

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.

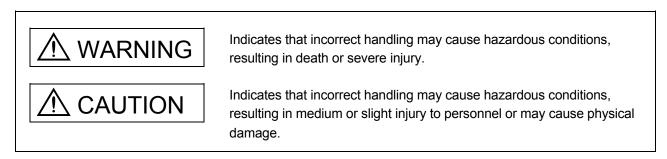


Safety Instructions

(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".



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

 \searrow : 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.

CAUTION 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.

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 Method	RS-422 (RS-232C)						/
Method	Ethernet		0	0		0	0
Parameter	Parameter Setting	0	0	0	0	0	0
	Network Parameter	0	0	0		0	0
Farameter	Axis Name Setting	0					/
	Parameter Converter						
	Safety Parameter Setting		*70	*7 0			
Safety	Change Password		*70	*7 0			
	Initialize Password		*70	*7 0			
	Point Table		0	0		0	0
Positioning-	Program						
data	Indirect Addressing						\sim
Γ	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	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
	Machine Diagnosis	0	0	0	0	0	0
-	Gear Failure Diagnosis	0	0	0	0		
-	Encoder Communication Circuit Diagnosis	0	0	0	0	0	• •
-	Fully Closed Loop Diagnosis	*10	*10	*10	*10	*10	*10
-	Linear Diagnosis	* 2 °	*20	*20	*20	*20	*20
	JOG Mode	∘ *3∘	∘ *3∘	*30	*3°	*3°	*3°
-	Positioning Mode	0	0	0	0	0	0
-	Motor-less Operation	*40	* 4 0	*40	* 4 0	*40	*40
Test Mode	DO Forced Output	0	0	0	0	0	0
restinede	Program Operation	0	0	0	0	0	0
ŀ	Single-step Feed	\sim	0	0		0	0
ŀ	Test Mode Information	o	0	0	• •	0	0
	One-touch Tuning	0	0	0	0	0	0
ŀ	Tuning	0	0	0	0	0	0
Adjustment	Multi-axis Tuning			\sim	, , , , , , , , , , , , , , , , , , ,		<u> </u>
	Machine Analyzer	•	0	o	• •	• •	• •
F	Advanced Gain Search						~
	Update Parameter Setting Range						
F	Machine Unit Conversion Display Setting	°	°	°	0	°	°
Tools	Machine Unit CUnversion Display Setting				0		
Tools	Axis Label Name Settings	/	*10○	*10○	/	*10○	* 10 ○

When connecting to the serve amplifier (MR-15 series/MR-1ET series) *6

*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-J5D1-G, MR-J5-G-N1, MR-JET-G, or MR-JET-G-N1.
*10 Only available for multi-axis projects.

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)						
wethod	Ethernet	/					0
	Parameter Setting	0	0	0	0	0	0
Deverseter	Network Parameter						
Parameter	Axis Name Setting	0					
	Parameter Converter	*40					*40
	Safety Parameter Setting	* 7*8 0	* 8*9 0			* 8 0	* 8*12 0
Safety	Change Password	* 7*8 0	* 8*9 0			* 8 0	* 8*12 ○
	Initialize Password	* 7*8 0	* 8*9 ○			* 8 0	* 8*12 ○
	Point Table	*70					*11੦
Desitioning data	Program	*70					/
Positioning-data	Indirect Addressing	*70					
	Cam Data	*70		\sim			*11੦
	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
Diagriosis	Machine Diagnosis	0	0	0	0	0	0
	Gear Failure Diagnosis			/			
	Encoder Communication Circuit Diagnosis						
	Fully Closed Loop Diagnosis	*1੦	*1੦			*1੦	*1 0
	Linear Diagnosis	*2 0	*20			*2 °	*2 0
	JOG Mode	*3੦	*3੦	0	0	*3੦	*3੦
	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		/			*11੦
	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				<u> </u>		
	Update Parameter Setting Range	0	0	0	0	0	0
Tools	Machine Unit Conversion Display Setting		0	0	0		
	Axis Label Name Settings						*14○
	Add-ons						

When connecting to the servo a	amplifier (MR-J4 series)
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*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 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
DD Motor control mode: MR-J3-B-RJ080W

Linear servo motor control mode: MR-J3-B-RJ004 *6 The same as MR-J4-B (-RJ) in MR-J3-B extension function (Several restrictions).

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

*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.

Item	Servo amplifier	MR-JE-A	MR-JE-B(F)	MR-JE-C*1
	USB	0	0	0
Communication	RS-422 (RS-232C)			
Method	Ethernet			0
	Parameter Setting	0	0	0
	Network Parameter			
Parameter	Axis Name Setting	•	\sim	
	Parameter Converter	0		
	Safety Parameter Setting			
Safety	Change Password			
Galety	Initialize Password			/
	Point Table	0		•
Positioning-data	Program	0		
J	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 Machine Diagnosis	0	0	0
	Gear Failure Diagnosis	0	0	°
	-			
	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	0
	Single-step Feed	0		
	Test Mode Information	0	0	0
	One-touch Tuning	0	0	0
A discont of	Tuning Multi avia Tuning	0	0	0
Adjustment	Multi-axis Tuning			
	Machine Analyzer	• 	0	0
	Advanced Gain Search			
	Update Parameter Setting Range	°	0	0
Tools	Machine Unit Conversion Display Setting		0	
	Axis Label Name Settings			*20
	Add-ons			

