

MELSOFT

MR Configurator2 Version1

SW1DNC-MRC2-_ INSTALLATION GUIDE

Thank you for choosing the MELSOFT MR Configurator2.

To optimize the use of the MR Configurator2, please read over this Installation Guide and the instruction manual of the servo amplifier unit and etc. to be used before using the software. After reading the Installation Guide, always place this Installation Guide in a safe place.

Safety Instructions

(Always read these instructions before using the equipment.)

Do not attempt to install, operate, maintain or inspect the servo amplifier and servo motor until you have read through this Installation Guide, and appended documents carefully and can use the equipment correctly. Do not use the servo amplifier and servo motor until you have a full knowledge of the equipment, safety information and instructions.

In this Installation Guide, the safety instruction levels are classified into "WARNING" and "CAUTION".



Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.



Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight injury to personnel or may cause physical damage.

Note that the ACAUTION level may lead to a serious consequence according to conditions. Please follow the instructions of both levels because they are important to personnel safety.

What must not be done and what must be done are indicated by the following diagrammatic symbols:



): Indicates what must not be done. For example, "No Fire" is indicated by 🕟 .



Indicates what must be done. For example, grounding is indicated by



In this Installation Guide, instructions at a lower level than the above, instructions for other functions, and so on are classified into "POINT".

After reading this Installation Guide, always keep it accessible to the operator.



Before executing the test mode, always read section 3.1 "Precautions for test mode".

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1. INTRODUCTION

1.1 Specifications

Using the communication function of the servo amplifier, the MR Configurator2 allows functions, such as parameter setting change, graph, program operation mode and test mode, to be implemented from a personal computer.

When connecting to the servo amplifier (MR-J5 series/MR-JET series) *6

Item	Servo amplifier	MR-J5-A (-RJ)	MR-J5G (-RJ)*5*8	MR-J5G -N1*5	MR-J5(W)-B (-RJ)	MR-JET-G *5	MR-JET-G -N1*5
	USB	0	0	0	0	0	0
Communication	RS-422 (RS-232C)						
Method	Ethernet		0	0		0	0
	Parameter Setting	0	0	0	0	0	0
_ ,	Network Parameter	0	0	0		0	0
Parameter	Axis Name Setting	0					
	Parameter Converter						
	Safety Parameter Setting		*70	*70			
Safety	Change Password		*7∘	*70			
	Initialize Password		*7∘	*70			
	Point Table		0	0		0	0
Positioning-	Program						
data	Indirect Addressing						
F	Cam Data						
	Display All	0	0	0	0	0	0
ŀ	I/O Monitor	0	0	0	0	0	0
Monitor	Graph	0	0	0	0	0	0
	ABS Data Display	0	0	0	0	0	0
	Object Monitor		0	0		0	0
	Alarm Display	0	0	0	0	0	0
	Alarm Onset Data	0	0	0	0	0	0
-	Drive Recorder	0	0	0	0	0	0
	No Motor Rotation	0	0	0	0	0	0
	System Configuration	0	0	0	0	0	0
Diagnosis	Life Diagnosis	0	0	0	0	0	0
2.0.9.100.0	Machine Diagnosis	0	0	0	0	0	0
	Gear Failure Diagnosis	0	0	0	0		
	Encoder Communication Circuit Diagnosis	0	0	0	0	0	0
	Fully Closed Loop Diagnosis	*10	*10	*10	*10	*10	*10
	Linear Diagnosis	*20	*20	*20	*20	*20	*20
	JOG Mode	*30	*30	*30	*30	*30	*30
	Positioning Mode	0	0	0	0	0	0
	Motor-less Operation	*40	*40	*40	*40	*40	*40
Test Mode	DO Forced Output	0	0	0	0	0	0
. 300 111000	Program Operation	0	0	0	0	0	0
F	Single-step Feed		0	0		0	0
-	Test Mode Information		0	0	0	0	0
	One-touch Tuning	0	0	0	0	0	0
F	Tuning	0	0	0	0	0	0
Adjustment	Multi-axis Tuning			,			
, tajaoti ilont	Machine Analyzer		0	•	0	0	
F	Advanced Gain Search						
	Update Parameter Setting Range				0	0	0
Tools	Machine Unit Conversion Display Setting			$\overline{}$	0		
	machine of it conversion display octiling						
Tools	Axis Label Name Settings	/	*10∘	*10∘	/	*10∘	*10∘

^{*1} Only available when operation mode is Fully closed loop control mode.

^{*2} Only available when operation mode is Linear servo motor control mode. *3 Not available when operation mode is Linear servo motor control mode.

^{*4} Only available when operation mode is Standard control mode.

^{*5} Switching to multi-axis project available.

^{*6} The software reset is supported.

^{*7} Only available when it is MR-J5-G-RJ, MR-J5W2-G, MR-J5W3-G, MR-J5D1-G, MR-J5D2-G, or MR-J5D3-G.

^{*8} MR-J5_-G(-RJ) includes MR-J5-G(-RJ), MR-J5W_-G(-RJ), and MR-J5D_-G.
*9 Only available when it is MR-J5-A(-RJ), MR-J5-G(-RJ), MR-J5-G, MR-J5-G-N1, MR-J5-G, or MR-JET-G-N1.
*10 Only available for multi-axis projects.

When connecting to the servo amplifier (MR-J4 series)

Item	Servo amplifier	MR-J4-A (-RJ)	MR-J4-B (-RJ)*5 *6	MR-J4-B -LL	MR-J4-B -RJ010	MR-J4-TM	MR-J4-GF (-RJ)*13
	USB	0	0	0	0	0	0
Communication Method	RS-422 (RS-232C)						
Method	Ethernet						0
	Parameter Setting	0	0	0	0	0	0
Doromotor	Network Parameter						
Parameter	Axis Name Setting	0					
	Parameter Converter	*40					*40
	Safety Parameter Setting	*7*80	*8*90			*80	*8*120
Safety	Change Password	*7*80	*8*90			*80	*8*120
	Initialize Password	*7*80	*8*90			*80	*8*120
	Point Table	*70					*110
Desitioning data	Program	*70					
Positioning-data	Indirect Addressing	*70					
	Cam Data	*70					*110
	Display All	0	0	0	0	0	0
	I/O Monitor	0	0	0	0	0	0
Monitor	Graph	0	0	0	0	0	0
	ABS Data Display	0	0	0	0	0	0
	Object Monitor						
	Alarm Display	0	0	0	0	0	0
	Alarm Onset Data	0	0	0	0	0	0
	Drive Recorder	0	0	0	0	0	0
	No Motor Rotation	0	0	*10∘	0	0	0
	System Configuration	0	0	0	0	0	0
Diagnosis	Life Diagnosis	0	0	0	0	0	0
Diagnosis	Machine Diagnosis	0	0	0	0	0	0
	Gear Failure Diagnosis						
	Encoder Communication Circuit Diagnosis						
	Fully Closed Loop Diagnosis	*10	*10			*1 ∘	*1∘
	Linear Diagnosis	*20	*20			*20	*20
	JOG Mode	*30	*30	0	0	*30	*30
	Positioning Mode	0	0	0	0	0	0
	Motor-less Operation	*40	*40		0	*40	*40
Test Mode	DO Forced Output	0	0		0	0	0
	Program Operation	0	0	0	0	0	0
	Single-step Feed	*70					*110
	Test Mode Information	0	0	0	0	0	0
	One-touch Tuning	0	0	*10∘	0	0	0
	Tuning	0	0	0	0	0	0
Adjustment	Multi-axis Tuning						
	Machine Analyzer	0	0	0	0	0	0
	Advanced Gain Search						
	Update Parameter Setting Range	0	0	0	0	0	0
Tools	Machine Unit Conversion Display Setting		0	0	0		***
	Axis Label Name Settings						*140
	Add-ons						

^{*1} Only available when operation mode is Fully closed loop control mode. *2 Only available when operation mode is Linear servo motor control mode.

Standard control mode: MR-J3-B

- Linear servo motor control mode: MR-J3-B-RJ004
- Fully closed control mode: MR-J3-B-RJ006
 DD Motor control mode: MR-J3-B-RJ080W

Please select the "MR-J3-B extension function" when using as MR-J3-B extension function.

^{*3} Not available when operation mode is Linear servo motor control mode.

^{*4} Only available when operation mode is Standard control mode.

^{*5} The same as MR-J3-B in MR-J3-B compatibility mode.

^{*6} The same as MR-J4-B (-RJ) in MR-J3-B extension function (Several restrictions).

^{*7} Only available when it is MR-J4-A-RJ.

^{*8} Functional safety unit MR-D30 is necessary.

^{*9} Only available when it is MR-J4-B-RJ.

^{*10} Cannot be used in pressure control mode.
*11 Only available when station-specific mode is I/O mode.

^{*12} Only available when it is MR-J4-GF-RJ.
*13 Switching to multi-axis project available.
*14 Only available for multi-axis projects.

When connecting to the servo amplifier (MR-JE series)

VVIICITO	onnecting to the servo amplifier (MR- Servo amplifier		MD IF D/F)	MD IF C*4
Item		MR-JE-A	MR-JE-B(F)	MR-JE-C*1
Communication	USB	0	0	0
Communication Method	RS-422 (RS-232C)			
	Ethernet			0
	Parameter Setting	0	0	0
Parameter	Network Parameter			
Parameter	Axis Name Setting	0		
	Parameter Converter	0		
	Safety Parameter Setting			
Safety	Change Password			
	Initialize Password			
	Point Table	0		0
	Program	0		
Positioning-data	Indirect Addressing	0		
	Cam Data	0		
	Display All	0	0	0
	I/O Monitor	0	0	0
Monitor	Graph	0	0	0
	ABS Data Display		0	0
	Object Monitor			
	Alarm Display	0	0	0
	Alarm Onset Data	0	0	0
	Drive Recorder	0	0	0
	No Motor Rotation	0	0	0
	System Configuration	0	0	0
Diagnosis	Life Diagnosis	0	0	0
	Machine Diagnosis	· ·	0	0
	Gear Failure Diagnosis			
	Encoder Communication Circuit Diagnosis			
	Fully Closed Loop Diagnosis			
	Linear Diagnosis			
	JOG Mode	0	0	0
	Positioning Mode	0	0	0
	Motor-less Operation	0	0	0
Test Mode	DO Forced Output	0	0	0
	Program Operation	0	•	0
	Single-step Feed	0		
	Test Mode Information	0	0	0
	One-touch Tuning	0	0	0
A ali a t t	Tuning Multi ovic Tuning	· ·	0	•
Adjustment	Multi-axis Tuning			
	Machine Analyzer	•	0	0
	Advanced Gain Search			
	Update Parameter Setting Range	•	0	•
Tools	Machine Unit Conversion Display Setting		0	*0.0
	Axis Label Name Settings			*20
	Add-ons			

^{*1} Switching to multi-axis project available.
*2 Only available for multi-axis projects.

