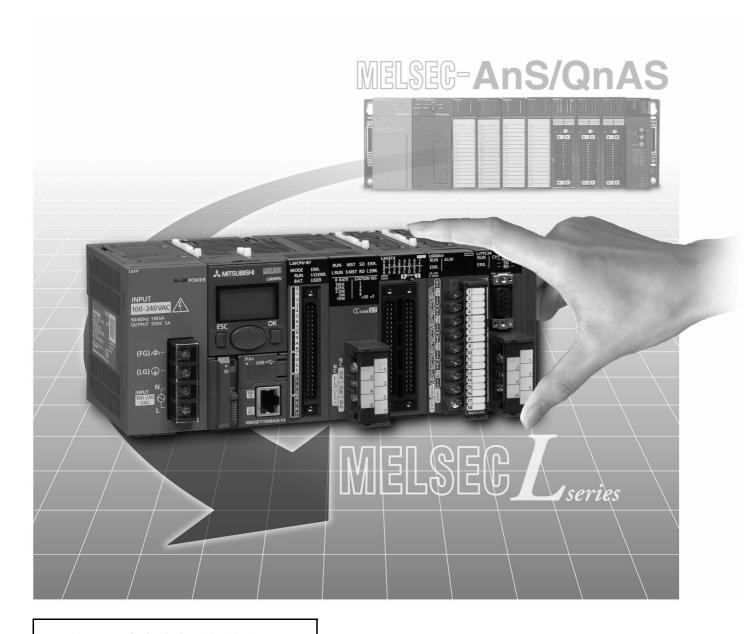




Programmable Controller

Transition from MELSEC-AnS/QnAS (Small Type) Series to L Series Handbook

(Network Modules)



Apr. 2018 Edition

SAFETY PRECAUTIONS

(Read these precautions before using this product.)

Before using this product, please read this handbook and the relevant manuals introduced in this handbook carefully and pay full attention to safety to handle the product correctly.

The precautions given in this handbook are concerned with this product only. For the safety precautions of the programmable controller system, refer to the user's manual for the CPU module used.

In this manual, the safety precautions are classified into two levels: "/NWARNING" and "/NCAUTION".

<u>∕</u>İ. WARNING

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

Indicates that incorrect handling may cause hazardous conditions, resulting in minor or moderate injury or property damage.

Under some circumstances, failure to observe the precautions given under "_____CAUTION" may lead to serious consequences.

Observe the precautions of both levels because they are important for personal and system safety.

Make sure that the end users read this handbook and then keep the handbook in a safe place for future reference.

[Design Precautions]

WARNING

- For the operating status of each station after a communication failure in the data link or the network, refer to the manuals for the modules used.
 - Incorrect output or malfunction due to a communication failure may result in an accident.
- When connecting a peripheral with the CPU module or connecting a personal computer with an intelligent function module to modify data of a running programmable controller, configure an interlock circuit in the program to ensure that the entire system will always operate safely. For other forms of control (such as program modification or operating status change) of a running programmable controller, read the relevant manuals carefully and ensure that the operation is safe before proceeding.

Especially, when a remote programmable controller is controlled by an external device, immediate action cannot be taken if a problem occurs in the programmable controller due to a communication failure.

To prevent this, configure an interlock circuit in the program, and determine corrective actions to be taken between the external device and CPU module in case of a communication failure.

[Design Precautions]

NWARNING

- Do not write any data to the "system area" of the buffer memory in the intelligent function module.
 Also, do not use any "use prohibited" signal as an output signal from the CPU module to the intelligent function module.
 - Doing so may cause malfunction of the programmable controller system.
- To set the auto refresh parameter, select the device Y for the remote output (RY) refresh device. If a device other than Y, such as M and L, is selected, the CPU module holds the device status even after its status is changed to STOP.
 - For how to stop data link, refer to the manuals for the modules used.
- If a communication cable is disconnected, the network may be unstable, resulting in a communication failure of multiple stations.
 - Configure an interlock circuit in the program to ensure that the entire system will always operate safely even if communications fail.
 - Failure to do so may result in an accident due to an incorrect output or malfunction.

[Design Precautions]

<u>^</u>CAUTION

 Do not install the control lines or communication cables together with the main circuit lines or power cables.

Keep a distance of 100mm or more between them.

Failure to do so may result in malfunction due to noise.

[Installation Precautions]

MARNING

 Shut off the external power supply (all phases) used in the system before connecting or disconnecting a module.

Failure to do so may result in electric shock or cause the module to fail or malfunction.

[Installation Precautions]

! CAUTION

- Use the programmable controller in an environment that meets the general specifications in the Safety Guidelines provided with the CPU module or head module.
 - Failure to do so may result in electric shock, fire, malfunction, or damage to or deterioration of the product.
- To interconnect modules, engage the respective connectors and securely lock the module joint levers.
 - Incorrect interconnection may cause malfunction, failure, or drop of the module.
- Do not directly touch any conductive parts and electronic components of the module.
 Doing so can cause malfunction or failure of the module.

[Wiring Precautions]

WARNING

- Shut off the external power supply (all phases) used in the system before wiring.
 Failure to do so may result in electric shock or cause the module to fail or malfunction.
- After installation and wiring, attach the included terminal cover to the module before turning it on for operation.

Failure to do so may result in electric shock.

[Wiring Precautions]

!CAUTION

- Use applicable solderless terminals and tighten them within the specified torque range.
 If any spade solderless terminal is used, it may be disconnected when a terminal block screw comes loose, resulting in failure.
- Do not install the control lines or communication cables together with the main circuit lines or power cables

Failure to do so may result in malfunction due to noise.

- Place the cables in a duct or clamp them.
 - If not, dangling cable may swing or inadvertently be pulled, resulting in damage to the module or cables or malfunction due to poor contact.
- Tighten the terminal block screws within the specified torque range.
 - Undertightening can cause short circuit, fire, or malfunction.
 - Overtightening can damage the screw and/or module, resulting in drop, short circuit, fire, or malfunction.
- When disconnecting the cable from the module, do not pull the cable by the cable part.
 - For the cable with connector, hold the connector part of the cable.
 - For the cable connected to the terminal block, loosen the terminal screw.
 - Pulling the cable connected to the module may result in malfunction or damage to the module or cable.
- Prevent foreign matter such as dust or wire chips from entering the module.
 - Such foreign matter can cause a fire, failure, or malfunction.
- A protective film is attached to the top of the module to prevent foreign matter, such as wire chips, from entering the module during wiring.
 - Do not remove the film during wiring.
 - Remove it for heat dissipation before system operation.
- Use CC-Link dedicated cables for a CC-Link system.
 - If not, the performance of the CC-Link system is not guaranteed.
 - For the maximum station-to-station distance and the overall cable distance, follow the specifications in the manuals for the modules used.
 - If not, normal data transmission is not guaranteed.

[Startup and Maintenance Precautions]

WARNING

- Do not touch any terminal while power is on. Doing so will cause electric shock or malfunction.
- Shut off the external power supply (all phases) used in the system before cleaning the module or retightening the terminal block screws.

Failure to do so may result in electric shock.