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

*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)	
	ampinior		

Item	Onnecting to the ser	MR-J3-A	MR-J3-B	MR-J3-B -RJ006	/ MR-J3-В -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		\sim	\sim		\backslash		
	Parameter Setting	0	0	0	• •	• •	0	• •
Parameter	Network Parameter	\sim	\sim	\sim			\sim	
	Axis Name Setting	0					0	
	Parameter Converter	\sim	\sim	\sim				
0.64	Safety Parameter Setting	\sim						
Safety	Change Password							
	Initialize Password							
	Point Table						0	0
D	Program	\sim		\sim	/	/		0
Positioning-data	Indirect Addressing	\sim	\sim	\sim			\sim	/
	Cam Data				\sim	\sim		\sim
	Display All	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	$\overline{}$
	Object Monitor				<u> </u>	<u> </u>		
	Alarm Display	• •	• •	• •	o	o	•	o
	Alarm Onset Data		0		0		0	
		°	~ °	°		°		0
	Drive Recorder							0
	No Motor Rotation	0	0	0	0	0	0	0
	System Configuration	0	0	0	0	0	0	0
	Life Diagnosis	0	0	°	°	°	0	°
Diagnosis	Machine Diagnosis							
	Gear Failure Diagnosis Encoder					\square		
	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						0	0
	Test Mode Information	0	0	0	0	0	0	0
	One-touch Tuning							
	Tuning	0	0	0	0	0	0	0
Adjustment	Multi-axis Tuning							
.,	Machine Analyzer	0	0	0	0	0	0	
	Advanced Gain Search	0	0	0	0		0	
	Update Parameter Setting Range	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							

When via 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						
	Initialize Password						
	Point Table						
	Program						
Positioning-data	Indirect Addressing						
	Cam Data						
	Display All	0					
	I/O Monitor	0					
Monitor	Graph	0					
Wiermei	ABS Data Display	0					
	Object Monitor	~					
	Alarm Display	•					
	Alarm Onset Data	0					
	Drive Recorder	0					
	No Motor Rotation	0					
	System Configuration	0					
Diagnosis	Life Diagnosis	0					
Diagnosis	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	5 0					
	Motor-less Operation	*40					
Test Mode	DO Forced Output	•					
Test Mode	Program Operation	0					
	Single-step Feed						
	Test Mode Information	0					
	One-touch Tuning	0					
	Tuning	0					
Adjustment	Multi-axis Tuning	0					
Aujustinent	Machine Analyzer	0					
	Advanced Gain Search						
	Update Parameter Setting Range	0					
	Machine Unit Conversion Display Setting						
Tools	, , , , ,						
	Axis Label Name Settings						
	Add-ons						

When via MT Developer2 (MR-J5 series)

*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.

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					/	· /
	Parameter Setting	0	0	•	· · ·	· · ·	•	· · ·	0
	Network Parameter						\sim	/	
Parameter	Axis Name Setting			\sim	\sim	\sim		\sim	/
	Parameter Converter			\sim	\sim			\sim	\backslash
	Safety Parameter Setting	*8*10o							
Safety	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		\backslash
Monitor	Graph	0	0	0	0	0	0		
	ABS Data Display	0	0	0	0	0	0	\sim	\backslash
	Object Monitor								
	Alarm Display	0	0	0	0	0	0	0	0
	Alarm Onset Data	0	0	0	0	0	0		
	Drive Recorder	0	0						
	No Motor Rotation	0	*11○	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	*1 0			0				
	Linear Diagnosis	*20				0			
	JOG Mode	*3੦	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	*50	*50	*50		
	Single-step Feed								
	Test Mode Information	0	0	*50	*50	*50	*50		
	One-touch Tuning	0	* 11 ○						
	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	0	0		
Tools	Machine Unit Conversion Display Setting								
	Axis Label Name Settings								
	Add-ons								

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

*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.

Standard control mode: MR-J3-B

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

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.

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 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.

1 - 6

VVIIEII	via GX Works2/GX Works3 (MR-J5 s		series) z 3		
Item	Servo amplifier	MR-J5G (-RJ)*1 *4	MR-J5(W)-B (-RJ)*5	MR-JET-G*1	
	SSCNET III				
Communication	SSCNET III/H		· ·		
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				
culoty	Initialize Password				
	Point Table				
	Program				
Positioning-data	Indirect Addressing				
	Cam Data				
	Display All		0		
	I/O Monitor		0		
Monitor	Graph		0		
Worldon	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		
Diagnoolo	Machine Diagnosis		0		
	Gear Failure Diagnosis		0		
	Encoder Communication Circuit Diagnosis		0		
	Fully Closed Loop Diagnosis		*6°		
	Linear Diagnosis		*7°		
	JOG Mode		*80		
	Positioning Mode		0		
	Motor-less Operation		*90		
Test Mode	DO Forced Output		0		
1001 mode	Program Operation		0		
	Single-step Feed				
	Test Mode Information		•		
	One-touch Tuning		0		
	Tuning		0		
Adjustment	Multi-axis Tuning		0		
, agaotinoni	Machine Analyzer		0		
	Advanced Gain Search				
	Update Parameter Setting Range		0		
	Machine Unit Conversion Display Setting				
Tools	Axis Label Name Settings				
	Add-ons				
	Add-ons				