When connecting to the servo amplifier (MR-J3 series/MR-JN-A)

Item	Servo amplifier	MR-J3-A	MR-J3-B	MR-J3-B -RJ006	MR-J3-B -RJ004	MR-J3-B -RJ080W	MR-J3-T	MR-JN-A
	USB	0	0	0	0	0	0	0
Communication	RS-422 (RS-232C)	0					0	
Method	Ethernet							
	Parameter Setting	0	0	0	0	0	0	0
	Network Parameter							
Parameter	Axis Name Setting	0					0	0
	Parameter Converter							
	Safety Parameter Setting							
Safety	Change Password							
	Initialize Password							
	Point Table						0	0
	Program							0
Positioning-data	Indirect Addressing							
	Cam Data							
	Display All		0	0		0	0	0
	I/O Monitor	0	0	0	0	0	0	0
Monitor	Graph	0	0	0	0	0	0	0
	ABS Data Display	0	0	0	0	0	0	
	Object Monitor							
	Alarm Display	0	0	0	0	0	0	0
	Alarm Onset Data	0	0	0	0	0	0	0
	Drive Recorder	\sim						0
	No Motor Rotation		•			0	0	0
	System Configuration	0	0	0	0	0	0	0
	Life Diagnosis	0	0	0	0	0	0	0
	Machine Diagnosis	$\overline{}$						
Diagnosis	Gear Failure Diagnosis							
	Encoder Communication Circuit Diagnosis							
	Fully Closed Loop Diagnosis			0				
	Linear Diagnosis				0			
	JOG Mode	0	0	0		0	0	0
	Positioning Mode	0	0	0	0	0	0	0
	Motor-less Operation	0	0	0			0	0
Test Mode	DO Forced Output	0	0	0	0	0	0	0
	Program Operation	0	0	0	0	0	0	0
	Single-step Feed Test Mode	· ·	0	0	· ·	0	0	0
	Information							
	One-touch Tuning							
	Tuning	· ·	0	0	· ·	0	0	0
Adjustment	Multi-axis Tuning							
	Machine Analyzer Advanced Gain	0	0	0	0	· ·	0	
Tools	Search Update Parameter	0	0	0	0		0	
	Setting Range Machine Unit Conversion Display	0	0	0	0	0	0	0
10015	Setting Axis Label Name							
	Settings							
	Add-ons							

When via MT Developer2 (MR-J5 series)

VVIICII	//a MT Developer2 (MR-J5 series)	
Item	Servo amplifier	MR-J5(W)-B (-RJ)*5
Communication	SSCNET III	
Method	SSCNET III/H	0
	Parameter Setting	0
	Network Parameter	
Parameter	Axis Name Setting	
	Parameter Converter	0
	Safety Parameter Setting	
Safety	Change Password	
Culcty	Initialize Password	
	Point Table	
	Program	
Positioning-data	Indirect Addressing	
	Cam Data	
	Display All	0
	I/O Monitor	0
Monitor	Graph	0
IVIOLITO	'	
	ABS Data Display	0
	Object Monitor	
	Alarm Display	0
	Alarm Onset Data	0
	Drive Recorder	0
	No Motor Rotation	0
5	System Configuration	0
Diagnosis	Life Diagnosis	0
	Machine Diagnosis	0
	Gear Failure Diagnosis	0
	Encoder Communication Circuit Diagnosis	0
	Fully Closed Loop Diagnosis	*10
	Linear Diagnosis	*20
	JOG Mode	*30
	Positioning Mode	0
	Motor-less Operation	*40
Test Mode	DO Forced Output	0
	Program Operation	0
	Single-step Feed	
	Test Mode Information	0
	One-touch Tuning	0
	Tuning	0
Adjustment	Multi-axis Tuning	0
	Machine Analyzer	0
	Advanced Gain Search	
	Update Parameter Setting Range	0
Tools	Machine Unit Conversion Display Setting	
10010	Axis Label Name Settings	
	Add-ons	

^{*1} Only available when operation mode is Fully closed loop control mode.
*2 Only available when operation mode is Linear servo motor control mode.
*3 Not available when operation mode is Linear servo motor control mode.
*4 Only available when operation mode is Standard control mode.
*5 Available when it is MT Developer2 Version 1.170C or later.

When via MT Developer2 (Except MR-J5 series) *9

Item	Servo amplifier	MR-J4-B (-RJ)*6 *7	MR-J4-B -LL	MR-J3-B	MR-J3-B -RJ006	MR-J3-B -RJ004	MR-J3-B -RJ080W	MR- MT1200	MR-MT 2□□□ *12
Communication	SSCNET III			0	0	0	0	0	
Method	SSCNET III/H	0	0						0
	Parameter Setting	0	0	0	0	0	0	0	0
Parameter	Network Parameter								
Farameter	Axis Name Setting								
	Parameter Converter								
Safety	Safety Parameter Setting	*8*10∘							
Salety	Change Password	*8*10∘							
	Initialize Password	*8*10°							
	Point Table								
Positioning-	Program								
data	Indirect Addressing								
	Cam Data								
	Display All	0	0	0	0	0	0		
	I/O Monitor	0	0	0	0	0	0		
Monitor	Graph	0	0	0	0	0	0		
	ABS Data Display	0	0	0	· /	0	0		
	Object Monitor								
	Alarm Display	0	0	0	0	0	0	0	0
	Alarm Onset Data	0	0	0		0	0		
	Drive Recorder	0	0						
	No Motor Rotation	0	*110	0	0	0	0		
	System Configuration	0	0	0	0	0	0	0	0
	Life Diagnosis	0	0	0	0	0	0		
Diagnosis	Machine Diagnosis	0	0						
	Gear Failure Diagnosis								
	Encoder Communication Circuit Diagnosis								
	Fully Closed Loop Diagnosis	*10			0				
	Linear Diagnosis	*20				0			
	JOG Mode	*30	0	*50	*50		*50		
	Positioning Mode	0	0	*50	*50	*50	*50		
	Motor-less Operation	*40		0	0				
Test Mode	DO Forced Output	0		0	0	0	0		
	Program Operation	0	0	*50	*5∘	*50	*50		
	Single-step Feed								
	Test Mode Information	0	0	*50	*5∘	*50	*50		
	One-touch Tuning	0	*110						
	Tuning	0	0	0	0	0	0		
Adjustment	Multi-axis Tuning	0							
	Machine Analyzer	0	0	*50	*50	*50	*50		
	Advanced Gain Search			0	0	0			
	Update Parameter Setting Range	0	0	0	0	٥	0		
Tools	Machine Unit Conversion Display Setting								
	Axis Label Name Settings								
	Add-ons								

- Standard control mode: MR-J3-B
- Linear servo motor control mode: MR-J3-B-RJ004
 *7 Can not be used as MR-J3-B extension function.
- Fully closed control mode: MR-J3-B-RJ006

Please select the "MR-J3-B" series from controller when connecting to MR-J3-B extension function.

^{*1} Only available when operation mode is Fully closed loop control mode.
*2 Only available when operation mode is Linear servo motor control mode.
*3 Not available when operation mode is Linear servo motor control mode.

^{*4} Only available when operation mode is Standard control mode.

^{*5} Not available for Q17[]H.
*6 The same as MR-J3-B in MR-J3-B compatibility mode.

DD Motor control mode: MR-J3-B-RJ080W

^{*8} Functional safety unit MR-D30 is necessary.

^{*9} Each function of MR Configurator2 will be used as MT Developer2 function in MT Developer2 Version 1.100E or later.
*10 Only available when it is MR-J4-B-RJ.
*11 Cannot be used in pressure control mode.

^{*12} Available when it is MT Developer2 Version 1.128J or later.

When via GX Works2/GX Works3 (MR-J5 series/MR-JET series) *2 *3

vvnen	via GX Works2/GX Works3 (MR-J5 s	eries/MR-JE i	series) 12 13	·
Item	Servo amplifier	MR-J5G (-RJ)*1*4	MR-J5(W)-B (-RJ)*5	MR-JET-G*1
	SSCNET III			
Communication	SSCNET III/H		0	
Method	CC-Link IE Field			
	CC-Link IE TSN	0		0
	Parameter Setting	0	0	0
	Network Parameter	0		0
Parameter	Axis Name Setting			
	Parameter Converter		0	
	Safety Parameter Setting			
Safety	Change Password			
	Initialize Password			
	Point Table			
	Program			
Positioning-data	Indirect Addressing			
	Cam Data			
	Display All		0	
	I/O Monitor		0	
Monitor	Graph		0	
	ABS Data Display		0	
	Object Monitor			
	Alarm Display		0	
	Alarm Onset Data		0	
	Drive Recorder		0	
	No Motor Rotation		0	
	System Configuration		0	
Diagnosis	Life Diagnosis		0	
	Machine Diagnosis		0	
	Gear Failure Diagnosis		0	
	Encoder Communication Circuit Diagnosis		0	
	Fully Closed Loop Diagnosis		*6°	
	Linear Diagnosis		*70	
	JOG Mode		*80	
	Positioning Mode		0	
	Motor-less Operation		*90	
Test Mode	DO Forced Output		0	
	Program Operation		0	
	Single-step Feed			
	Test Mode Information		0	
	One-touch Tuning		0	
	Tuning		0	
Adjustment	Multi-axis Tuning		0	
	Machine Analyzer		0	
	Advanced Gain Search			
	Update Parameter Setting Range		0	
Tools	Machine Unit Conversion Display Setting			
Tools	Axis Label Name Settings			
	Add-ons			
	is GY Worke3 Version 1 055H or later	_	_	_

^{*1} Available when it is GX Works3 Version 1.055H or later.