[Startup and Maintenance Precautions]

CAUTION

- Do not disassemble or modify the modules. Doing so may cause failure, malfunction, injury, or a fire.
- Shut off the external power supply (all phases) used in the system before connecting or disconnecting a module.
 - Failure to do so may cause the module to fail or malfunction.
- Tighten the terminal block screws within the specified torque range.
 Undertightening can cause drop of the component or wire, short circuit, or malfunction.
 Overtightening can damage the screw and/or module, resulting in drop, short circuit, or malfunction.
- After the first use of the product (module and terminal block), the number of connections/ disconnections is limited to 50 times (in accordance with IEC 61131-2).
 Exceeding the limit may cause malfunction.
- Before handling the module, touch a conducting object such as a grounded metal to discharge the static electricity from the human body.

Failure to do so may cause the module to fail or malfunction.

[Disposal Precautions]

CAUTION

When disposing of this product, treat it as industrial waste.

●CONDITIONS OF USE FOR THE PRODUCT**●**

- (1) Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions;
 - i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident; and
 - ii) where the backup and fail-safe function are systematically or automatically provided outside of the PRODUCT for the case of any problem, fault or failure occurring in the PRODUCT.
- (2) The PRODUCT has been designed and manufactured for the purpose of being used in general industries.

MITSUBISHI SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY the PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER, INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR the PRODUCT. ("Prohibited Application")

Prohibited Applications include, but not limited to, the use of the PRODUCT in;

- Nuclear Power Plants and any other power plants operated by Power companies, and/or any
 other cases in which the public could be affected if any problem or fault occurs in the PRODUCT.
- Railway companies or Public service purposes, and/or any other cases in which establishment of a special quality assurance system is required by the Purchaser or End User.
- Aircraft or Aerospace, Medical applications, Train equipment, transport equipment such as
 Elevator and Escalator, Incineration and Fuel devices, Vehicles, Manned transportation,
 Equipment for Recreation and Amusement, and Safety devices, handling of Nuclear or
 Hazardous Materials or Chemicals, Mining and Drilling, and/or other applications where there is a
 significant risk of injury to the public or property.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTs are required. For details, please contact the Mitsubishi representative in your region.

REVISIONS

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

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Apr. 2018	L(NA)08260ENG-C	Partial correction Cover, GENERIC TERMS AND ABBREVIATIONS, Section 2.2, 2.3, 2.4, 2.5, 2.6

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- For the products shown in handbooks for transition, catalogues, and transition examples, refer to the manuals for the relevant products and check the detailed specifications, precautions for use, and restrictions before replacement.
 - For the products manufactured by Mitsubishi Electric Engineering Co., Ltd., Mitsubishi Electric System & Service Co., Ltd., and other companies, refer to the catalogue for each product and check the detailed specifications, precautions for use, and restrictions before use.
 - The manuals and catalogues for our products, products manufactured by Mitsubishi Electric Engineering Co., Ltd., and Mitsubishi Electric System & Service Co., Ltd. are shown in Appendix of each handbook for transition.
- Products shown in this handbook are subject to change without notice.

GENERIC TERMS AND ABBREVIATIONS

Unless otherwise specified, this handbook uses the following generic terms and abbreviations.

Generic term/abbreviation	Description				
■Series					
A series	The abbreviation for large types of Mitsubishi Electric MELSEC-A series programmable				
A selles	controllers				
AnS series	The abbreviation for small types of Mitsubishi Electric MELSEC-A series programmable				
Alio selles	controllers				
A/AnS series	A generic term for A series and AnS series				
QnA series	The abbreviation for large types of Mitsubishi Electric MELSEC-QnA series programmable				
QIIA SEIIES	controllers				
QnAS series	The abbreviation for small types of Mitsubishi Electric MELSEC-QnA series programmable				
QNA5 series	controllers				
QnA/QnAS series	A generic term for QnA series and QnAS series				
A/AnS/QnA/QnAS series	A generic term for A series, AnS series, QnA series, and QnAS series				
Q series	The abbreviation for Mitsubishi Electric MELSEC-Q series programmable controllers				
L series	The abbreviation for Mitsubishi Electric MELSEC-L series programmable controllers				
■CPU module type					
CPU module	A generic term for A series, AnS series, QnA series, QnAS series, Q series, and L series CPU				
CFO Module	modules				
Process CPU	A generic term for the Q02PHCPU, Q06PHCPU, Q12PHCPU, and Q25PHCPU				
Redundant CPU	A generic term for the Q12PRHCPU and Q25PRHCPU				
	A generic term for the Q00U(J)CPU, Q01UCPU, Q02UCPU, Q03UD(E)CPU, Q03UDVCPU,				
Universal model QCPU	Q04UD(E)HCPU, Q04UDVCPU, Q06UD(E)HCPU, Q06UDVCPU, Q10UD(E)HCPU,				
Universal model QCPU	Q13UD(E)HCPU, Q13UDVCPU, Q20UD(E)HCPU, Q26UD(E)HCPU, Q26UDVCPU,				
	Q50UDEHCPU, and Q100UDEHCPU				
LCPU	A generic term for the L02CPU, L02CPU-P, L26CPU-BT, and L26CPU-PBT				
■CPU module model					
ACPU	A generic term for MELSEC-A series CPU modules				
AnSCPU	A generic term for MELSEC-AnS series CPU modules				
	A generic term for the A1NCPU, A1NCPUP21/R21, A1NCPUP21-S3, A2NCPU, A2NCPU-S1,				
AnNCPU	A2NCPUP21/R21, A2NCPUP21/R21-S1, A2NCPUP21-S3(S4), A3NCPU, A3NCPUP21/R21,				
	and A3NCPUP21-S3				
A = A C D	A generic term for the A2ACPU, A2ACPU-S1, A3ACPU, A2ACPUP21/R21, A2ACPUP21/				
AnACPU	R21-S1, and A3ACPUP21/R21				
ALIODIII	A generic term for the A2UCPU, A2UCPU-S1, A3UCPU, A4UCPU, A2USCPU, A2USCPU-S1,				
AnUCPU	and A2USHCPU-S1				
AnUS(H)CPU	A generic term for the A2USCPU, A2USCPU-S1, and A2USHCPU-S1				
A/AnSCPU	A generic term for the ACPU and AnSCPU				
AnN/AnACPU	A generic term for the AnNCPU and AnACPU				
AnN/AnA/AnSCPU	A generic term for the AnNCPU, AnACPU, and AnSCPU				
QnACPU	A generic term for MELSEC-QnA series CPU modules				
QnASCPU	A generic term for MELSEC-QnAS series CPU modules				
QnA/QnASCPU	A generic term for QnACPU and QnASCPU				
A/AnS/QnA/QnASCPU	A generic term for ACPU, AnSCPU, QnACPU, and QnASCPU				
QCPU	A generic term for MELSEC-Q series CPU modules				
LCPU	A generic term for MELSEC-L series CPU modules				

INTRODUCTION

1.1 Transition from CC-Link for AnS/QnAS series to CC-Link for L series

This handbook describes how to replace A1SJ61BT11 or A1SJ61QBT11 type CC-Link system master/local modules with LJ61BT11 type CC-Link system master/local modules or the built-in CC-Link function of the CPU module.