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

*1 Add-ons
*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	(Excent MR-15 series) *9 *13
	(Except MR-JS Series) 9 13

V V I I	ien via GX Works2/GX	1101100			100/ 0					
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					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	*50	*5੦	*50	*50
Parameter	Network Parameter									
Falametei	Axis Name Setting									
	Parameter Converter	/	/		/		/	/		/
	Safety Parameter Setting	*8*10o		*8*14 *15○						
Safety	Change Password	* 8*10 ○		*8*14 *15○						
	Initialize Password	*8*10o		*8*14 *15○						
	Point Table			*12○						
Positioning-data	Program									
- Jonioning-uata	Indirect Addressing									
	Cam Data			*12*15○						
	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	0	0	0
	Alarm Onset Data	0	0	0	0	0	0	0	0	
	Drive Recorder	0	0	0	0			/	/	\backslash
	No Motor Rotation	0	0	0	0	· · ·	0	0	0	
	System Configuration	0	0	0	0	0	0	0	0	0
	Life Diagnosis	0	0	0	0	0	0	0	0	\sim
Diagnosis	Machine Diagnosis	0	0	0	0	\sim	\sim	$\overline{}$	~	\sim
Diagnooid	Gear Failure Diagnosis		~		~					
	Encoder Communication					\sim				
	Circuit Diagnosis Fully Closed Loop							\square		
	Diagnosis Linear Diagnosis	*1੦ *2੦		*1੦ *2੦			°			
	JOG Mode	 *3○		<u>∠</u> ₀ *3∘				°		
		-	0	-	0					
	Positioning Mode Motor-less Operation	 *4○	0	 *4○	0					
TestMede			0		0	0	0			
Test Mode	DO Forced Output	0	0	0	0	°	°	°	0	
	Program Operation	0	°	0	0					
	Single-step Feed			*12੦						
	Test Mode Information	0	0	0	0	0	0	0	0	
	One-touch Tuning	0	0	0	0					
	Tuning	0	°	0	0					
Adjustment	Multi-axis Tuning	0					$ \ge$	$ \ge$		
	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									

*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

Linear servo motor control mode: MR-J3-B-RJ004

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

Fully closed control mode: MR-J3-B-RJ006

*7 Can not be used as MR-J3-B extension function.

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.

Equipmer	nt	Description				
	OS	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 Enterprise Operating System Microsoft® Windows® 10 Pro Operating System Microsoft® Windows® 10 Home Operating System				
(Note 1, 2, 3, 4, 5) Personal computer	CPU	Microsoft [®] Windows [®] 10 IoT Enterprise 2016 LTSB Operating System *1 Windows 11 2 or more cores on a compatible 64-bit processor or System on a Chip (SoC) 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				
	Memory	Windows 11 4 GB or more recommended (For 64-bit edition) 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				
Display		One whose resolution is 1024×768 or more and that can provide a high color (16 bit) display. Connectable with the above personal computer.				
Keyboard		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				
Ethernet ca	able	Cable type: Category 5e or higher, (STP) straight cable Standard : IEEE802.3 1000BASE-T or ANSI/TIA/EIA-568-B (Higher than Category 5e) Connector: RJ-45 connector with shield				

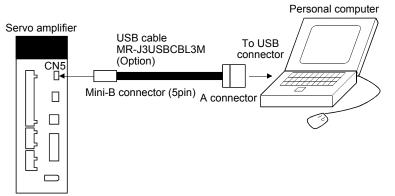
*1: Only the 64-bit edition is supported.

- 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
 - Text cursor indicator
 - 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

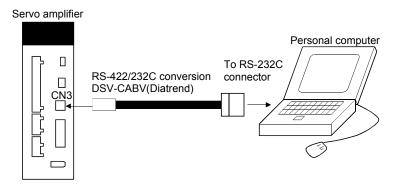
(1) For use of USB

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



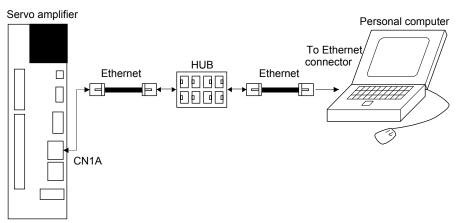
(2) For use of RS-422

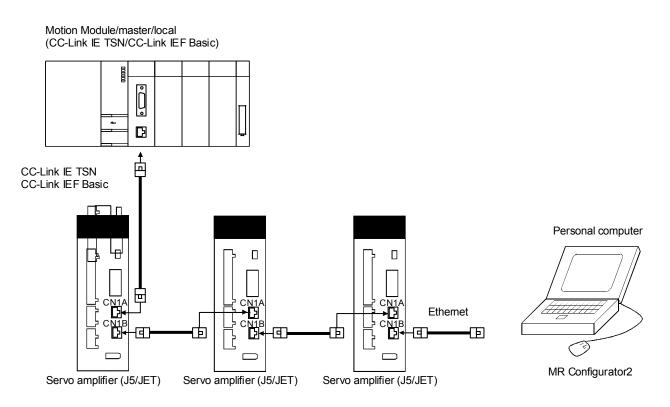
Run/operate the servo amplifier of axis 1. It is recommended to use the following cable.