*2 The software reset is supported.

*3 Including Setting/monitoring tools for the C Controller module/CW Configurator/CC-Link IE TSN Configurator.

*4 MR-J5_-G(-RJ) includes MR-J5-G(-RJ), MR-J5W_-G(-RJ), and MR-J5D_-G.

*5 Available when it is GX Works2 Version 1.610L or later.

*6 Only available when operation mode is Fully closed loop control mode.

*7 Only available when operation mode is Linear servo motor control mode.

*8 Not available when operation mode is Linear servo motor control mode.

*9 Only available when operation mode is Standard control mode.

When via GX Works2/GX Works3 (Except MR-J5 series) *9 *13

	ICH VIA OA WORSZ/OA		(=,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	VII Y 00 00I	163) 3	10				
Item	Servo amplifier	MR-J4 -B(-RJ) *6 *7	MR-J4 -B -RJ010	MR-J4 -GF(-RJ) *11	MR-JE -B(F)	MR-J3 -B	MR-J3 -B -RJ006	MR-J3 -B -RJ004	MR-J3 -B -RJ080W	MR- MT1200
	SSCNET III	<u> </u>	110010			_	0	0	0	_
						0	0		0	0
Communication	SSCNET III/H	· ·			0					
Method	CC-Link IE Field		0	0						
	CC-Link IE TSN									
	Parameter Setting	0	0	0	0	*50	*5○	*5○	*5○	*5○
Parameter	Network Parameter									
i didilicici	Axis Name Setting									
	Parameter Converter									
	Safety Parameter Setting	*8*100		*8*14 *15○						
Safety	Change Password	*8*10∘		*8*14 *15°						
	Initialize Password	*8*10∘		*8*14 *15°						
	Point Table			*120						
Positioning-data	Program									
1 John Jing-data	Indirect Addressing									
	Cam Data			*12*150						
	Display All	0	0	0	0	0	0	0	0	
	I/O Monitor	0	0	0	0	0	0	0	0	
Monitor	Graph	0	0	0	0	0	0	0	0	
	ABS Data Display	0	0	0	0	0	0	0	0	
	Object Monitor									
	Alarm Display		0	0		0	0		0	0
	Alarm Onset Data	0	0	0	0	0	0	0	0	
	Drive Recorder	0	0	0	0	Š	Š	Š		
	No Motor Rotation	0	0	0	0	0	0		0	
	System Configuration	0	0	0	0	0	0	0	0	
Diagnosis	Life Diagnosis	0	0	0	0	0	0		0	
Diagnosis	Machine Diagnosis	0	0	0	0					
	Gear Failure Diagnosis									
	Encoder Communication Circuit Diagnosis									
	Fully Closed Loop Diagnosis	*10		*10			0			
	Linear Diagnosis	*20		*20				0		
	JOG Mode	*30	0	*30	0					
	Positioning Mode	0	0	0	0					
	Motor-less Operation	*40	0	*40	0	0	0			
Test Mode	DO Forced Output	0	0	0	0	0	0	0	0	
	Program Operation	0	0	0	0					
	Single-step Feed			*120						
	Test Mode Information	0	0	0	0	0	0	0	0	
	One-touch Tuning	0	0	0	0					
	Tuning	0	0	0	0					
Adjustment	Multi-axis Tuning	0								
	Machine Analyzer	0	0	0	0					
	Advanced Gain Search									
	Update Parameter Setting Range	0	0	0	0	0	0	0	0	
Tools	Machine Unit Conversion Display Setting	0	0		0	0	0	0	0	
	Axis Label Name Settings									
	Add-ons									
*10:										

- *1 Only available when operation mode is Fully closed loop control mode.
- *2 Only available when operation mode is Linear servo motor control mode.
- *3 Not available when operation mode is Linear servo motor control mode.
- *4 Only available when operation mode is Standard control mode.
 *5 Not available for online setting in LD77MH[]. Please read/write parameters using GX Works2.
- *6 The same as MR-J3-B in MR-J3-B compatibility mode.
 - Standard control mode: MR-J3-B

- Fully closed control mode: MR-J3-B-RJ006
- Linear servo motor control mode: MR-J3-B-RJ004 *7 Can not be used as MR-J3-B extension function.
- DD Motor control mode: MR-J3-B-RJ080W

- Please select the "MR-J3-B" series from controller when connecting to MR-J3-B extension function.
- *8 Functional safety unit MR-D30 is necessary.
- *9 Each function of MR Configurator2 will be used as GX Works2 function in GX Works2 Version 1.521T or later and GX Works3 function in GX Works3.
- *10 Only available when it is MR-J4-B-RJ.
- *11 Available when it is GX Works3 Version 1.022Y or later.
- *12 Only available when station-specific mode is I/O mode.
- *13 The setting/monitoring tool for C language controller and CW Configurator are also included. *14 Only available when it is MR-J4-GF-RJ.
- *15 Available when it is GX Works3 Version 1.030G or later.

1.2 System configuration

1.2.1 Components

To use the MR Configurator2, the following components are required in addition to the servo amplifier and servo motor. Configure the system according to the Installation Guide of each equipment.

Equipme	nt	Description						
		Microsoft® Windows® 11 Education Operating System						
		Microsoft® Windows® 11 Enterprise Operating System						
		Microsoft® Windows® 11 Pro Operating System						
		Microsoft® Windows® 11 Home Operating System						
		Microsoft® Windows® 10 Education Operating System						
		Microsoft® Windows® 10 Enterprise Operating System						
		Microsoft® Windows® 10 Pro Operating System						
		Microsoft® Windows® 10 Home Operating System						
		Microsoft® Windows® 10 IoT Enterprise 2016 LTSB Operating System *1						
	os	Microsoft® Windows® 8.1 Enterprise Operating System						
	05	Microsoft® Windows® 8.1 Pro Operating System						
		Microsoft® Windows® 8.1 Operating System						
		Microsoft® Windows® 8 Enterprise Operating System						
		Microsoft® Windows® 8 Pro Operating System						
(Nata 4 0 0 4 5)		Microsoft® Windows® 8 Operating System						
(Note 1, 2, 3, 4, 5)		Microsoft® Windows® 7 Enterprise Operating System						
Personal computer		Microsoft® Windows® 7 Ultimate Operating System						
		Microsoft® Windows® 7 Professional Operating System						
		Microsoft® Windows® 7 Home Premium Operating System						
		Microsoft® Windows® 7 Starter Operating System						
		Windows 11						
		2 or more cores on a compatible 64-bit processor or System on a Chip (SoC)						
	CPU	Other than Windows 11						
		Desktop PC: Intel [®] Celeron [®] Processor 2.8 GHz or higher						
		Laptop PC: Intel® Pentium® M Processor 1.7 GHz or higher						
		Windows 11						
		4 GB or more recommended (For 64-bit edition)						
	Memory	Other than Windows 11						
		1 GB or more recommended (For 32-bit edition)						
		2 GB or more recommended (For 64-bit edition)						
	Hard Disk	1.5 GB or more of free space						
Browser	•	Internet Explorer 8.0 or more						
Diaplay		One whose resolution is 1024 × 768 or more and that can provide a high color (16 bit) display.						
Display		Connectable with the above personal computer.						
Keyboard	d	Connectable with the above personal computer.						
Mouse		Connectable with the above personal computer.						
Printer		Connectable with the above personal computer.						
USB cab	le	MR-J3USBCBL3M						
		Cable type: Category 5e or higher, (STP) straight cable						
Ethernet ca	able	Standard: IEEE802.3 1000BASE-T or ANSI/TIA/EIA-568-B (Higher than Category 5e)						
		Connector: RJ-45 connector with shield						

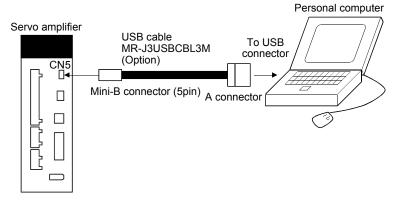
^{*1:} Only the 64-bit edition is supported.

- Note 1. If .NET Framework 3.5 (including .NET 2.0 and 3.0) has been disabled, it is necessary to enable it.
 - 2. If any of the following functions is used, this product may not operate normally.
 - Start of application in Windows® compatible mode
 - Fast user switching
 - Remote desktop
 - Windows XP Mode
 - Windows Touch or Touch
 - Modern UI
 - Client Hyper-V
 - Tablet Mode
 - Virtual desktop
 - High Contrast Mode
 - Unified Write Filter
 - 3. The screen of this product may not operate normally in the following occasions:
 - The size of text and other items on the screen is other than 100% (96DPI, 9pt, etc.)
 - Changed the resolution of the screen during operating
 - Multi-display is set
 - 4. Please use the product as "Standard User" or "Administrator".
 - 5. Surrogate pair characters and environment dependent characters are not available.

1.2.2 Configuration

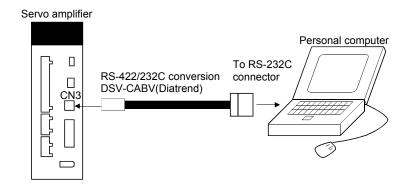
(1) For use of USB

Run/operate the servo amplifier of axis 1. As the USB cable, use the optional MR-J3USBCBL3M.



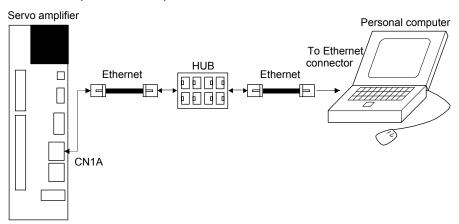
(2) For use of RS-422

Run/operate the servo amplifier of axis 1. It is recommended to use the following cable.



(3) For use of Ethernet

Run/operate the servo amplifiers of multiple axes.