CC-Link dedicated cables, remote I/O stations, remote device stations, and intelligent device stations currently used in the system can be utilized as is, except for some models.

For the models that cannot be utilized, refer to Section 2.7.

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2

CC-LINK MODULE REPLACEMENT

2.1 List of CC-Link Modules to be Replaced

(1) AnS series

AnS series	L series alternative model
A1SJ61BT11	L26CPU-BT/PBT (Built-in CC-Link function), LJ61BT11*1

(2) QnAS series

QnAS series model	L series alternative model
A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function), LJ61BT11*1

*1 The number of CC-Link modules that can be connected to an LCPU is as follows:

L02SCPU/-P, L02CPU/-P: Up to two modules

L06CPU/-P, L26CPU/-P, L26CPU-BT/PBT: Up to four modules

This is the number of modules to which parameters can be set using a programming tool. If dedicated instructions are used to set parameters, CC-Link modules can be connected up to the maximum number of modules connectable to the LCPU. For dedicated instructions, refer to the manual for the module used.

The built-in CPU function of the L26CPU-BT/PBT is counted as one module.

2.2 Performance Specifications Comparison

2.2.1 Module performance specifications

O : Compatible, \triangle : Partial change required, \times : Incompatible

Specifications					
Item	A1SJ61BT11 A1SJ61QBT11	L26CPU-BT/PBT (Built- in CC-Link function)	LJ61BT11	Compatibility	Precautions for replacement
Transmission speed	Can be selected from 156k	bps/625kbps/2.5Mbps/5M	0		
Maximum station-to-station distance (maximum transmission distance)	Differs depending on the transmission speed. (Refer to the manual.)			0	
	64 modules				
Maximum number of connected modules (when set as a master station)	Note that the following conditions must be satisfied. $\{(1\times a)+(2\times b)+(3\times c)+(4\times d)\}\leq 64$ a: Number of 1-station occupied modules b: Number of 2-station occupied modules c: Number of 3-station occupied modules d: Number of 4-station occupied modules			0	
	$ \{(16 \times A) + (54 \times B) + (88 \times C)\} \leq 2304 $ A: Number of remote I/O stations ≤ 64 stations B: Number of remote device stations ≤ 42 stations C: Number of local stations, standby master stations and intelligent device stations ≤ 26 stations				
Number of occupied stations (when set as a local station)	1 to 4 stations (Switched with DIP switch) 1 to 4 stations (Switched with GX Works2 parameter settings)			0	The specifications are the same although the setting methods are different.
Maximum number of link points per system	Remote I/O (RX, RY): 2048 points Remote register (RWw): 256 points Remote register (RWr): 256 points			0	
Number of link points per remote station/local station	Remote I/O (RX, RY): 32 p Remote register (RWw): 4 Remote register (RWr): 4 p	points	nts)	0	
Communication method		Broadcast polling		0	
Synchronization method		Frame synchronization		0	
Encoding method		NRZI method		0	
Transmission method		Bus (RS-485)		0	
Transmission format	High-	Level Data Link Control (H	DLC)	0	
Error control system		CRC (X ¹⁶ +X ¹² +X ⁵ +1)		0	
Connection cable	CC-Link dedicated cable/C compatible CC-Link dedicated	C-Link dedicated high-per	ormance cable/Ver.1.10-	0	Refer to Section 2.2.2.
RAS function	Automatic return function Slave station cut-off function Error detection by the link special relay/register			0	
Number of parameter registrations to E ² PROM	10000 times -			Δ	GX Works2 parameter settings are performed instead of the parameter registration to E ² PROM.
Number of occupied I/O points	32 points (I/O assignment: special 32 points) 32 points (I/O assignment: intelli 32 points)			0	
Internal current consumption (5VDC)	0.4A	*1	0.46A	Δ	Recalculation of internal current consumption (5VDC) is required.
Weight	0.25kg	*1	0.15kg	Δ	

^{*1} Refer to the MELSEC-L CPU Module User's Manual (Hardware Design, Maintenance and Inspection).

2.2.2 Cable performance specifications

According to the specifications for the L series CC-Link modules, the Ver.1.10-compatible CC-Link dedicated cables shall be used. When modules are replaced, however, the CC-Link connection cables are common between AnS/QnAS and L series.

Even after the modules are replaced, the CC-Link dedicated cables used for the AnS/QnAS series modules can be utilized as is for the L series modules.

When a new network is constructed using the L series CC-Link modules, use the Ver.1.10-compatible CC-Link dedicated cables.

For the CC-Link dedicated cables specifications, visit the CC-Link Partner Association web site: www.cc-link.org.

2.3 Functional Comparison

O : Compatible, Δ : Partial change required, \star : Incompatible

		Description	·		
Item	A1SJ61BT11	A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement
Communication with remote I/O stations	Performs on/off data co	mmunication with remo	ote I/O stations.	0	
Communication with remote device stations	Performs on/off data an device stations.	d numeric data commu	0		
Communication with local stations	Performs on/off data an stations.	d numeric data commu	ınication with local	0	
Communication with intelligent device stations	Performs cyclic transmi intelligent device station		nsmission with	0	
Reserved station function	Sets remote and local s reserved stations to pre data link faulty stations. If the currently connecte be performed.	events these stations from	0		
Error invalid station setting function	Prevents remote and lo system configuration from		0		
Data link status setting when the master station CPU module has an error	Sets the data link status after an operation continuation error occurred in the master station CPU module.			0	
Parameter registration to E ² PROM	Eliminates the necessity to write the parameters to the E ² PROM each time the master module starts up.			Δ	Set parameters using GX Works2 instead of registering parameters to the E ² PROM.
Setting the status of input data from a data link faulty station	Sets the status (clear or where a data link error power-off.	, , ,	•	0	
Module reset function from a sequence program	Resets the CPU module program when the switch or an error occurred with	ch setting is changed	-	×	If the switch setting is changed, power off and on the programmable controller system or reset the CPU module.
Data link stop/restart	Stops or restarts the da	ta link that is being exe	ecuted.	0	
Automatic return function	Allows the module which has been disconnected from the network due to a reason such as power-off to automatically join the data link after it returns to the normal status.			0	
Slave station cut-off function	Disconnects a slave station that cannot continue the data link due to a reason such as power-off so that data link can continue among normal slave stations only.			0	
Data link status check (SB/SW)	Checks the data link sta This check can be used		uence program.	0	

(To the next page)

O : Compatible, $\, \triangle$: Partial change required, $\, \times :$ Incompatible