(3) For use of Ethernet

Run/operate the servo amplifiers of multiple axes.



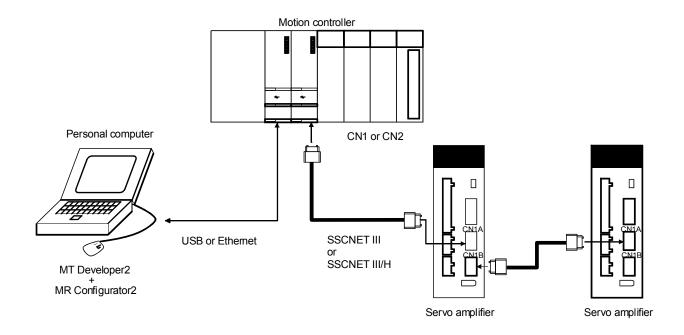


(4) For setting up via MT Developer2

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.

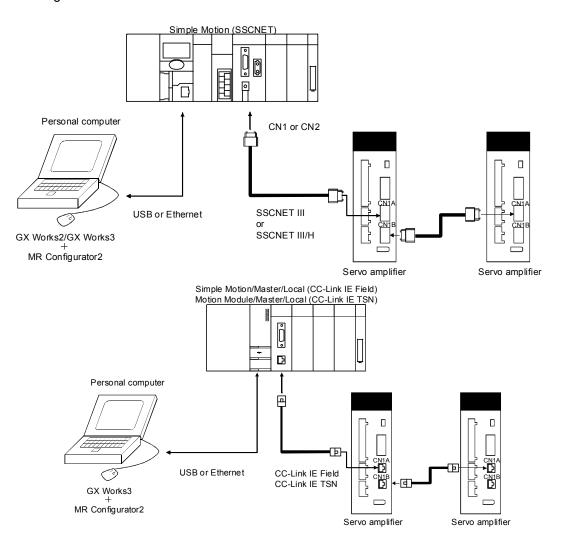
MR Configurator2 cannot be started in the MT Developer2 before Version 1.100E.



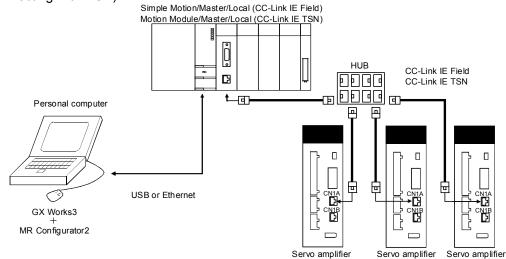
(5) For setting up via GX Works2/GX Works3 *2

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.



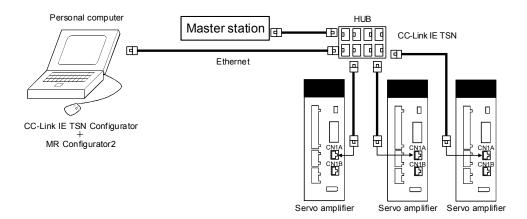
(When connecting with HUB)



(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

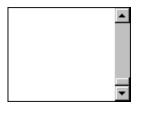
Highlights characters, button or the like when the menu or button is ready to accept an input from the keyboard.

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

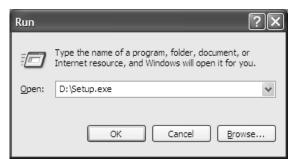
Box used to select one or more of several items. When a choice is made a mark appears in the box.

11) Option button

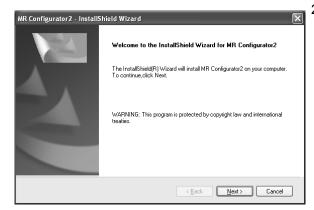
Button used to select only one of several items. When a choice is changed ^(C) moves to a new choice.

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.

IR Configurator2 - InstallShield User Information	l Wizard		×
Please enter information.			Contraction of the second
<u>U</u> ser Name:			
Company Name:			
Product ID: Please input in single-byte alphanum	eric characters.		
· .			
stallShield			
	< Back	Next>	Cancel

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.

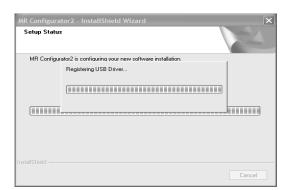
MR Configurator2 - InstallShield Wizar Choose Destination Location Select folder where setup will install files.	
Install MR Configurator2 to: C:\Program Files\MELSOFT	hange
InstallShield	(<u>₿</u> ack <u>N</u> ext> Cancel
MR Configurator2 - InstallShield Wiza	rd 🛛
Start Copying Files Review settings before copying files.	and the second
Setup has enough information to start copyin change any settings, click Back. If you are s copying files.	
Current Settings: User Information: User Name:***** Company Name:***** Product ID:***-******* Installation folder:C:\Program Files\MELSOF	T
InstallShield	

 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.