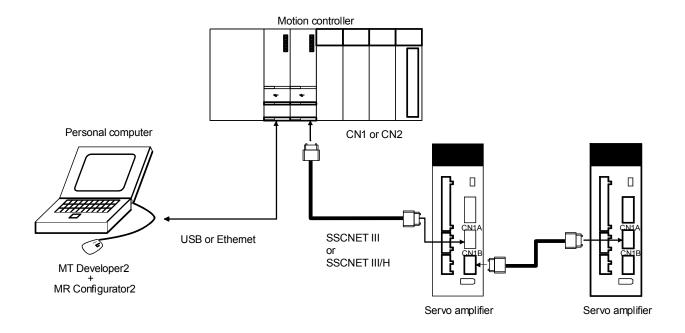


(4) For setting up via MT Developer2

When controlling several servo amplifiers via a motion controller, start MR Configurator2 from MT Developer2 *1, and communicate through the following way.

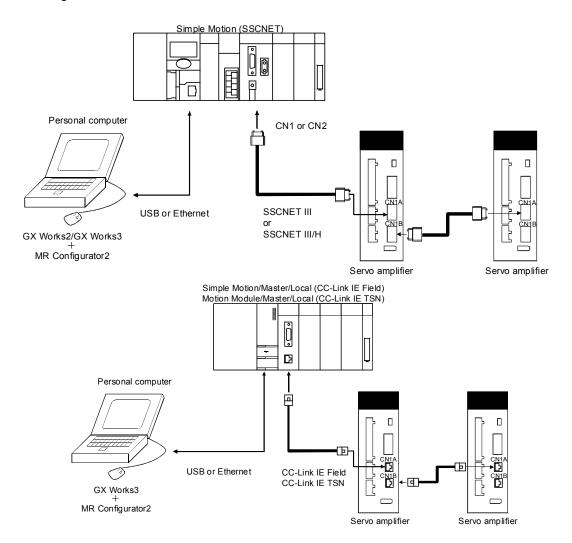
*1 Each function of MR Configurator2 will be used as MT Developer2 function in MT Developer2 Version 1.100E or later.

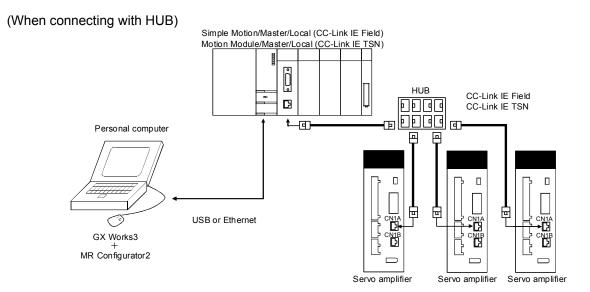
MR Configurator2 cannot be started in the MT Developer2 before Version 1.100E.



- (5) For setting up via GX Works2/GX Works3 *2
 - When controlling several servo amplifiers via a simple motion module, motion module, or master/local module, start MR Configurator2 from GX Works2/GX Works3 *3, and communicate through the following ways.
 - *2 Including Setting/monitoring tools for the C Controller module/CW Configurator.
 - *3 Each function of MR Configurator2 will be used as GX Works2 function in GX Works2 Version 1.521T or later and as GX Works3 function in GX Works3.

 MR Configurator2 cannot be started in the GX Works2 before Version 1.521T.

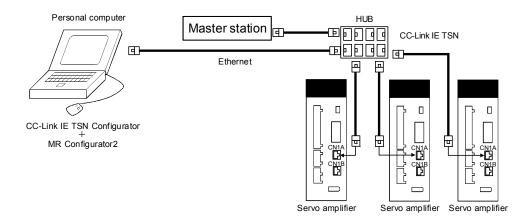




(6) For setting up via CC-Link IE TSN Configurator

When controlling several servo amplifiers from the master station via a HUB, start MR Configurator2 from CC-Link IE TSN Configurator *4, and communicate through the following way.

*4 MR Configurator2 cannot be started in the CC-Link IE TSN Configurator before Version 1.003D.



1.3 Basic terms

1) Mouse pointer

An on-screen arrow which moves with movements of the mouse.

2) Point

To move the mouse pointer to a particular item or position on the screen.

3) Click

To press and release the left button of the mouse once.

4) Double-click

To press and release the left button of the mouse twice.

5) Drag

To hold down the left button of the mouse and move the mouse.

6) Focus

Highlights characters, button or the like when the menu or button is ready to accept an input from the keyboard.

7) Text box

Box used to enter characters.

8) List box

Box used to select one of several items.



9) Combo box

Box used to select one of several items.

10) Check box

Box used to select one or more of several items. When a choice is made a mark appears in the box.

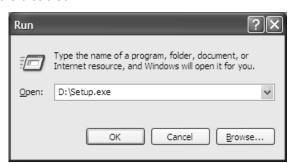
11) Option button

Button used to select only one of several items. When a choice is changed
moves to a new choice.

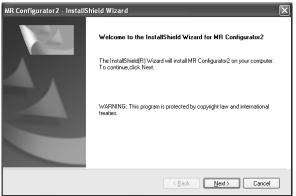
1.4 Installation procedure

Perform installation with the administrator authority (computer administrator authority). Herein, the hard disk drive of the personal computer is explained as C and the disc drive as D. Before executing this program, be sure to close all other Windows programs.

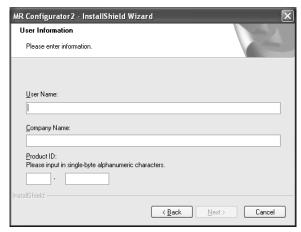
It is necessary to enable .NET Framework 3.5 (including .NET 2.0 and 3.0) on the personal computer when it is disabled.



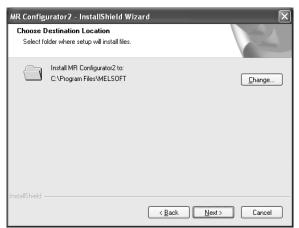
1) Insert the disc into Drive D (disc drive). Then, click the "Start" button on the task bar to open the menu, and click "RUN". When the left window as shown on the left appeared, enter "D:\Setup.exe" and click the "OK" button.



2) After the above window, the left window appears. Click the "Next" button.



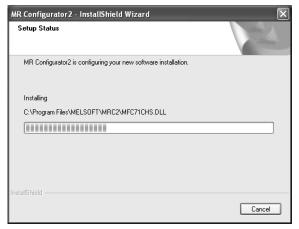
3) After the Setup status screen, the User information screen appears. Enter the user name and company name. Also, enter the product ID on the license agreement which was provided with the product in single-byte alphanumeric characters, and click the "Next" button.



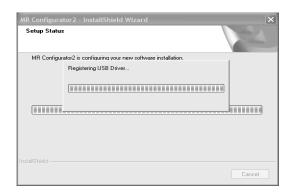
4) The Select installation destination screen appears. Specify the installation destination, and click the "Next" button. This starts installation.



5) Information for starting the program file copy is displayed. Click the "Next" button to start the installation.



6) The Setup status screen appears.



7) The driver installation window appears.

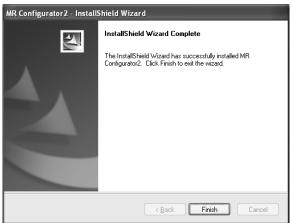
POINT

• Either of the security warning screens shown below appears. Select "Install this driver software anyway" or click the "Install" button. (The screens do not appear after the USB driver is registered.)





• If the driver is not installed, communication may be partly interrupted. In this case, reinstall MR Configurator2.



8) When installation is completed, the next screen appears. Click the "Finish" button to end the setup. When restart message appears, starting again to use MR Configurator2.

The register of start menu changes from "MELSOFT Application" to "MELSOFT" in Ver. 1.45X.

POINT

- In the corresponding window, to stop installation, click the "Cancel" button.
- If an overwrite install has been done to upgrade the version of MR Configurator2, the following message may be displayed. In this case, select "This program installed correctly".



1.5 Automatic device driver software installation

Device driver software is automatically installed when the servo amplifier powered on is connected with the personal computer via USB for the first time.

(1) When Windows® 7 is used





Indications on the left appear during automatic registration.

(Operation is not required.)

(2) When Windows® 8 or later is used

It will not be displayed.

MEMO		

1. INTRODUCTION

2. HOW TO USE THE SOFTWARE

2.1 Operation

The method of selecting the command is the operation procedures using the mouse. Unavailable commands are grayed out.

2.1.1 Start-up

- (1) When connecting to the servo amplifier Click "MR Configurator2" on the desktop.
- (2) When connecting to the servo amplifiers of multiple axes via Ethernet or Bus connection (via HUB) Click "MR Configurator2" on the desktop.
- (3) When operating via motion controller (Before MT Developer2 Version 1.100E)

 Double-click the "Servo Parameter" icon of the Motion controller programming software MT Developer2.
- (4) When operating via simple motion module (Before GX Works2 Version 1.521T) Double-click the "Servo Parameter" icon of the simple motion module programming software tool, which is integrated in the PLC programming software GX Works2.
- (5) When operating via motion controller (MT Developer2 Version 1.100E or later)
 Each function of MR Configurator2 will be used as MT Developer2 function. Refer to the "Operating Servo Amplifier" of MT Developer2 HELP when using each function of MR Configurator2.
- (6) When operating via SSCNET III/H compatible simple motion module (GX Works2 Version 1.521T or later and GX Works3)
 Each function of MR Configurator2 will be used as GX Works2 and GX Works3 function. Refer to the "Servo Amplifier Operation" in Simple Motion Setting Tool HELP of GX Works2/GX Works3 when using each function of MR Configurator2.
- (7) When operating from the CC-Link IE Field Configuration screen of GX Works3 via CC-Link IE Field *1 From the [Navigation window] of GX Works3, select [Parameter] → [Module Information] → Target module → [Basic Settings] → [Network Configuration Settings] → <Detailed Setting> to open the CC-Link IE Field Configuration screen.

In the CC-Link IE Field Configuration screen, set up servo amplifier model manufactured by Mitsubishi Electric, and then double-click the "servo amplifier" icon.

^{*1} Including Setting/monitoring tools for the C Controller module/CW Configurator.