	· · · · · · · · · · · · · · · · · · ·				ange required, ×: incompatible
Item	A1SJ61BT11	Description A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement
Offline test	The following tests are Hardware test: Checked module itself. Line test: Checked the module. Parameter verification parameter settings.	ks the operation of a	The following tests are performed. • Hardware test: Checks the operation of a module itself. • Loop test: Checks the connection status of a module.	Δ	The specification method of hardware test/line test differs. For details, refer to the manual for the module used. Check the set parameter contents in network parameters using GX Works2.
Parameter registration function	Sets the following two types of parameters using the sequence program (TO instruction) or dedicated instruction. Network parameter Automatic refresh parameter	Sets the following two types of parameters using GX Developer. Network parameter Automatic refresh parameter	Sets the following two types of parameters using GX Works2. • Network parameter • Automatic refresh parameter	Δ	Set parameters using GX Works2 instead of the sequence program (TO instruction) or dedicated instruction.
Scan synchronous function	Synchronous mode: Performs data link in synchronization with the sequence program. Asynchronous mode: Performs data link out of synchronization with the sequence program.			0	
Standby master function	Continues the data link station to the standby r master station.	by switching the contro master station when a p		0	
Dedicated instruction (RIRD, RIWT, RIRCV, RISEND, RIFR, RITO)	Enables transient transmission to intelligent device or local stations.			Δ	Modify the sequence program because the instruction formats are different.
Communication instruction (SEND, RECV, READ, SREAD, WRITE, SWRITE, REQ)	-	Sends/receives data to/from other stations on the CC-Link network, and reads/ writes data from/to other stations.	-	Δ	Replace the READ and WRITE instructions with the dedicated instructions (RIRD, RIWT). Any other instructions cannot be replaced.
Remote I/O net mode	Enables communicatio	n between master and i	remote I/O stations.	Δ	Set parameters using GX Works2.
Temporary error invalid station setting function	Replaces modules use detecting an error.	d as remote stations du		0	
Online test function	-	Enables GX Developer to perform the loop test and start/ stop of the link.	Enables GX Works2 to perform the loop test and start/stop of the link.	0	
Monitor/diagnosis function	-	Enables GX Developer to perform monitoring and diagnosis.	Enables GX Works2 to perform monitoring and diagnosis.	0	

(To the next page)

 O : Compatible, \triangle : Partial change required, $\mathsf{x} \colon \mathsf{Incompatible}$

	Description				
			L26CPU-BT/PBT		Precautions for replacement
Item	A1SJ61BT11	A1SJ61QBT11	(Built-in CC-Link	Compatibility	
	AISJOIDIII		function)	j .	
			LJ61BT11		
			The functions are		
			added for the CC-Link		
			Ver.1 mode such as		This function is added for
CC-Link Ver.2 mode			increment of the		the CC-Link Ver.1 mode,
CC-LINK Ver.2 mode		-	maximum number of	Δ	and not used after
			link points and		replacement.
			number of link points		
			per module		

2.4 Switch Setting Comparison

O : Compatible, $\, \Delta$: Partial change required, $\, \times$: Incompatible

			Description			
Switch name	A1SJ61BT11	A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement	
Station number switch	rsetting	The station number of a rotary switches. [Setting range] In remote net mode Master station: 0 Local station: 1 to 64 Standby master statio In remote I/O net mod Master station: 1 to 64 (The last remote I/O s set.)	n: 1 to 64 e	There is no switch. The station number of a module is set in network parameter ("Station No.") using GX Works2. [Setting range] Master station: 0 Local station: 1 to 64 Standby master station: 1 to 64	Δ	When the module is in remote I/O net mode, set the last station number in network parameter "All connect count" using GX Works2.
Mode setting s	witch	The operation status of a rotary switch.	a module is set using a	There is no switch. The operation status of a module is set in network parameter ("Mode") using GX Works2.	Δ	The remote net mode and remote I/O net mode are specified in network parameter using GX Works2.
Transmission s setting switch	speed			There is no switch. The transmission speed of a module is set in network parameter "Transmission speed" using GX Works2.	Δ	
Condition settii switch	ng	The operation conditions are set using the DIP switches. [Settings] • Station type • Input data status of the data link error station • Number of occupied stations • Module mode (intelligent mode, I/O mode)	The operation conditions are set using the DIP switches. [Settings] • Station type • Input data status of the data link error station Number of occupied stations	There is no switch. The conditions are set in network parameters using GX Works2.	Δ	The module mode setting is included in the parameter settings.

2.5 Parameter Comparison

O: Compatible, \triangle : Partial change required, \times : Incompatible

		Description			
Parameter name	A1SJ61BT11	A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement
Network parameter	Set parameters in a sequence program (TO instruction), or using the dedicated instruction (RLPA).	Set parameters using GX Developer, or a sequence program (TO instruction)	Set parameters using GX Works2, or the dedicated instruction (RLPASET).	Δ	Set new network parameters using GX Works2 or the dedicated instruction (RLPASET).*1*2 For the mode, specify "Remote net [Ver.1 mode]" or "Remote I/O net mode".
Automatic refresh parameter	Read/write cyclic data using the FROM and TO instructions, or set parameters using the dedicated instruction (RRPA).	Set parameters using GX Developer, or read/write cyclic data using the FROM and TO instructions.	Set parameters using GX Works2, or read/write cyclic data using the FROM and TO instructions.	Δ	Set parameters using GX Works2, or read/write cyclic data using the FROM and TO instructions. If the dedicated instruction (RLPASET) was used to set network parameters, read/ write cyclic data using the FROM and TO instructions.

^{*1} Setting L series CC-Link module parameters

Parameters can be set up to four modules using GX Works2. For the fifth and subsequent modules, use the dedicated instruction to set parameters.

For details, refer to the MELSEC-L CC-Link System Master Local Module User's Manual.

^{*2} Delete the existing network parameter setting program.

2.6 Program Comparison

(1) Input signals

O : Compatible, \triangle : Partial change required, \star : Incompatible

		Signal name				
Input signal	A1SJ61BT11	A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement	
X0	Module error			0		
X1	Host data link status			0		
X2	Parameter setting status		Use prohibited	Δ	Delete the part corresponding to the function from the sequence program, and check with SB006D (Parameter setting status).	
X3	Other station data link sta	tus		0		
X4	Module reset acceptance complete		Use prohibited	×	Delete the part corresponding to the function from the sequence program. If the switch setting is changed, power off and on the programmable controller system or reset the CPU module.	
X5	Use prohibited			0		
X6	Data link startup by buffer normal completion					
X7	Data link startup by buffer completion					
X8	completion	•		Δ	Delete the part corresponding to the function from the sequence program, and set	
X9	Data link startup by E ² PR completion		Use prohibited		parameters using GX Works2 or the dedicated instruction (RLPASET).	
XA	Parameter registration to completion	E ² PROM normal				
ХВ	Parameter registration to completion	E ² PROM error				
XC	Use prohibited			0		
XD	E ² PROM erasure normal		- Use prohibited	Δ	Delete the part corresponding to the function from the sequence program, and set parameters using GX Works2 or the	
XE	E ² PROM erasure abnorm	nal completion			dedicated instruction (RLPASET).	
XF	Module ready			0		
X10						
X11 X12						
X12	-					
X14						
X15						
X16						
X17	Use prohibited			0		
X18						
X19 X1A	1					
X1B						
X1C	1					
X1D						
X1E						
X1F						