MR Configurator2 - InstallShield Wizard	X
Setup Status	XX
MR Configurator2 is configuring your new software installation.	
Installing	
C:\Program Files\MELSOFT\MRC2\MFC71CHS.DLL	
InstallShield	
	Cancel

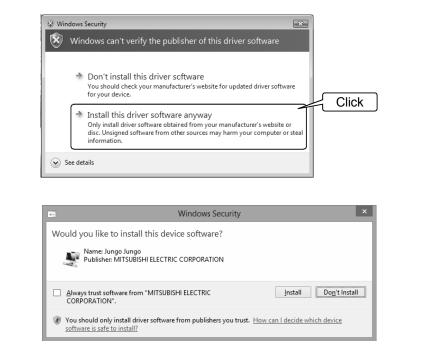
6) The Setup status screen appears.



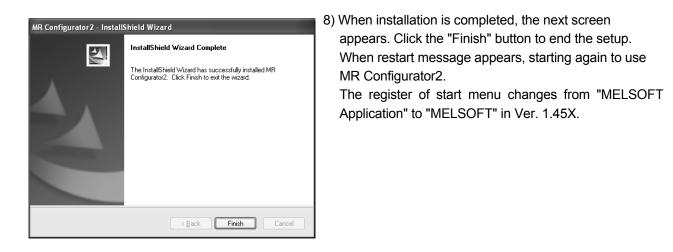
7) The driver installation window appears.

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.



POINT	
 In the correspo 	nding window, to stop installation, click the "Cancel" button.
	install has been done to upgrade the version of MR Configurator2, essage may be displayed. In this case, select "This program atly".
l í	Program Compatibility Assistant
	This program might not have installed correctly
	If this program didn't install correctly, try reinstalling using settings that are compatible with this version of Windows.
	Program: Setup.exe Publisher: Macrovision Corporation Location: C:\Setup\RedistributableInstaller\setup.exe
	Reinstall using recommended settings
	This program installed correctly
	Cancel
	What settings are applied?

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.

MEMO

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.

2. HOW TO USE THE SOFTWARE

(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.

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

(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.

2.1.2 Project

(1) New

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

4	т м	elso		es MR Conf					
:	Proj	ject	<u>V</u> iew	P <u>a</u> rameter	Positio	ning-data	Monitor		
	Ľ	<u>N</u> ev	v		Ctrl+N	18 28	en £ã ∎		
		Ope	en		Ctrl+O				
ľ		<u>C</u> los	se						
	Р	<u>S</u> av	e		Ctrl+S				
		Sav	e <u>A</u> s						
		<u>D</u> ele	ete						
		<u>R</u> ea	d Other	Format		•			
		<u>W</u> ri	te Other	Format		•			
		S <u>y</u> s	tem Set	ting					
		Prin	it Pre <u>v</u> ie	W					
	B	<u>P</u> rin	ıt		Ctrl+P				
		E <u>x</u> it	MR Cor	nfigurator2	Alt+F4				
	No project has been selected								

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

(a) When a single axis project is used

New Project (Single	Axis)	×				
Model	MR-J5-G(-RJ)	~				
Operation mode		Y				
Multi-ax. unification		V				
Station	00	V				
Option unit	No Connection	~				
Connection setting Servo amplifier Servo amplifier Com, speed	connection USB connection RS-422 (RS-232C)					
Com, speed						
Port No. AUTO						
O Network/contro	oller					
The last-used proje the application is re	ct will be opened whenever started					
<u></u> KCancel						
Switch to Multi-axis	Project					
Switch the window by di to create multi-axis conf	cking this button when you wa iguration.	ant				

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

(b) When a multi-axis project is used

New Pre	oject (Multi-a	xis)	_	_	X		
Conne	ection Network:	CC-Link	IE TSN	•			
Va:	PC side I/F	None	V	·			
	Connection I	/F ③Eth	ernet				
	Protocol	UDP	~	Time-out	1 💌 s (1-15)		
↓				Retry	1 💌 times (0-3)		
L	Servo Amplifier	Configuration —			Automatic Detection		
	Axis	Model	IP address				
	1	MRJ5-G(-R.J)	192. 168. 3. 1	1			
	2_ <u></u> 2	MR-J5-G(-RJ)	192.168.3.2	2			
	*		~]-				
	* The copied/pasted/deleted cata includes nct only the model of the servo amplifier but also the set data (servo parameter, etc.).						
	Image: Master Maste	ed project will be op	pened wheneve	r the applica	tion is restarted.		
Communication Test QK Cancel							
Switch	to Single Axis Pro	oject (Servo Amplifi	er Direct Conne	ction)			
I Fo Ex	r Multi-axis Projec ecute reading fro	ct, the setting value m servo amplifier o	e (like paramete n each correspo	r) of servo a onding screen	mplifier is not read. 1.		

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".