(8) When operating from the CC-Link IE TSN Configuration screen of GX Works3 via CC-Link IE TSN *1 From the [Navigation window] of GX Works3, select [Parameter] → [Module Information] → Target module → [Basic Settings] → [Network Configuration Settings] → <Detailed Setting> to open the CC-Link IE TSN Configuration screen.

In the CC-Link IE TSN Configuration screen, set up servo amplifier model manufactured by Mitsubishi Electric, and then double-click the "servo amplifier" icon.

(9) When operating from the CC-Link IE TSN Configuration screen of CC-Link IE TSN Configurator via CC-Link IE TSN

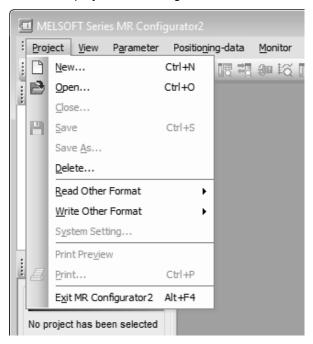
From the [Navigation window] of CC-Link IE TSN Configurator, select [Network] \rightarrow [Master Station] \rightarrow [Network Configuration Settings], and then double-click the "servo amplifier" icon.

^{*1} Including Setting/monitoring tools for the C Controller module/CW Configurator.

2.1.2 Project

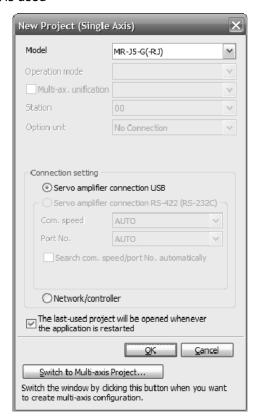
(1) New

Clicking "Project" on the menu bar displays the following menu.



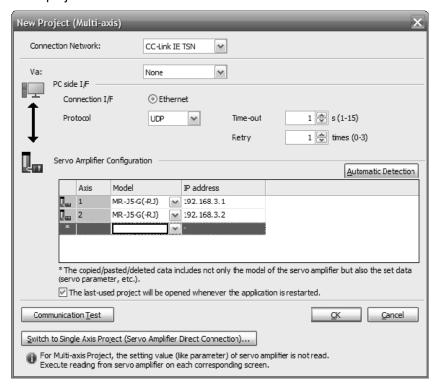
Clicking "New" in the sub menu displays the following window.

(a) When a single axis project is used



To connect via network, please select "Switch to Multi-axis Project".

(b) When a multi-axis project is used



1) Manually configuring settings

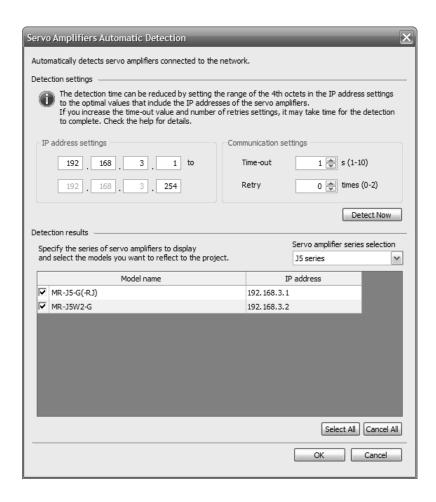
Select models and configure connection settings manually, and click the "OK" button.

2) Configuring settings using automatic detection

Detect servo amplifiers connected to the network to automatically set the servo amplifier configuration.

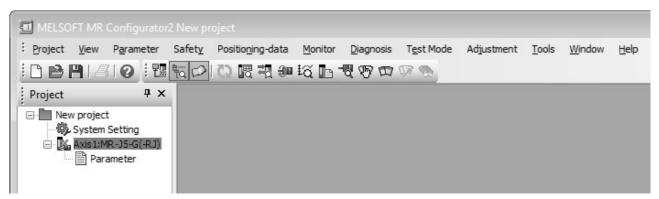
It may not be available depending on the setting of "Connection Network". It can only be used when the device to connect via is "None".

- 1. Click the "Automatic Detection" button to open the Servo Amplifiers Automatic Detection screen.
- 2. In "IP address settings" under "Detection settings", specify the target range for automatic detection.
- 3. Click the "Detect Now" button and wait until the detection is done.
- 4. Detected servo amplifier models and their IP addresses are displayed under "Detection results".



- 5. By using model selection checkboxes, you can select the models you want to reflect to the servo amplifier configuration.
- 6. Click the "OK" button to reflect selected models to the servo amplifier configuration of the project.

After the model selection and connection settings are done, clicking "OK" button displays the following window.



(2) Open

Read the input information from the saved file.

Clicking "Open" in the sub menu opens a window, where you can specify the project.

(3) Close

Close the currently open project.

Clicking "Close" in the sub menu closes the project.

(4) Save

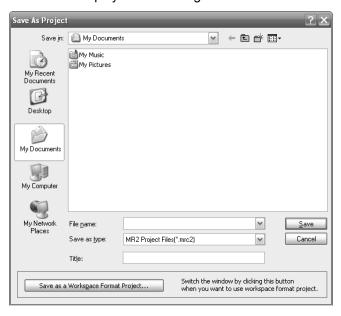
Modify and save the currently open project.

Clicking "Save as project" in the sub menu saves the project.

(5) Save As

Save the current input information into a file. If the information to be repeatedly input is saved, that information can be read by clicking "Open".

Clicking "Save As" in the sub menu displays the following window.

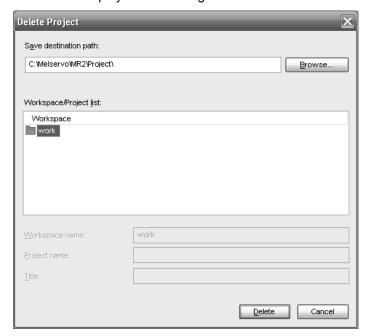


Note)

When you want to save the existing workspace format MR Configurator2 project, click the "Save as a Workspace Format Project" button.

(6) Delete

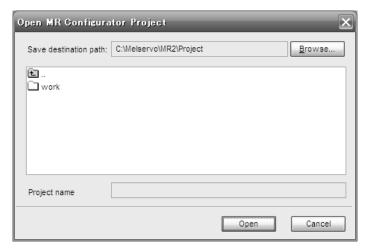
Delete the existing project for the workspace format MR Configurator2. Clicking "Delete" in the sub menu displays the following window.



(7) Open MR Configurator Project

Open an existing MR Configurator project.

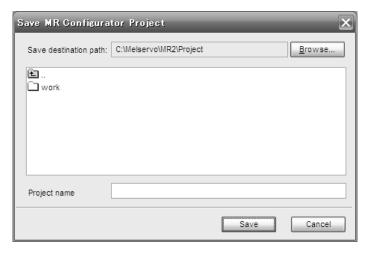
Clicking "Read Other Format" - "Open MR Configurator Project" in the sub menu displays the following window.



(8) Save MR Configurator Project

Save an existing MR Configurator project.

Clicking "Write Other Format" - "Save MR Configurator Project" in the sub menu displays the following window.



2.1.3 Servo parameters

The following gives an overview about setting servo parameters.

the servo amplifier and the controller are connected.

(1) When connecting to the servo amplifier

After creating a new project, please open the Parameter Setting screen by selecting Parameter → Parameter Setting, to display or edit parameters, or write them to the servo amplifier. For the details, please refer to the help.

- (2) When connecting to the servo amplifiers of multiple axes via Ethernet or Bus connection (via HUB) After creating a new project, please open the Parameter Setting screen by selecting Parameter → Parameter Setting, to display or edit parameters, or write them to the servo amplifiers. For the details, please refer to the help.
- (3) When operating via motion controller (MT Developer2 Version 1.100E or later) After starting MT Developer2, please open the Servo Parameter screen by selecting Servo Parameter in the project tree, to display or edit parameters, or write them to the servo amplifier. You can also write parameter values that you set offline to the controller, and they will be reflected when the servo amplifier and the controller are connected.
- (4) When operating via SSCNET III/H compatible simple motion module (GX Works2 Version 1.521T or later and GX Works3)
 After starting Simple Motion Module Setting Tool, please open the Servo Parameter screen by selecting Servo Parameter in the project tree, to display or edit parameters, or write them to the servo amplifier.
 You can also write parameter values that you set offline to the controller, and they will be reflected when
- (5) When operating from the CC-Link IE Field Configuration screen of GX Works3 via CC-Link IE Field After opening the CC-Link IE Field Configuration screen, set up servo amplifier model manufactured by Mitsubishi Electric, and then double-click the "servo amplifier" icon. *1 For the details, please refer to the help.

As parameter values that you set offline are not reflected to the servo amplifier, please write them to the servo amplifier online.

- *1 Including Setting/monitoring tools for the C Controller module/CW Configurator.
- (6) When operating from the CC-Link IE TSN Configuration screen of GX Works3 via CC-Link IE TSN After opening the CC-Link IE TSN Configuration screen, set up servo amplifier model manufactured by Mitsubishi Electric, and then double-click the "servo amplifier" icon. *1

Parameter values that you set in the CC-Link IE TSN Configuration screen are maintained as part of the module parameters of the master station.

If you write module parameters to the master station after enabling "Parameter Automatic Setting" in the CC-Link IE TSN Configuration screen, parameters maintained by the master station will be automatically set to servo parameters when the servo amplifier and the controller are connected. (Note 1, 2)

*1 Including Setting/monitoring tools for the C Controller module/CW Configurator/CC-Link IE TSN Configurator.

When operating from the Network Configuration Settings of CC-Link IE TSN Configurator, in the Network Configuration Settings screen, set up servo amplifier model manufactured by Mitsubishi Electric, and then double-click the "servo amplifier" icon in the tree.

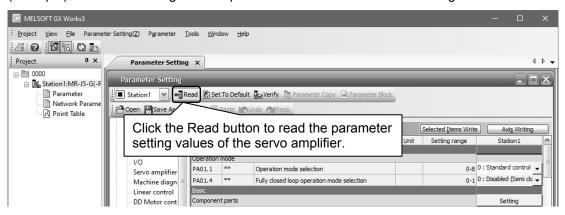
Note 1. If you want to use the parameter settings of the servo amplifier on startup, execute writing to the master station after disabling "Parameter Automatic Setting" in the configuration screen, and then connect the master station and the servo amplifier.