(2) Output signals

O : Compatible, \triangle : Partial change required, \times : Incompatible

	Signal name				
Output signal	A1SJ61BT11	A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link func- tion) LJ61BT11	Compatibility	Precautions for replacement
Y0	Refresh instruction		Use prohibited	Δ	Data are automatically refreshed. Delete the part corresponding to the function from the sequence program.
Y1					
Y2	Use prohibited			0	
Y3					
Y4	Module reset request		Use prohibited	×	Delete the part corresponding to the function from the sequence program. If the switch setting is changed, power off and on the programmable controller system or reset the CPU module.
Y5	Use prohibited			0	
Y6	Data link startup request from buffer memory parameters Use prohibited		Use prohibited	Δ	Delete the part corresponding to the function from the sequence program, and set parameters using GX Works2 or the dedicated instruction (RLPASET).
Y7	Use prohibited			0	
Y8	Data link startup request from the E ² PROM parameters		Use prohibited	Δ	Delete the part corresponding to the function from the sequence program, and set parameters using GX Works2 or the dedicated instruction (RLPASET).
Y9	Use prohibited			0	
YA			Use prohibited	Δ	Delete the part corresponding to the function from the sequence program, and set parameters using GX Works2 or the dedicated instruction (RLPASET).
YB	Use prohibited			0	
YC YD	E ² PROM erasure request Use prohibited			Δ	Delete the part corresponding to the function from the sequence program, and set parameters using GX Works2 or the dedicated instruction (RLPASET).
YE YF Y10 Y11 Y12 Y13 Y14 Y15 Y16 Y17 Y18 Y19 Y1A Y1B	Use prohibited			Ο	
Y1C Y1D	Bank switch specification of buffer Use prohibited memory			Δ	Bank switching is not required (refer to Section 2.6.1).
Y1E Y1F	Use prohibited			0	

2.6.1 Buffer memory address comparison

(1) AnS series

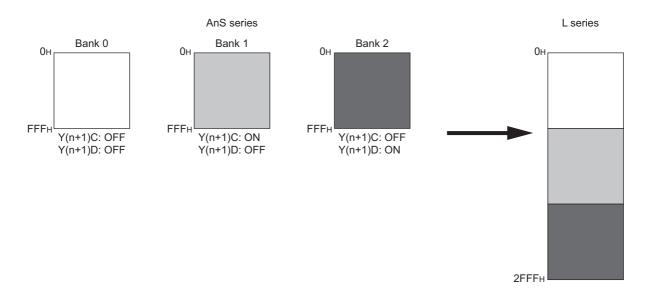
The buffer memory of the AnS series module is separated into three banks, bank 0, 1, and 2. The banks can be switched by turning on/off Y1C and Y1D.

With the L series modules, however, the buffer memory is not separated and bank switching is not required.

For this reason, the buffer memory addresses for the communication buffer and the automatic update buffer differ between the AnS and L series modules. (The addresses in parenthesis are for the L series modules.)

O: Compatible, \triangle : Partial change required, \times : Incompatible

	Address		Na	ame		
Bank	Hexadecimal	Decimal	A1SJ61BT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement
	0 _H to 5F _H	0 to 95	Parameter information area	Parameter information area	0	
	60 _H to 7F _H	96 to 127	Use prohibited	Use prohibited	0	
	80 _H to CD _H	128 to 205	Parameter information area	Parameter information area	0	
	CE _H to DF _H	206 to 223	Use prohibited	Parameter information area	Δ	These areas are added for the L series modules, and not used after replacement.
	E0 _H to 15F _H	224 to 351	Remote input (RX)	Remote input (RX)	0	
	160 _H to 1DF _H	352 to 479	Remote output (RY)	Remote output (RY)	0	
0	1E0 _H to 2DF _H	480 to 735	Remote register (RWw)	Remote register (RWw)	0	
	2E0 _H to 3DF _H	736 to 991	Remote register (RWr)	Remote register (RWr)	0	
	3E0 _H to 5DF _H	992 to 1503	Use prohibited	Slave station offset, size information	Δ	These areas are added for the L series modules, and not used after replacement.
	5E0 _H to 5FF _H	1504 to 1535	Link special relay (SB)	Link special relay (SB)	0	
	600 _H to 7FF _H	1536 to 2047	Link special register (SW)	Link special register (SW)	0	
	800 _H to 9FF _H	2048 to 2559	Use prohibited	Use prohibited	0	
	A00 _H to FFF _H	2560 to 4095	Random access buffer	Random access buffer	0	
1	0 to FFF _H (1000 _H to 1FFF _H)	0 to 4095 (4096 to 8191)	Communication buffer	Communication buffers	Δ	Delete the bank switching processing program.
2	0 to FFF _H (2000 _H to 2FFF _H)	0 to 4095 (8192 to 12287)	Automatic updating buffer	Automatic update buffer	Δ	Delete the bank switching processing program.
-	- (3000 _H to 3FFF _H)	- (12288 to 16383)		Use prohibited	-	
-	- (4000 _H to 53FF _H)	- (16384 to 21503)	-	Ver.2 compatible area	Δ	These areas are added for the L series modules, and not used after replacement.
-	- (5400 _H to 7FFF _H)	- (21504 to 32767)		Use prohibited	-	



(2) QnAS series

O : Compatible, Δ : Partial change required, \times : Incompatible

Buffer memory address		Buffer m	emory name		
Hexadecimal	Decimal	A1SJ61QBT11	L26CPU-BT/PBT (Built-in CC-Link function) LJ61BT11	Compatibility	Precautions for replacement
0 _H to 5F _H	0 to 95	Parameter information area	Parameter information area	0	
60 _H to 7F _H	96 to 127	Use prohibited	Use prohibited	0	
80 _H to CD _H	128 to 205	Parameter information area	Parameter information area	0	
CE _H to DF _H	206 to 223	Use prohibited	Parameter information area	Δ	These areas are added for the L series modules, and not used after replacement.
E0 _H to 15F _H	224 to 351	Remote input (RX)	Remote input (RX)	0	
160 _H to 1DF _H	352 to 479	Remote output (RY)	Remote output (RY)	0	
1E0 _H to 2DF _H	480 to 735	Remote register (RWw)	Remote register (RWw)	0	
2E0 _H to 3DF _H	736 to 991	Remote register (RWr)	Remote register (RWr)	0	
3E0 _H to 5DF _H	992 to 1503	Use prohibited	Slave station offset, size information	Δ	These areas are added for the L series modules, and not used after replacement.
5E0 _H to 5FF _H	1504 to 1535	Link special relay (SB)	Link special relay (SB)	0	
600 _H to 7FF _H	1536 to 2047	Link special register (SW)	Link special register (SW)	0	
800 _H to 9FF _H	2048 to 2559	Use prohibited	Use prohibited	0	
A00 _H to FFF _H	2560 to 4095	Random access buffer	Random access buffer	0	
1000 _H to 1FFF _H	4096 to 8191	Transmission and receiving buffer	Communication buffers	0	
2000 _H to 2FFF _H	8192 to 12287	Automatic updating buffer	Automatic update buffer	0	
- (3000 _H to 3FFF _H)	- (12288 to 16383)		Use prohibited	-	
- (4000 _H to 53FF _H)	- (16384 to 21503)	-	Ver.2 compatible area	Δ	These areas are added for the L series modules, and not used after replacement.
- (5400 _H to 7FFF _H)	- (21504 to 32767)		Use prohibited	-	

2.6.2 Link special relay (SB)/link special register (SW) comparison

(1) AnS series

The following table lists SB/SW areas which have different application between the AnS series and L series.