Servo Amplifiers Automatic Detection						
Automatically detects servo amplifiers connected to the network.						
Detection settings						
The detection time can be reduced by setting the range of the 4th octets in the IP address settings to the optimal values that include the IP addresses of the servo amplifiers. If you increase the time-out value and number of retries settings, it may take time for the detection to complete. Check the help for details.						
IP address settings						
192 . 168 . 3 . 1 to Time-out 1 🖈 s (1-10)						
192 . 168 . 3 . 254 Retry 0 🐑 times (0-2)						
Detect Now						
Detection results						
and select the models you want to reflect to the project.						
Model name IP address						
MR-J5-G(-RJ) 192, 168.3.1						
MR-J5W2-G 192.168.3.2						
Select All Cancel All OK Cancel						

- 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.

Save As Projec	t				-	-	-	-	? ×
Savejn:	🗎 My Document	s			~	← 🖻	1 🗗	:::: · ·	
My Recent Documents Desktop My Documents My Computer	🗃 My Music								
My Network	File weeken						~		C aug
Places	File <u>n</u> ame: Save as <u>typ</u> e:	MB2 Pro	ject Files(*	°mrc21					<u>S</u> ave Cancel
			100111000						
	Title:								
Save as a Workspace Format Project Switch the window by clicking this button when you want to use workspace format project.									

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.

Delete Project	_	_	×
Save destination path:			
C: Welservo WR2 Project \			Browse
Workspace/Project list:			
Workspace			
work			
Workspace name:	work		
Project name:			
Title:			
			Delete Cancel

(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.

Open MR Configurator Project 🛛 🗙					
Save destination path: C:\Melserve	o\MR2\Project	<u>B</u> rowse			
₪ C work					
Project name	Open				

(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.

Save MR Configurator Project 🛛 🗙					
Save destination path:	C:\Melservo\MR2\Project	Browse			
🛍 🗋 work					
Project name					
	Save	Cancel			

2.1.3 Servo parameters

The following gives an overview about setting servo parameters.

(1) When connecting to the servo amplifier

After creating a new project, please open the Parameter Setting screen by selecting Parameter \rightarrow 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 the servo amplifier and the controller are connected.

(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

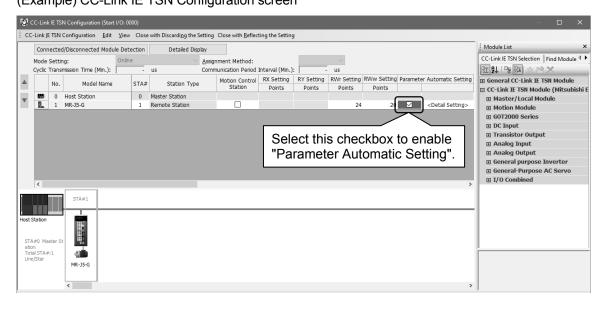
Parameter values that you set in the CC-Link IE TSN Configuration screen are maintained as part of the module parameters of the master station.

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



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

MELSOFT GX Works3									
i Project View File Parame	ter Setting(<u>Z</u>) P <u>a</u> rameter <u>T</u> i	ools <u>W</u> ind	dow <u>H</u> elp						
Project 4 ×	Parameter Setting	×						٥	1 🕨 🛨
Click the Read button to read the parameter setting Click the Read button to read the parameter setting setting values of the servo amplifier.) Axi Stat	S Writing		
		Operation PA01.1		Operation mode selection) : Standard		
	- Machine diagn 🗏	PA01.4	** F	Fully closed loop operation mode selection		0-1) : Disabled	(Semi clc	-
	Linear control Basic DD Motor cont Component parts						Set	ting	

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.

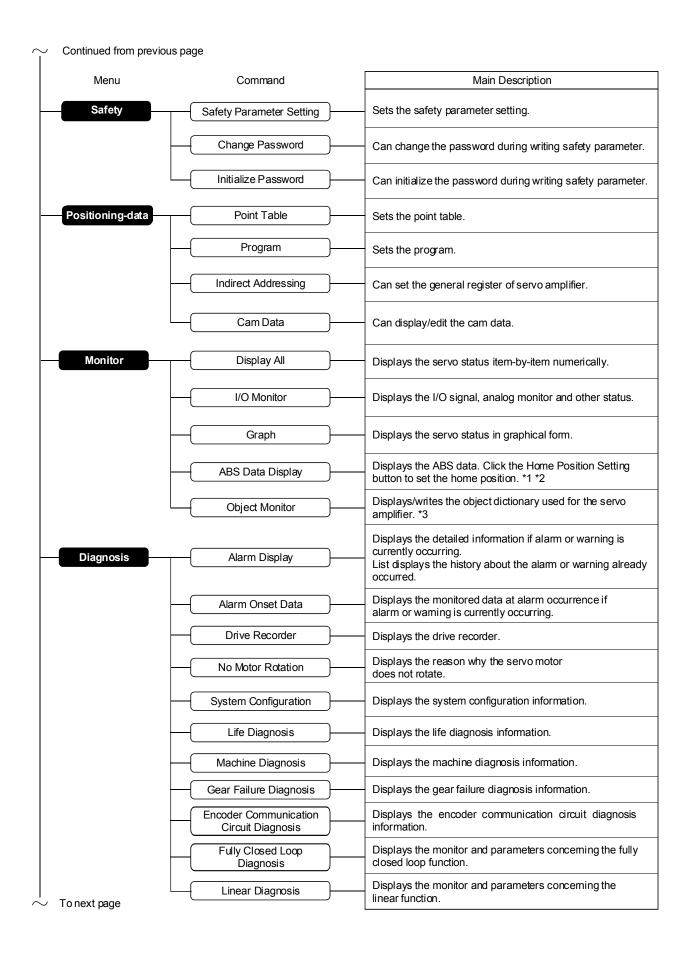
To use the parameter settings of the servo amplifier instead of automatically updated parameters, please click the Read button on the Parameter Setting screen.

