

MITSUBISHI

Changes for the Better

Mitsubishi Industrial Sewing Machine AC Servo

LIMISERVO X

G Series



Limiservo X G Series

Limiservo X G Series

Limiservo X G Series

*Automation
Technology*
BY MITSUBISHI
ELECTRIC



New Mitsubishi LIMISERVO **G** Series!

Compact, lightweight motor with complete range of convenient functions!

G Motor Size and Weight Reduction

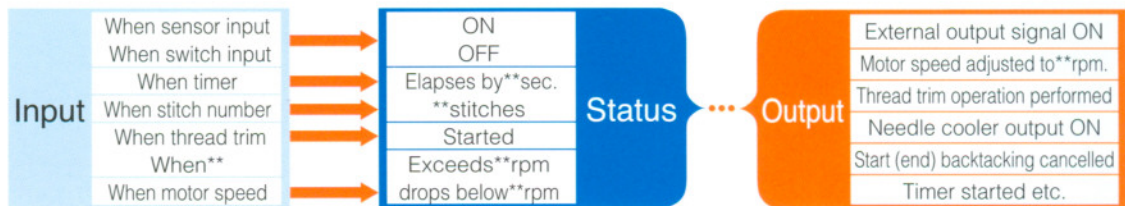
Realization of Compact, Lightweight Motor

Motor size reduced by approximately 60% when compared with previous motor (XL-554). Motor weight reduced by approximately 1.7kg.

G Enhanced Functionality

Step Sequence Function

- This function enables easy programming of the desired input, output and machining operations in sequence with the stitching process. (Extensive upgrade of existing machine simple sequence mode)
- Various operations can now be incorporated into the "stitching process", including those performed before and after operation.



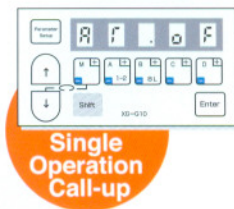
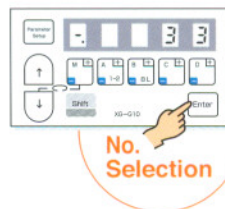
(Note: Condition settings also possible with multiple combining.)

Direct Parameter No. Call-up Function

Previously it was necessary to select the respective mode to perform settings when making changes to the parameters, however, by using the G10 or G500 control panel, it is now possible to call up the required parameter in a single operation. It is also possible to call up parameters for each mode.

S6L.	Logic switching for thread trim safety signal S6	0022
AT.	Automatic operation	0033
TL.	Thread trim prevention signal	0034

[Ex.] Checking parameter "AT" call-up No. "33" from list.



G 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)

G Multi-Function, Interchangeability

Full Functionality

- The G Series retains all the operability and multi-functionality of the XC-F Series! The control box uses the same connectors as the XC-F Series, enabling easy connection.
- The settings data save function has been expanded to enable saving of settings data from 1 model to 2 models.
- A parameter change difference display has been added. (A flashing dot (.) displays at the changed parameter.)
- 2 types of function setting can now be performed with a single input.



Interchangeability

The XC-KE-01P detector, XC-FM-2, XC-FM-3 (LS2-1380only), and LE-FA presser foot lifter units, and XC-CVS-2 variable speed pedal can all be used as is. The XL-554 motor can be used with an optional attachment bracket.

Control Panel

XC-G10 and XC-G500 Series control panels are available. The existing operation panel can be attached to and removed from the XC-G10 Series control panel. Significant enhancements have been made to the operability of the XC-G500 Series control panel over existing functionality (XC-E500), and the settings data memory has been doubled.

Options

Control panel	XC-G10S (control box attachment type) XC-G10L XC-G500	} (Impossible to use it together)
Auto presser foot lifter unit	XC-FM-2 : Electromagnetic type (24V) XC-FM-3 : LS2-1380 only LE-FA:Air type (shared30V / 24Vuse)	
Variable speed pedal	XC-CVS-2 : 3-speed pedal, standing machine	
Lever unit (separated type)	XC-GL-1-SET : 1-step kick-back use (installation plate, extension cable set) XC-GL-2-SET : 2-step kick-back use (installation plate, extension cable set)	
Extension cables	1.0m motor cable (200V) : K14M52158002 0.6m detector cable : K14M717324830 1.0m encoder cable : K14M71725402	
Installation metal fittings	New motor and old control box : K14M72354001 Old motor and new control box : K14M72354101	



Motor, Control Box Models

Control Box

Model	Output	Power supply		Functions
		Phase	Voltage	
XC-GMF-10-05	550W	Single-phase	100 to120V	Full functionality including auto thread trimming, presser foot lifting, fixed-stitch stitching, continuous stitching and backtacking. Equipped with step sequence, simple sequence and computer communication functions (when connected to control panel). Equipped with 8 solenoid drive outputs, 2 electromagnetic valve outputs, 1 small-signal output and 14 input terminals including a variable voltage input.
XC-GMF-20-05	550W	Three/single-phase <small>Note</small>	200 to240V	

Motor

Model	Power supply		Output	Tapered shaft
	Phase	Voltage		
XC-G554-10	Single-phase	100 to 120V	550W	Tapered shaft
XC-G554-2	Three/single-phase <small>Note</small>	200 to 240V	550W	Tapered shaft

Note : Please refer to the instruction manual for details of the connection method.

Support for Each Machine

Compatibility Settings Table for Adapted Machines

		Adapted Machine	XC-GMF
Function /Model	Lock stitching		◎
	Overlock		○
	Chain stitching		○
	Cross stitching		○
	Whipstitching		○

○Needle positioner function : ◎Thread trim function.

Control Panel Compatibility