(Example) CC-Link IE TSN Configuration screen

CC-Link IE TSN Configuration Edit View Close with Discarding the Setting Close with Reflecting the Setting Module List Connected/Disconnected Module Detection Detailed Display CC-Link IE TSN Selection | Find Module ◆ ▶ Online Assignment Method: ssion Time (Min.): - us Communication Period Interval (Min.): 1191 年間 ☆ Motion Control RX Setting RY Setting RWr Setting RWw Setting Parameter Automatic Setting General CC-Link TE TSN Module No. Model Name STA# Station Type Points Points Points ☐ CC-Link IE TSN Module (Mitsubishi 0 Master Station 1 Remote Station Master/Local Module ■ Motion Module
 ■ GOT2000 Series DC Input Transistor Output Select this checkbox to enable "Parameter Automatic Setting". **⊞** General purpose Inverter ⊞ General-Purpose AC Servo
 ⊞ I/O Combined 幯

While the servo amplifier is connected, open the Parameter Setting screen from the CC-Link IE TSN Configuration screen and click the Read button to display or edit the parameter setting values of the servo amplifier.

(Example) Parameter Setting screen opened from the CC-Link IE TSN Configuration screen



Note 2. For iQ-R series, if you enable "Parameter Automatic Setting" of the motion module, then parameters maintained by the master station will be automatically updated when any of the parameters of the servo amplifier is changed.

(For the details, please refer to "Parameter automatic setting" in the User's Manual (Communication Function) of the servo amplifier.)

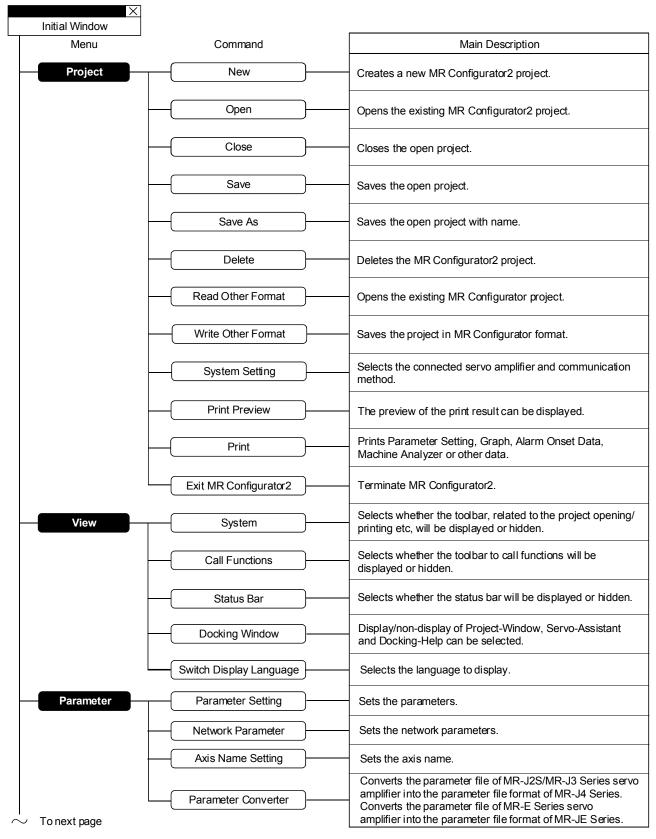
To read automatically updated parameters, execute reading by selecting [Online] \rightarrow [Read from PLC] \rightarrow [Online Data Operation] in GX Works3, double-click the "servo amplifier" icon in the CC-Link IE TSN Configuration screen to open the Parameter Setting screen, and then you can display or edit the parameters.

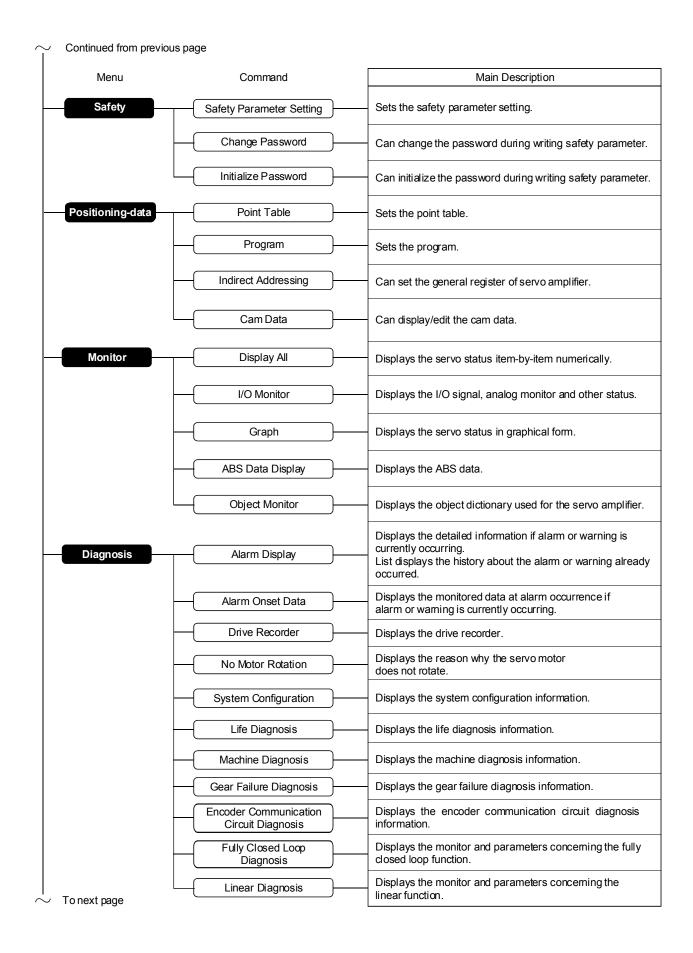
To use the parameter settings of the servo amplifier instead of automatically updated parameters, please click the Read button on the Parameter Setting screen.

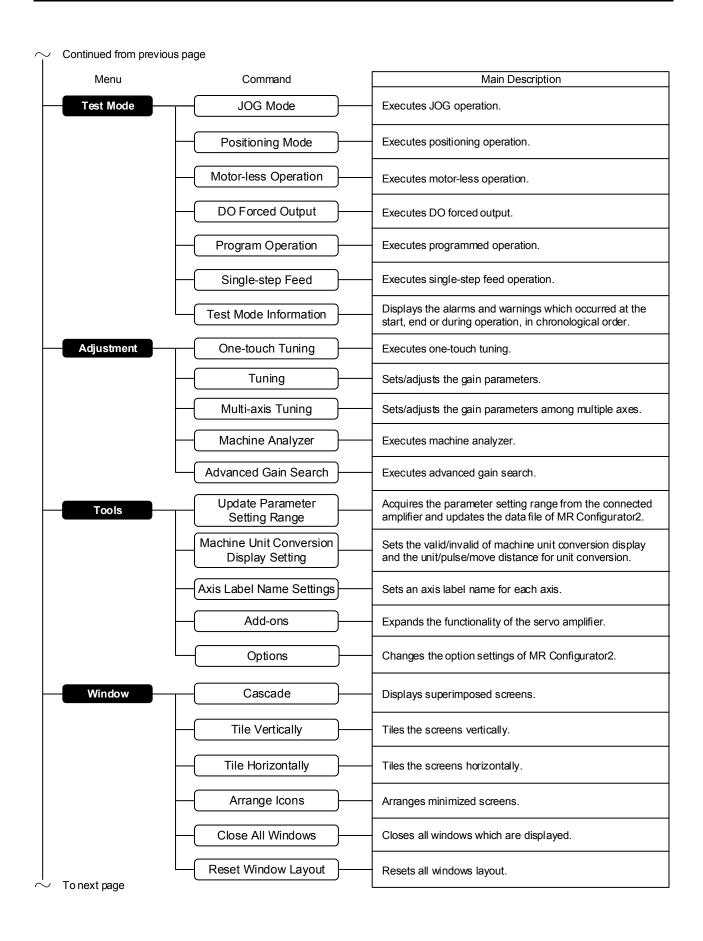
2.2 Commands and display windows

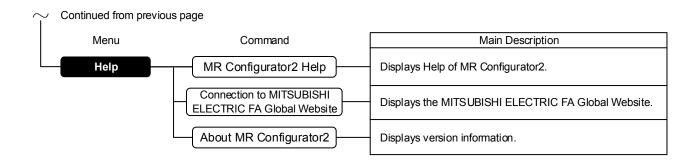
This section provides commands and their main descriptions.

For the method of using each command, the detailed explanation is provided in the help function of the servo amplifier software.









3. PRECAUTIONS

3.1 Precautions for test mode

	Always touch the switches with dry hands. You may get an electric shock if you touch them with wet hands.
⚠ WARNING	 Always operate the equipment with the front cover installed. Removing the front cover will expose the terminals and charged area having high voltages, which may lead to an electric shock.
	 Keep the front cover closed while power is on the equipment is running. Otherwise, you may get an electric shock.

Before starting operation, make sure that the parameters are set to correct values. Depending on machines, they may operate unpredictably. Take safety measures, e.g. provide covers, to prevent accidental contact of hands and parts (cables, etc.) with the servo amplifier heat sink, regenerative brake resistor, servo motor, etc. since they may be hot while power is on or for some time after power-off. Their temperatures may be high and you may get burnt or a parts may damaged.

(1) Servo on

In the JOG Mode, Positioning Mode, Program Operation, or Single-step Feed available in the Test, the servo amplifier's digital input signal Servo on (SON) is automatically switched on in the servo amplifier to start operation, independently of the ON/OFF status of Servo on (SON). Also, any external command pulse or input signal (except emergency stop) is not accepted until the test mode window is closed to terminate the command.

Servo on is automatically switched on by the following operation:

Test mode	Mouse	
JOG Mode	Click the "Forward" or "Reverse" button.	
Positioning Mode		
Program Operation	Click the "Operation Start" button.	
Single-step Feed		

(2) Stop

POINT

• To make an emergency stop, switch off the emergency stop signal of the servo amplifier or shut off the input power.