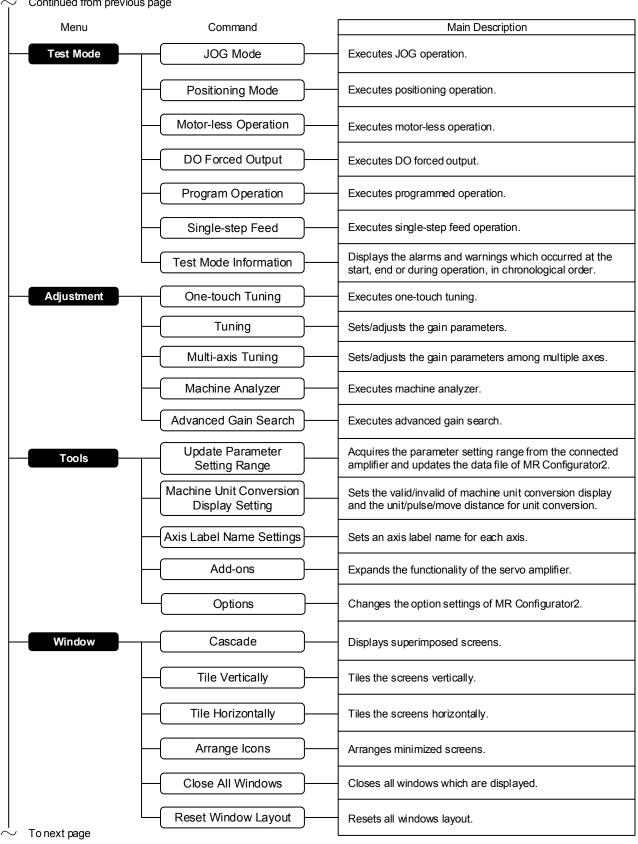
2.2 Commands and display windows

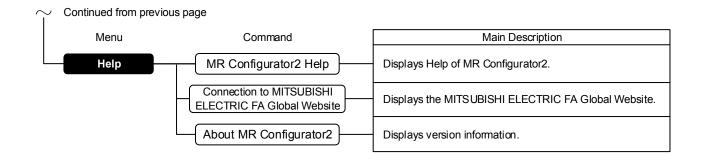
This section provides commands and their main descriptions.

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

X Initial Window		
Menu	Command	Main Description
Project	New	Creates a new MR Configurator2 project.
-	Open	Opens the existing MR Configurator2 project.
-	Close	Closes the open project.
-	Save	Saves the open project.
-	Save As	Saves the open project with name.
-	Delete	Deletes the MR Configurator2 project.
-	Read Other Format	Opens the existing MR Configurator project.
-	Write Other Format	Saves the project in MR Configurator format.
-	System Setting	Selects the connected servo amplifier and communication method.
-	Print Preview	The preview of the print result can be displayed.
-	Print Print	Prints Parameter Setting, Graph, Alarm Onset Data, Machine Analyzer or other data.
	Exit MR Configurator2	Terminate MR Configurator2.
View	System	Selects whether the toolbar, related to the project opening/ printing etc, will be displayed or hidden.
	Call Functions	Selects whether the toolbar to call functions will be displayed or hidden.
-	Status Bar	Selects whether the status bar will be displayed or hidden.
-	Docking Window	Display/non-display of Project-Window, Servo-Assistant and Docking-Help can be selected.
L	Switch Display Language	Selects the language to display.
Parameter	Parameter Setting	Sets the parameters.
+	Network Parameter	Sets the network parameters.
	Axis Name Setting	Sets the axis name.
\sim To next page	Parameter Converter	Converts the parameter file of MR-J2S/MR-J3 Series servo amplifier into the parameter file format of MR-J4 Series. Converts the parameter file of MR-E Series servo amplifier into the parameter file format of MR-JE Series.







*1 The Home Position Setting button cannot be used when:

- The servo amplifier is not MR-J5-A, MR-J4-A, or MR-JE-C.
- The control mode is not position control mode.
- The absolute position detection system is disabled (incremental system).
- The servo amplifier is in test mode; one-touch tuning (Amplifier command method) or machine analyzer is being executed.
- The backlash is being estimated for the servo amplifier (MR-J5-A only).
- *2 The way the home position is set cannot be selected. By clicking the Home Position Setting button, the data set type homing method is used.
- *3 There are restrictions on writing objects through the object monitor, which are:
 - Multiple axes or multiple objects cannot be written at once.
 - Objects assigned to the PDO mapping cannot be written.
 - Without a controller connected, even if you write control command objects, the motor will not operate.
 - Without a controller connected, even if you change PDO mapping objects, when you connect a controller next time, they will be overwritten by the objects assigned to the controller's PDO mapping.
 - Because the communication between MR Configurator2 and servo amplifiers is irregular, fast object writing is not available.