(a) Link special relay (SB)

 \bigcirc : Compatible, \triangle : Partial change required, \times : Incompatible

		Name				
Number		L26CPU-BT/PBT		Compatibility	Precautions for replacement	
Number	A1SJ61BT11	(Built-in CC-Link	LJ61BT11	Companionity	r recautions for replacement	
	Master station switching	function)	standby master			
SB0001	Master station switching data link start	Refresh instruction at switching	standby master	0	The specifications are the same.	
	data iiiik start				Use this area to set network	
SB0003		Refresh instruction whe parameters by the dec		Δ	parameters using the RLPASET instruction.	
SB0007	_	Master station duplica request	tion error canceling			
SB000B		Transmission speed to	est request		These areas are added for the L	
SB000C	1	Forced master switchi		Δ	series modules, and not used after	
	1	Remote device station	-		replacement.	
SB000D		procedure registration	instruction			
	Master station switch data	Refresh instruction ac				
SB0042	link start acceptance	status at standby mas	=		These areas are added for the L	
000040	Master station switch data	Refresh instruction co		Δ	series modules, and not used after replacement.	
SB0043	link start complete	standby master switch	ning			
SB0046	-	Forced master switching executable status				
SB004E	Parameter setting test	Parameter information read			The application was changed.	
SB004E	acceptance status	acknowledgement status			Delete the part corresponding to	
				×	the function from the sequence	
SB004F	Parameter setting test	Parameter information read completion status		,	program because the parameter	
350041	complete status				setting test function is not required	
					in L series.	
SB0057		Master station duplica	tion error canceling			
		acknowledgement				
SB0058		Master station duplica	tion error canceling			
		complete				
SB005A			est acknowledgement			
SB005B		Master switching requ			These areas are added for the L	
SB005C	-	Forced master switchi	ng request	Δ	series modules, and not used after	
000050		acknowledgement			replacement.	
SB005D		Forced master switching request complete Execution status of remote device station initialization procedure				
SB005E						
SB005F		Completion status of remote device station				
		initialization procedure			Set the mode in network	
SB0069	Module mode	-	-	Δ	parameter for the L series	
					modules. (The mode can be checked in SW0060.)	
					checked in Syvuodu.)	

		Name			
Number	A1SJ61BT11	L26CPU-BT/PBT (Built-in CC-Link function)	LJ61BT11	Compatibility	Precautions for replacement
SB006F		Setting status of block guarantee of cyclic data per station			
SB0079		Master station return specification information			
SB007B		Host master/standby master operation status			These areas are added for the L
SB007C	-	Slave station refresh/compulsory clear setting status in case of CPU module STOP		Δ	series modules, and not used after replacement.
SB00B4		Standby master station test result			
SB0184		Transmission speed test result for standby master station			
SB0185		Transmission speed to	est accept status	1	
SB0186		Transmission speed to	est completion status		

(b) Link special register (SW)

O : Compatible, \triangle : Partial change required, \times : Incompatible

Name L26CPU-BT/PBT	
L 26CPIL-RT/PRT	
Number Competibility	Dunas visus for roules
Number A1SJ61BT11 (Built-in CC-Link LJ61BT11 Compatibility	Precautions for replacement
function)	
SW000B Dedicated instruction retry count setting Th	nese areas are added for the L
SW0014 to - Specification of remote device station to be △ se	eries modules, and not used after
SW0017 initialized rep	placement.
SW0043 Master station switch data Refresh instruction at standby master	ne specifications are the same.
link start result switching result	ie specifications are the same.
SW0052 Automatic CC-Link startup execution result	
SW0057 Master station duplication error canceling	
result	nese areas are added for the L
SW0058	eries modules, and not used after
SW0059 I Transmission speed setting status	placement.
SW005D Forced master switching instruction result	торисстви
SW005F Remote device station initialization	
procedure registration instruction result	
SW0062 I IModule operating status I \(\Lambda\)	the L series modules, parameter etting status is stored.
SW00B9 E ² PROM registration status	
SW00BA E ² PROM erasure result	These areas are not used because there is no E ² PROM in the L series modules (refer to Section 2.7).
Checks the number of - △ the	
SW00BB times when parameters can	
be registered to E ² PROM.	
Remote device station initialization	
SW0110 to procedure registration execution individual	
SW011F information (targets 1 to 16)	
SW0140 to	
SW0143 Compatible CC-Link ver. information	
SW0144 to 1 ICC-Link ver installation/parameter 1	nese areas are added for the L
SW0147 I I I I I I I I I I I I I I I I I I I	eries modules, and not used after
SW0148 Parameter mode	replacement.
SW0149 Host parameter mode	
SW183 Transmission speed test result	
SW0184 to Transmission speed test result for standby	
SW0187 master station	

(2) QnAS series

The following table lists SB/SW areas which have different application between the QnAS series and L series.

(a) Link special relay (SB)

O : Compatible, Δ : Partial change required, \times : Incompatible

		Name			: Partial change required, *: Incompatible
		L26CPU-BT/PBT			
Number	A1SJ61BT11	(Built-in CC-Link function)	LJ61BT11	Compatibility	Precautions for replacement
000004	Master station switching	Refresh instruction at	standby master		-
SB0001	data link start	switching	·	0	The specifications are the same.
000000		Refresh instruction wh	nen changing		
SB0003		parameters by the de	dicated instruction		
CD0007		Master station duplica	tion error canceling		These areas are added for the L
SB0007		request			
SB000B	_	Transmission speed to	est request	Δ	series modules, and not used after replacement.
SB000C		Forced master switch	ing		теріасеттетт.
SB000D		Remote device station	n initialization		
ОВОООВ		procedure registration	instruction		
SB0030	Communication instruction				These areas are not used in the L
	(1) acceptance				series modules.
SB0031	Communication instruction				Delete the part corresponding to
	(1) complete	<u> </u> -	-	Δ	the function from the sequence
SB0032	Communication instruction				program, and replace the READ
	(2) acceptance				and WRITE instructions with the
SB0033	Communication instruction				RIRD and RIWT instructions.
CD0040	(2) complete	Canada a atau a sitab	San arrandable etatus		
SB0046	_	Forced master switch		-	
SB0057		Master station duplica	ition error canceling		
	-	acknowledgement Master station duplica	tion arrar cancaling	-	
SB0058		complete	ition error cancelling		
SB005A	1		est acknowledgement	-	
SB005B	1	Master switching requ		-	These areas are added for the L
	-	Forced master switch		Δ	series modules, and not used after
SB005C		acknowledgement	3 - 4		replacement.
SB005D		Forced master switch	ing request complete	1	
000055		Execution status of re	mote device station		
SB005E		initialization procedure	е		
CDOOSE		Completion status of r	emote device station		
SB005F		initialization procedure	e		
					Set the mode in network
					parameter for the L series
SB0069	Module mode		-	Δ	modules.
					(The mode can be checked in
					SW0060.)
SB006F		Setting status of block	guarantee of cyclic		
	4	data per station		-	
SB0079		Master station return	specification		These areas are added for the L
	-	information		Δ	series modules, and not used after
SB007B		Host master/standby	master operation		replacement.
	4	status		-	
SB007C		Slave station refresh/o			
		setting status in case	of CPU module STOP		