1) Perform the following operation to stop the test mode:

Test mode	Mouse
JOG Mode	When the check box for "Rotation only while the CCW or CW button is being pushed" on the JOG Mode window is not checked, click the "Stop" button. When the check box is checked, release the "Forward CCW" and "Reverse CW" buttons.
Positioning Mode	
Program Operation	Click the "Pause" button or the "Stop" button.
Single-step Feed	

3. PRECAUTIONS

- 2) The servo motor will stop if either of the following situations occurs in the test mode:
 - The communication cable is disconnected.
 - If the window is dragged or the other menu is opened, communication between the personal computer and the servo amplifier may be suspended temporarily, stopping the servo motor temporarily.
 - Forced software stop is made.

3.2 Display language switching

To switch the display language in Windows[®] 10 or later, supplemental fonts of the target language are required. Supplemental fonts can be added according to the following procedure.

Click the "Start" button on the Windows[®] Taskbar \rightarrow [Settings] \rightarrow [System] \rightarrow [Apps & features] \rightarrow [Manage optional features] \rightarrow [Add a feature]

4. TROUBLESHOOTING

(1) Communication error

If communication between the personal computer and the servo amplifier is suspended and the communication error as shown in the following window occurs, check the detail code on the error message and remove its cause.

<Possible cause> Poor connection of communication cable, system setting mistake, noise entry, hard disk fault, etc.



****001	Communication error	
****002	Communication time out arror	
80A00107	Communication time-out error	
****009	Insufficient memory error	
80010400	Station number specification error	
80010200	Communication port specification error	
80070100	Write-protected parameter	
80080200	The RD signals cannot be turn on	

(2) Time-out error occurs at return from standby mode

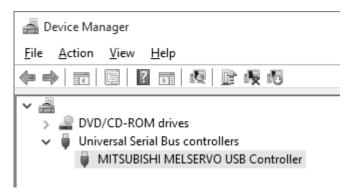
POINT

• Some personal computers cannot return to normal from a system standby. In this case, make the system standby of the personal computer invalid.

When a system standby has been set in the power option or power saving mode of a notebook PC, a timeout error will occur at a return from a system standby.

(3) Communication can never be made if USB is connected

The driver may not be set correctly. Check whether the USB driver is set correctly on the Device Manager screen and whether "MITSUBISHI MELSERVO USB Controller" is displayed under the "Universal Serial Bus controllers" folder on the Device Manager screen with the servo amplifier powered on. If "? USB Device" is displayed, delete the driver once, then power the servo amplifier off and then on, and reinstall the driver.



Set the Device Manager screen in any of the following methods.

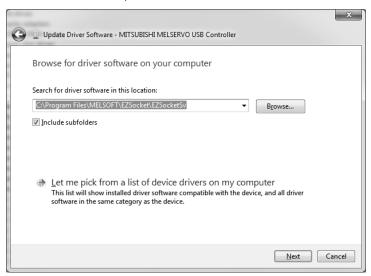
- (a) When Windows[®] 7 is used Click the "Start" button on the task bar to open the menu. Right-click "Computer" and then click "Property". Open "System properties" and then click "Device Manager".
- (b) When Windows[®] 8 or Windows[®] 8.1 is used

 Press "Windows logo key + X" to open the menu on the bottom left, and then click "Device Manager".
- (c) When Windows® 10 or later is used Right-click the "Start" button on task bar to open the menu, and then click "Device Manager".

(4) The USB driver cannot be installed

It will show the manual installation instructions of USB driver.

- 1. Connect a personal computer and a servo amplifier with a USB cable, and then turn on the servo amplifier.
- "Device driver software was not successfully installed" popup window is displayed. (It will not be displayed in Windows[®] 8 or later.) Select [Control Panel] [System and Security] [Administrative Tools] [Computer Management], and select "Update Driver Software" of [Unknown device] in the Device Manager.
- 3. The [Update Driver Software Unknown Device] dialog is displayed. Select "Don't search online". Check "Browse my computer for driver software (advanced)", and then set "EZsocket\EZSocketSv" of the folder where MR Configurator2 has been installed. If multiple MELSOFT products are installed previously, refer to their installed location. ("\Program Files\MELSOFT\EZSocket\EZSocket\EZSocketSv" or "\[Folder where this product is installed]\EZSocket\EZSocket\EZSocket\V")



- (5) Contents in the screen may not be displayed properly (for example, overlapping of icons, text overflowing from the frame of a button, etc.)
 - (a) Return the size of text and other items on the screen to 100% (96DPI, 9pt, etc.).
 - (b) When using Windows 10 (version 1703 or later) or a later OS *1, the display of MR Configurator2 can be enlarged with high DPI scaling by using an OS function. *2
 - 1) Select 'MR2.exe' *3, then select [Properties] on the right-click menu.
 - 2) Select "Override high DPI scaling behavior. Scaling performed by:" in the [Compatibility] tab, then select "System" from the pull-down list.
 - 3) Click the [OK] button.
 - *1 The Windows version can be checked by the following procedure.
 - Press [Windows] key and [R] key at the same time, or click the "Start" button on the Windows[®]
 Taskbar and select [Windows System] → [Run].
 - 2. Enter 'winver' in the "Run" screen.
 - 3. Check the version in the displayed screen.
 - *2 The display of MR Configurator2 will be blurred by enlarging.

The following lists the setting values for "Change the size of text, apps, and other items" in the OS and the recommended display resolution for each setting value.

Setting value: 100%, resolution of the display: 1024 x 768 dots or more Setting value: 125%, resolution of the display: 1900 x 1200 dots or more Setting value: 150%, resolution of the display: 1900 x 1200 dots or more Setting value: 175%, resolution of the display: 2880 x 1620 dots or more Setting value: 200%, resolution of the display: 2880 x 1620 dots or more Setting value: 225%, resolution of the display: 3840 x 2160 dots or more Setting value: 250%, resolution of the display: 3840 x 2160 dots or more

*3 'MR2.exe' is stored in the folder where MR Configurator2 has been installed.

The following is an example of a storage location.

64-bit version operating system: C:\Program Files (x86)\MELSOFT\MRC2\MR2.exe

32-bit version operating system: C:\Program Files\MELSOFT\MRC2\MR2.exe

REVISIONS

*The manual number is given on the bottom left of the back cover.

Revision Date	*Manual Number	Revision
Sep., 2010	IB(NA)0300163-A	First edition
Mar., 2012	IB(NA)0300163-B	1-1 Add MR-J4-A, MR-J4-B, MR-J3-A, and MR-J3-T in the table
		1-2 Add MR-J4-B in the table
		1-3 Add MR-J4-B in the table
		1-4 Add 64-bit OS
		1-6 Add to SSCNETIII/H communication path in the figure
		1-7 Add to SSCNETIII/H communication path in the figure
		2-2 Changes to the MR-J4-B from MR-J3-B models in the figure
		2-6 Add "Point table", "Drive Recorder" and "Machine Diagnosis"
		2-7 Add "Single-step Feed", "One-touch Tuning" and "Reset Window
		Layout"
		2-8 Add "Single-step Feed"
		2-10 Delete the description of MR-J3-B
		2-10 Add the description of MR-J4-A to column of SYNC command
		2-11 Add SYNC command in the figure
Jun., 2012	IB(NA)0300163-C	1-1 Available "Update Parameter Setting Range" of MR-J4-A
		1-1 Available "Fully Closed Loop Diagnosis" of MR-J4-B
		1-2 Available "Fully Closed Loop Diagnosis" of MR-J4-B
		1-3 Available "Fully Closed Loop Diagnosis" of MR-J4-B
		1-1 Add "Parameter Converter" in the table
		1-2 Add "Parameter Converter" in the table
		1-3 Add "Parameter Converter" in the table
		2-5 Add "Parameter Converter"
Feb., 2013	IB(NA)0300163-D	1-1 Add MR-J4-B-RJ010, MR-JN-A and MR-JE-A in the table
		1-1 Add "Program" in the table
		1-1 Available "Fully Closed Loop Diagnosis" of MR-J4-A
		1-1 Available "Linear Diagnosis" of MR-J4-A
		1-2 Add "Program" in the table
		1-3 Add MR-J4-B-RJ010 in the table
		1-3 Add "CC-Link IE Field" and "Program" in the table
		1-7 Add "MR-J4-B-RJ010" to "(4) For setting up via a simple motion"
		1-7 Describe the USB connection by SSCNET and CC-Link IE Field
		1-7 Modify the description of GX Communication setting
		2-3 Modify the description of "(5) Saving the project with name"
		2-3 Modify the description of "(6) Deleting the project"
		2-6 Add "Program" to "Positioning-data"

Revision Date	*Manual Number	Revision
May, 2013	IB(NA)0300163-E	1-4 Modify the description of "Note 3, 4, 5"
		1-4 Add the Windows [®] 8 to OS
		1-6 Modify the description of "(3) For setting up via a motion controller"
		1-7 Modify the description of "(4) For setting up via a simple motion"
		1-9 Modify the description of "1.4 Installation procedure"
		1-9 Add the description of Windows® 8
		1-11 Modify the description of "POINT"
		1-11 Add the description of Windows® 8
		1-13 Modify the description of "1.5 New hardware detection wizard"
		1-14 Add the description of Windows® 8
		3-2 Add the description of Windows® 8
Mar., 2014	IB(NA)0300163-F	1-1 Add the J3 extension function
		1-1 Add the safety menu, available "Positioning-data" of MR-J4-A
		1-2 Add the J3 extension function and safety menu
		1-3 Add the J3 extension function and safety menu
		1-4 Add the Windows [®] 8.1/delete the Windows [®] 2000 to OS
		1-9 Delete the description of Windows® 2000
		1-11 Modify the security warning screen
		1-13 Delete the description of Windows® 2000
		1-14 Delete the description of Windows® 2000
		2-1 Modify the start-up method
		2-2 Change the image
		2-6 Add the safety and indirect addressing menu
		3-1 Delete the description of Windows® 2000
		3-2 Delete the description of Windows® 2000
Jun., 2014	IB(NA)0300163-G	1-2 Add the description about MT Developer2 Version 1.100E or later
		1-3 Add the description about GX Works3
		1-6 Add the description about MT Developer2 Version 1.100E or later
		1-7 Add the description about GX Works3
		2-1 Add the description about MT Developer2 Version 1.100E or later/
		GX Works3
		2-5 Add "Switch Display Language" in View