3. PRECAUTIONS

3.1 Precautions for test mode

⚠ WARNING	 Always touch the switches with dry hands. You may get an electric shock if you touch them with wet hands. 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.
▲ CAUTION	 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 si 	gnal 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	

- 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, 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]

(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.

MELSOF	T Series MR Configurator 2 🛛 🗙
	An error occurred while accessing the amplifier. Detailed code (80040002)
	OK

*****001	Communication error	
*****002	Communication time out error	
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

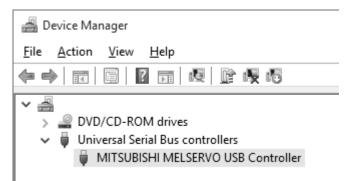
POINT

 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.



Right-click the "Start" button on the taskbar to open the menu, and then click "Device Manager" to configure the settings.

(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.

 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\EZSocketSv" or "\[Folder where this product is installed]\EZSocket\EZSocketSv")

G	Update Driver Software - MITSUBISHI MELSERVO USB Controller	x
	Browse for driver software on your computer	
	Search for driver software in this location:	
	C:\Program Files\MELSOFT\EZSocket\EZSocketSv	
	✓ Include subfolders	
	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	
	Next Car	ncel

- (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

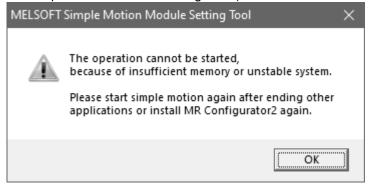
- (6) An error occurs when opening MR Configurator2 via another MELSOFT product The following errors may occur when MR Configurator2 is opened from another MELSOFT product.
 - (a) For MT Developer2 (Version 1.182Q as an example)

MELSOFT MT Developer2		
Â	The memory is insufficient or because the system is unstable, MT Developer2 cannot be started. Please start MT Developer2 again after ending other applications or install MR Configurator2 again.	
	ОК]

(b) For GX Works3 (Version 1.090U as an example)

MELSOFT	GX Works3	\times
0	The process was canceled because an error occurred. The following reasons may be responsible. - A general extension module is installed in the target slave station. - The contents of definition for the profile are incorrect. - A problem occurred in the environment where the application is executed. - A problem other than the above occurred during processing.	
	- Module with an error Manufacturer Name: MITSUBISHI ELECTRIC Target Module: MR-J5-G Supported Language Information of Profile: en File Version of Profile: 9.0	
	<0x1CF4C650> When a general extension module is installed, replace the module according to the actual configuration. Please check whether the memory is enough in personal computer of execution environment. Executing it again may solve the problem. Also, installing the latest version of the MELSOFT application to be used may solve the problem.	
	ОК	

(c) For Simple Motion Module Setting Tool (Version 1.180N as an example)



One possible cause is that the MELSOFT product and MR Configurator2 have different administrative privileges.

Open the properties of the MELSOFT product, find the "Run this program as an administrator" option under [Settings] in the [Compatibility] tab, and see if it is checked.

Check or uncheck "Run this program as an administrator" for all the following exe files, to make sure that they and the MELSOFT product are in the same state.

Those under "C:\Program Files (x86)\MELSOFT\MRC2" *1

Those under "[the folder specified for installation]\MRC2"

If any other MELSOFT product is in a different state, check or uncheck the option for it accordingly, as well.

*1 For a 32-bit OS, the path is "C:\Program Files\MELSOFT\MRC2".

(7) The software does not work properly after introducing an operation monitoring/gathering tool If a tool that monitors or gathers information of operations of external devices, files, or printers has been installed, specific software might be unable to run.

For example, e-Manual might not be displayed in the docking help window of MR Configurator2. Check the troubleshooting items and manuals of the operation monitoring/gathering tool and review settings to avoid the issue.

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
Sep., 2010 Mar., 2012	IB(NA)0300163-A 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" 2-6 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 Jun., 2016	IB(NA)0300163-P IB(NA)0300163-Q	 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 1-3 Add MR-MT2□□□
		 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)
		2-7 Add notes and modify the explanations of (5) and (6)
Apr., 2022	IB(NA)0300163ENG-AE	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"

Revision Date	*Manual Number	Revision
Apr., 2023 IB(NA)0300163ENG-A0	IB(NA)0300163ENG-AG	 1-9 Delete the descriptions of Windows[®] 7, Windows[®] 8, and Windows[®] 8.1 1-10 Modify the notes
		 1-12 Add a figure for case (3) Ethernet 1-20 Delete the descriptions for Windows[®] 7 and Windows[®] 8
		2-11, 2-13 Modify the descriptions for "ABS Data Display" and "Object Monitor"
		 3-2 Delete the description of the OS 4-2 Delete the descriptions of Windows[®] 7, Windows[®] 8, and Windows[®] 8.1
		4-4 Add the troubleshooting for the errors that occur when opening MR Configurator2 via another MELSOFT product
		4-5 Add the troubleshooting for software operation issues after introducing an operation monitoring/gathering tool

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