		Name			
Number	A1SJ61BT11	L26CPU-BT/PBT (Built-in CC-Link function)	LJ61BT11	Compatibility	Precautions for replacement
SB00A0	RECV instruction (1)				These areas are not used in the L
SBOOAU	execution request flag				series modules.
	RECV instruction (2)	-		Δ	Delete the part corresponding to
SB00A1	()				the function from the sequence
	execution request flag				program.
SB00B4		Standby master station	test result		
SB0184		Transmission speed te	st result for standby		These areas are added for the L
360104	-	master station		Δ	series modules, and not used after
SB0185	1	Transmission speed te	st accept status	1	replacement.
SB0186		Transmission speed te	st completion status		

(b) Link special register (SW)

O: Compatible, \triangle : Partial change required, \times : Incompatible

			<u> </u>	<u> </u>	. I altial change required, A. Incompatible
	Name				
Neurobon		L26CPU-BT/PBT		Composibility	Dunas di una fau unale como un
Number	A1SJ61QBT11	(Built-in CC-Link	LJ61BT11	Compatibility	Precautions for replacement
		function)			
SW000B		Dedicated instruction i	retry count setting		
SW0014 to		Specification of remote	e device station to be		
SW0017		initialized			
SW0052		Automatic CC-Link sta	artup execution result		
CMOOF7		Master station duplica	tion error canceling		These areas are added for the L
SW0057	-	result		Δ	series modules, and not used after
SW0058		Detailed LED display s	status		replacement.
SW0059		Transmission speed s	etting status		
SW005D		Forced master switchi	ng instruction result		
SW005F		Remote device station	initialization		
500005F		procedure registration instruction result			
SW0062	Condition setting switch	Module operating status			The parameter setting status is
300002	status			Δ	stored in the L series modules.
SW00B9	E ² PROM registration status				
SW00BA	E ² PROM erasure result				These areas are not used because
	Check the number of times	-		Δ	there is no E ² PROM in the L series
SW00BB	when parameters can be				modules (refer to Section 2.7).
	registered to E ² PROM.				
C)MO110 to		Remote device station	initialization		
SW0110 to		procedure registration	execution individual		
SW011F		information (targets 1	to 16)		
SW0140 to		Compatible CC Link v	or information		
SW0143		Compatible CC-Link v	er. miormation		These areas are added for the L
SW0144 to		CC-Link ver. installation	on/parameter	Δ	series modules, and not used after
SW0147	-	matching status			replacement.
SW0148		Parameter mode			Topiacement.
SW0149		Host parameter mode			
SW0183		Transmission speed to	est result		
SW0184 to		Transmission speed to	est result for each		
SW0187		station			

2.7 Other Precautions

This section describes other precautions for module replacement.

(1) Peripheral connection modules

If an AJ65BT-G4 type peripheral connection module has been used in the AnS/QnAS series system, replace it with an AJ65BT-R2N type CC-Link system RS-232C interface module (setting to MELSOFT connection).

The AJ65BT-G4 type peripheral connection module cannot be used in the L series system. (The AJ65BT-G4-S3 type peripheral connection module can also be used in the L series system.)

(2) Processing time

The sequence scan time and link refresh time differs between AnS/QnAS and L series. For the processing time, refer to the manual for the module used.

(3) Parameter registration to E²PROM

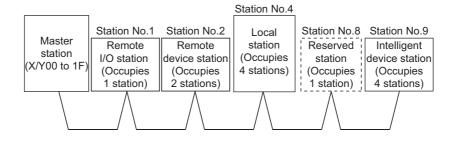
Since the L series CC-Link system master/local module does not have E^2PROM , delete the sequence program of the section corresponding to the parameter registration to E^2PROM .

To register parameters in the CPU module, set network parameters for the L series CC-Link system master/local module using GX Works2.

2.8 Parameter Setting Examples

This section shows examples of parameter settings for AnS series systems and L series systems. In AnS series systems, parameters are set using a sequence program (TO instruction), while parameters are set using GX Works2 in L series systems.

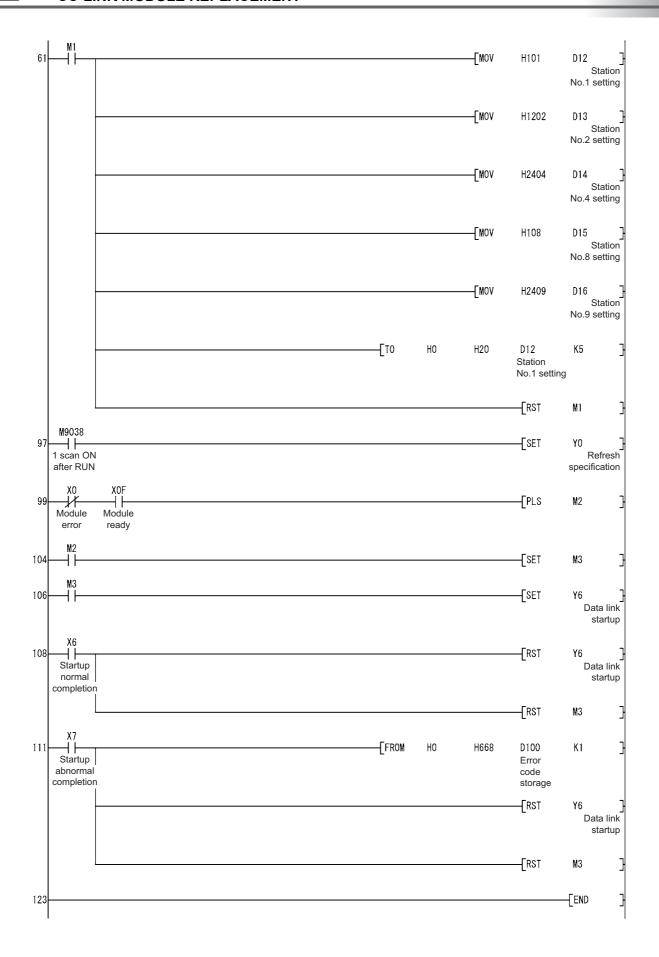
The system configuration will be as follows.



2.8.1 AnS series parameter setting example

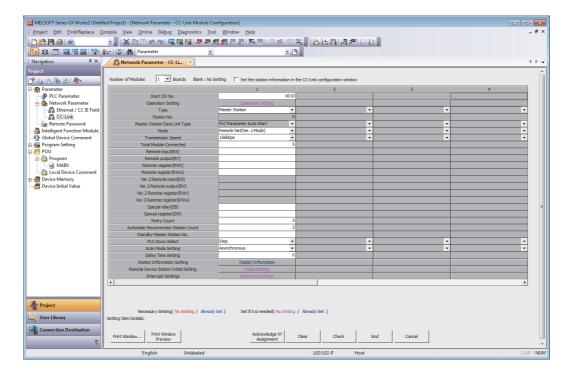
The following is a parameter setting example using a sequence program (TO instruction).