Revision Date	*Manual Number	Revision
Oct., 2014	IB(NA)0300163-H	A-2 Delete the memo page of "Safety Instructions"
		2 Delete the memo page of "CONTENTS"
		1-2 Modify the layout
		1-3 Modify the layout
		1-4 Modify the layout
		1-7 Modify the layout
		1-8 Modify the layout
		2-6 Modify the description of "Alarm Display"
		2-7 Add "Connection to MITSUBISHI ELECTRIC FA Global Website" in Help
		2-7 Modify the description of "Update Parameter Setting Range"
		2-12 Delete the memo page of "2. HOW TO USE THE SOFTWARE"
		3-3 Delete the memo page of "3. TROUBLESHOOTING"
		Back cover Delete the three-diamond Mitsubishi mark before the company
		name
Nov., 2014	IB(NA)0300163-J	1-1 Available "Functional safety unit" of MR-J4-A/Add the description about
		MR-J4-B-RJ/Add MR-JE-B
		1-2 Add the description about MR-J4-B-RJ
		1-3 Add the description about MR-J4-B-RJ/Add MR-JE-B
Jan., 2015	IB(NA)0300163-K	1-1 Modify the description about MR-JE-A
		1-1, 1-2 Divide the description about MR-J4 series and MR-J3 series/
		MR-JN-A to 1-1 and 1-2 pages
		1-1, 1-2, 1-3, 1-4 Add "Cam data" to "Positioning-data"
		1-1, 1-3 Add MR-J4-B-LL in the table
		1-7 Modify the layout
		1-8 Modify the layout
		2-6 Add "Cam data" to "Positioning-data"
Apr., 2015	IB(NA)0300163-L	1-1 Change the model order in corresponding table
		1-12 Add the description of "POINT"
		1-13 Add the description of "POINT"
		3-3, 3-4 Add the description of "TROUBLESHOOTING"
Jul., 2015	IB(NA)0300163-M	1-1, 1-3, 1-4 Modify the model name in corresponding table
		1-5 Update the Windows® XP of the corresponding OS/Check the
		description of Note 3
		1-7, 1-8 Modify the model name
		1-13 Modify the contents
		2-9 Modify the contents in Chapter 2
Sep., 2015	IB(NA)0300163-N	1-1 Add MR-J4-GF
		1-6, 1-7, 1-8 Modify the contents
		1-13 Modify the contents

Revision Date	*Manual Number	Revision
Feb., 2016	IB(NA)0300163-P	1-1 Modify the model name in corresponding table to MR-J4-GF(-RJ)
		1-1 Available "Point Table", "Fully Closed Loop Diagnosis", "Linear Diagnosis"
		and "Single-step Feed" of MR-J4-GF(-RJ)
		1-3, 1-4 Modify the title
		1-4 Add MR-J4-GF(-RJ) in corresponding table
		1-5 Add Windows [®] 10 in corresponding OS
		1-6 Modify the notes
		1-8, 1-9 Modify the contents
		3-2 Add the description of Windows® 10
Jun., 2016	IB(NA)0300163-Q	1-3 Add MR-MT2ppp
		1-5 Add Windows [®] 10 Education in corresponding OS
		1-6 Modify the display of note 3
		1-8, 1-9 Modify the passage
		2-7 Add "Options" to "Tools"
		3-1 Add the chapter of "PRECAUTIONS"
		3-1, 3-2 Change the Precautions for test mode to chapter 3.1
		3-2 Add the chapter of "Display language switching"
		4-1, 4-2, 4-3, 4-4 Change the chapter of "TROUBLESHOOTING" to chapter 4
Oct., 2016	IB(NA)0300163-R	COVER FRONT Modify the passage
		A-1 Correct misentry
		1-1, 1-4 Available "Safety Parameter Setting", "Change Password", "Initialize
		Password" and "Cam Data" of MR-J4-GF(-RJ)
		1-3, 1-4, 1-6 Modify the notes
Dec., 2016	IB(NA)0300163-S	A-1 Modify the passage
		1-1, 1-2 Divide the description about MR-JE series from MR-J4 series/MR-JE
		series and add MR-JE-C to JE series
Mar., 2017	IB(NA)0300163-T	1-2, 1-5 Change MR-JE-B to MR-JE-B(F)
May, 2017	IB(NA)0300163-U	1-5, 2-1 Add the version of GX Works2
Aug., 2017	IB(NA)0300163-V	1-1, 1-2, 1-3 Add "Ethernet" menu
		1-1, 1-2, 1-3, 1-4, 1-5 Add "Multi-axis Tuning" menu
		1-6 Add the item "Ethernet cable"
		1-8 Add the description of Ethernet connection
		2-7 Add "Multi-axis Tuning" to "Adjustment"
Mar., 2018	IB(NA)0300163-W	A-1 Move the description of trademarks to the behind of "REVISONS"
		1-1 Available "Ethernet communication" of MR-J4-GF(-RJ)
		1-7 Delete the description of trademarks
		1-8, 1-9, 1-10 Delete the note of trademarks
		2-1 Add the description of start-up via USB, etc.
		4-5 Add the troubleshooting when contents in the screen are not displayed
		properly

Revision Date	*Manual Number	Revision
Sep., 2018	IB(NA)0300163ENG-X	1-2 Available "Point Table" of MR-JE-C
		1-6 Add Windows® 10 IoT Enterprise 2016 LTSB in corresponding OS
Apr., 2019	IB(NA)0300163ENG-Y	1-1 Add MR-J5 series
		1-7 Add MR-J5 series to "When via GX Works3"
		1-8 Modify the notes of components
		1-12 Add the description of HUB connection to "(5) For setting up via
		GX Works2/GX Works3"
		2-3 Add the new project screen of multi-axis project
		2-6 Add "Network Parameter" to "Parameter"
		2-7 Add "Gear Failure Diagnosis" and "Encoder Communication Circuit
		Diagnosis" to "Diagnosis"
Oct., 2019	IB(NA)0300163ENG-Z	1-1 Available "Network Parameter" and "Fully Closed Loop Diagnosis" of
		MR-J5-A
		1-1 Available "Fully Closed Loop Diagnosis" of MR-J5-G, modify the
		notes
		1-1 Add MR-J5-G-N1, MR-JET-G and MR-JET-G-N1
		1-7 Available "Network Parameter" and "CC-Link IE TSN" of MR-J5-G
		when via GX Works3, modify the notes
		1-7 Add MR-JET-G
Jul., 2020	IB(NA)0300163ENG-AA	1-1 Available "Safety Parameter", "Change Password", and "Initialize
		Password" of MR-J5-G and MR-J5-G-N1
		1-1 Available "Linear Diagnosis" of MR-JET-G and MR-JET-G-N1
		1-8 Delete Windows [®] XP/Windows Vista [®] from OS
		1-9, 1-16, 1-18, 1-19, 4-1, 4-2, 4-3, 4-4 Delete the description of Windows® XP/Windows Vista®
Oct., 2020	IB(NA)0300163ENG-AB	1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7 Add "Object Monitor" menu
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2-7 Add "Object Monitor" to "Monitor"
Jan., 2021	IB(NA)0300163ENG-AC	1-1 Available "Point Table" and "Single-step Feed" of MR-J5-G,
,		MR-J5-G-N1, MR-JET-G, and MR-JET-G-N1
		1-2 Available "Parameter Converter" of MR-J4-GF
		1-12 Add Motion Module (CC-Link IE TSN) to the explanation and
		figures of (5)
		2-1, 2-2 Modify the contents
		2-6, 2-7 Add chapter 2.1.3 Servo parameters

Revision Date	*Manual Number	Revision
Jun., 2021	IB(NA)0300163ENG-AD	 1-1 Modify MR-J5-G(-RJ) to MR-J5G(-RJ) 1-1 Modify MR-J5-G-N1 to MR-J5G-N1 1-7 Add connection via CW Configurator/CC-Link IE TSN Configurator 1-7 Modify MR-J5-G(-RJ) to MR-J5G(-RJ) 1-1, 1-7 Add notes 1-9 Add the description that surrogate pair characters are not available 1-12 Modify the explanation and figures of (5) 1-13 Add the explanation and figures of (6) 2-1 Add notes, modify the explanations of (7) and (8), and add (9) 2-3, 2-4 Modify the images of New Project screen (Single axis and multi-axis)
Apr., 2022	IB(NA)0300163ENG-AE	 2-7 Add notes and modify the explanations of (5) and (6) 1-1 Add MR-J5(W)-B(-RJ) 1-1 Add "Add-ons" to "Tools" 1-1 Add notes 1-1 Add "*5" to MR-J5-G-N1, MR-JET-G, and MR-JET-G-N1 1-1 Available "Fully Closed Loop Diagnosis" for MR-JET-G and MR-JET-G-N1 1-5 Change the title of the table to "When via MT Developer2 (Except MR-J5 series)" 1-5 Change "Machine Unit Conversion Display Setting" to unavailable 1-6 Add "When via MT Developer2 (MR-J5 series)" 1-8 Change the title of the table to "When via GX Works2/GX Works3 (MR-J5 series/MR-JET series)" 1-8 Add MR-J5(W)-B(-RJ) and notes 1-5, 1-6 Change the page order 1-7, 1-8 Change the page order 1-9 Update the supported browser versions 1-9 Add Windows® 11 to OS 2-11 Add "Add-ons" to "Tools" 3-2 Add the description of Windows® 11 4-2, 4-4 Change the OS descriptions
Oct., 2022	IB(NA)0300163ENG-AF	 1-1, 1-2, 1-3 Add "Axis Label Name Settings" to "Tools" 1-1, 1-2, 1-3 Add notes 2-4 Add a procedure to configure a multi-axis project using automatic detection 2-12 Add "Axis Label Name Settings" to "Tools"

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MODEL CODE	

MITSUBISHI ELECTRIC CORPORATION

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