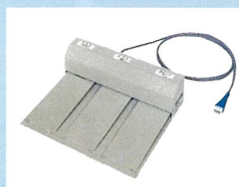
## Various devices to support labor saving during sewing. (Option)

### Automatic presser foot lifter



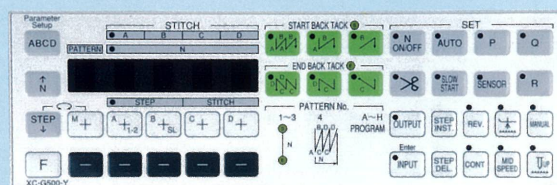
Model	LE-FA
Method	Pneumatic
Pressure foot lifting torque	Max. 13.73N·m {Max. 140kg·cm} (at 0.49MPa (5kg/cm <sup>2</sup> ) air pressure)
Usage conditions	Continuous
Application	Heavy material

### XC-CVS-2 Variable Speed Pedal



- Variable speed operation is possible during standing work.
- External signals for thread trimming and presser foot lifting, etc., can be operated with three foot switches.

### XC-G500-Y Control Switch Panel



- It is possible to call up the required parameter in a single operation by the "Parameter Setup" key.
- When a parameter is changed, a dot appears to indicate that the parameter has already been changed.
- Two types of setting data can be saved in one XC-G500-Y control switch panel.
- The kind of the program key has been increased from one kind to three kinds.

Function	Model	XC-G500-Y
Number of display digits		5digits
Stitching	Straight lock stitching	installed
	Start/End Back tacking	6types
	Stitching with fixed stitches	1-9999stitches
Stitching with fixed stitches	Continuous pattern	Max. 8 pattern, Max 25 process according to program
	Start/End Back tacking	6types
Up/down counter with alarm setting		One counter each (display is 4 digits)
Trimming cancel key		installed
Automatic key		installed
Additional input key		installed
Parameter of control box copy function		installed
Additional LED display		installed



# Perfect for stitching thick fabrics such as seats, bags and sofas!

## LU2-4400 Series single/double needle compound feed sewing machines

Mitsubishi introduces a new line of compound feed sewing machines, including an automotive seat model (CS), to its field-proven, heavy material sewing machines. Stable stitch formation, adjustable needle down position by a built-in detector, and improved maintainability have upgraded functions and operability. A great variety of needs are satisfied by the combination of a large number of options such as the LIMISERVO X-G servo motor.

### Feed regulating dial with lock

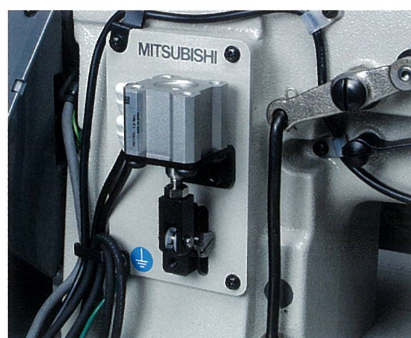
Trouble caused by stitch variation during stitching can be accurately prevented.

### Control switch panel (option)

A variety of sewing patterns can be selected.

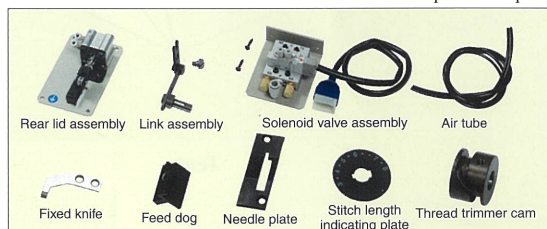
### Equipped with the short thread tail device (option)

The tail length after trimming is shortened and no further trimming is required.



By replacing a part with the optional kit (LU-ST KIT), this device can be installed to the LU2-4410-B1T-CS. (\*1)  
(\*1) Products with production number 55\*\*\*\* or later.

Replacement parts



### Bottom side of sewing example



Before



After

### Automatic presser foot lifter(option)

### Powerful & high-performance LIMISERVO X-G Series

- \*Simple sequence function is provided.
- \*Insertion and removal of fabrics are easy with the reverse needle lifting function.
- \*Needle dropping position can be accurately decided with the stop just before fabric function.



## User-friendly functions

### Computer interface standard equipment

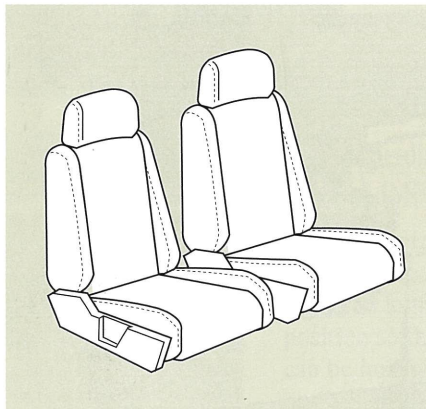
- Settings data control including batch writing, reading and saving of settings can be performed using the setup software.(XCG\_SET)
- Step sequence creation, editing, etc. can be performed using the dedicated step sequence software.(XCG\_STEP)

## Specifications

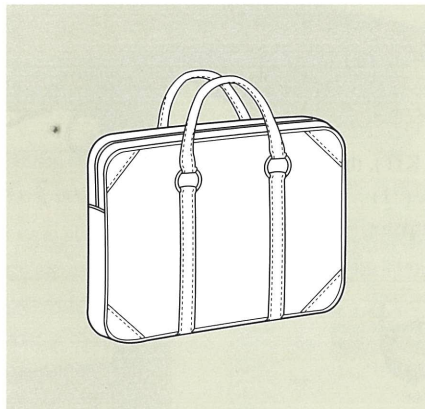
Model		LU2-4410-B1T-CS	LU2-4430-B1T	LU2-4400-B0B	LU2-4420-B0B
Item					
Type	Single/double needle compound feed lockstich sewing machine with automatic under trimmer			Single/double needle compound feed lockstich sewing machine	
Number of needles	Single needle		Double needle	Single needle	Double needle
Application	Automotive seat		Heavy material		
Max. sewing speed	2,000 stitches/min				
Stitch length	0mm to 9mm				
Presser foot stroke	Knee/16mm, hand/8mm				
Needle	DP x 17 #21		DP x 17 #23		
Hook(horizontal rotating hook)	Large				
Needle bar stroke	35mm		36mm		
Thread take-up lever stroke	70mm		74.5mm		
Vertical stroke of upper feed	2mm to 6mm				
Needle gauge	Standard	—	6.4mm	—	6.4mm
	Special		3.2, 4, 4.8, 8, 9.5, 12.7, 16, 19, 25.4 mm		3.2, 4, 4.8, 8, 9.5, 12.7, 16, 19, 25.4 mm
Touch back	○			—	
Mass	42kg			39kg	

Note: The warning sign is affixed in the sewing machine.

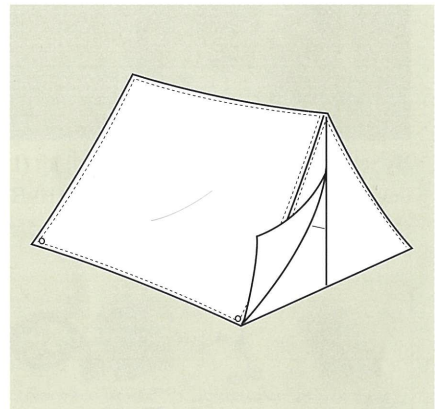
## Applications



Automotive Seat



Bag



Tent

### Safety Caution

In order to properly and safely utilize the sewing machines mentioned in this brochure, before starting the operation, please make sure to read the related instruction manuals.

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