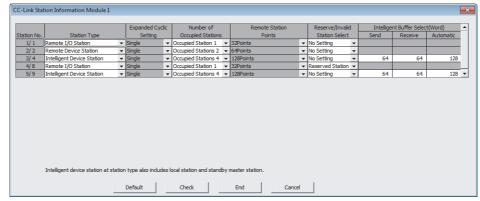
```
X0F
                                                                                                             -[PLS
                                                                                                                         MO
           Module
Module
 error
           ready
                                                                                                             -[SET
                                                                                                                         M1
                                                                                                  -[MOV
                                                                                                             К5
                                                                                                                         D0
                                                                                                                 Number of stations
                                                                                                                          5 stations
                                                                                                  -[MOV
                                                                                                             K5
                                                                                                                         D1
                                                                                                                   Number of retries
                                                                                                                             5 times
                                                                                                  -[MOV
                                                                                                             K2
                                                                                                                         D2
                                                                                                Number of automatic return modules
                                                                                                                          2 modules
                                                                           -TTO
                                                                                       H0
                                                                                                  Н1
                                                                                                             Number of stations
                                                                                                             5 stations
                                                                                                  -FMOV
                                                                                                                         D3
                                                                                                                 Stop at CPU failure
                                                                                                  Н6
                                                                                                             D3
                                                                                                                         K1
                                                                                                             Stop at
                                                                                                             CPU failure
                                                                                                  - MOV
                                                                                                             H80
                                                                                                                         D4
                                                                                                      Reserved station specification
                                                                                                                       Station No. 8
                                                                           -T0
                                                                                       НО
                                                                                                  H10
                                                                                                                         K1
                                                                                                             D4
                                                                                                             Reserved station
                                                                                                             specification
                                                                                                             Station No. 8
```



2.8.2 L series parameter setting example

The following is a parameter setting example using GX Works2.





APPENDICES

Appendix 1 External Dimensions

For external dimensions of modules described in this handbook, refer to the user's manual for each module.

Appendix 2 Spare Parts Storage

(1) The general specifications of programmable controllers are as follows. Please do not store spare parts under a high temperature or high humidity condition, even within the range guaranteed by the specifications.

Storage ambient temperature	-20 to 75°C
Storage ambient humidity	10 to 90%, no condensation

- (2) Store in a place avoiding direct sunlight.
- (3) Store under condition with less dust or no corrosive gas.
- (4) The battery capacity of an A6BAT or A8BAT battery or a lithium-coin battery (commercially available) for memory card will be decreased by its self-discharging even when not used. Replace it with a new one in 5 years as a guideline.
- (5) For a power supply module, CPU module with built-in power supply, or analog module that use any aluminum electrolytic capacitor, which is indicated in the table below, take the following measures since the characteristics will be deteriorated when the aluminum electrolytic capacitor is left un-energized for a long time.

Product	Model
CPU module	A1SJHCPU
(Power supply built-in type)	ATSJHOPO
Power supply module	A1S61PN, A1S62PN, A1S63P
Analog module	A1S64AD, A1S68AD, A1S62DA, A1S68DAI, A1S68DAV, A1S63ADA,
Analog module	A1S66ADA

[Countermeasures for preventing aluminum electrolytic capacitor characteristics deterioration] Apply the rated voltage to the aluminum electrolytic capacitor for several hours once a year to activate it. Or, rotate products at the periodic inspection (in every 1 year or two).

[Reference]

The life of an aluminum electrolytic capacitor, even if not used, under a normal temperature decreases approximately at 1/4 speed of the case when it is energized.

Appendix 3 Relevant Manuals

Appendix 3.1 Replacement handbooks

(1) Transition guides

No.	Manual name	Manual number	Model code
1	MELSEC-A/QnA Series Transition Guide	L08077E	-
2	MELSEC-AnS/QnAS (Small Type) Series Transition Guide	L08236E	-

(2) Transition handbooks

No.	Manual name	Manual number	Model code
1	Transition from MELSEC-AnS/QnAS (Small Type) Series to L Series Handbook	L08258ENG	
	(Fundamentals)	2002002110	
2	Transition from MELSEC-AnS/QnAS (Small Type) Series to L Series Handbook	L08259ENG	
2	(Intelligent Function Modules)	L00239ENG	-
3	Transition from MELSEC-AnS/QnAS (Small Type) Series to L Series Handbook	L08260ENG	_
3	(Network Modules)	LUOZUUEING	-
4	Transition from MELSEC-AnS/QnAS (Small Type) Series to L Series Handbook	L08261ENG	_
4	(Communications)	LUOZUTENG	-
5	Transition from MELSEC-A0J2H Series to Q Series Handbook	L08060ENG	-
6	Transition from MELSECNET/MINI-S3, A2C(I/O) to CC-Link Handbook	L08061ENG	-
7	Transition from MELSEC-I/OLINK to CC-Link/LT Handbook	L08062ENG	-
8	Transition from MELSEC-I/OLINK to AnyWire DB A20 Handbook	L08263ENG	-
9	Transition of CPUs in MELSEC Redundant System Handbook (Transition from	L08117ENG	
	Q4ARCPU to QnPRHCPU)	LUGITZENG	

(3) Transition examples manual

No.	Manual name	Manual number	Model code
1	MELSEC-A/QnA (Large), AnS/QnAS (Small) Transition Examples	L08121E	-

Appendix 3.2 AnS series

No.	Manual name	Manual number	Model code
1	CC-Link System Master/Local Module Type AJ61BT11/A1SJ61BT11 User's Manual	IB-66721	13J872

Appendix 3.3 QnAS series

No	Manual name	Manual number	Model code
1	CC-Link System Master/Local Module Type AJ61QBT11/A1SJ61QBT11 User's Manual	IB-66722	13J873

Appendix 3.4 L series

No.	Manual name	Manual number	Model code
1	MELSEC-L CC-Link System Master/Local Module User's Manual	SH-080895ENG	13JZ41

WARRANTY

Please confirm the following product warranty details before using this product.

1. Gratis Warranty Term and Gratis Warranty Range

If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.

However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module.

[Gratis Warranty Term]

The gratis warranty term of the product shall be for one year after the date of purchase or delivery to a designated place. Note that after manufacture and shipment from Mitsubishi, the maximum distribution period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

[Gratis Warranty Range]

- (1) The range shall be limited to normal use within the usage state, usage methods and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product.
- (2) Even within the gratis warranty term, repairs shall be charged for in the following cases.
 - 1. Failure occurring from inappropriate storage or handling, carelessness or negligence by the user. Failure caused by the user's hardware or software design.
 - 2. Failure caused by unapproved modifications, etc., to the product by the user.
 - 3. When the Mitsubishi product is assembled into a user's device, Failure that could have been avoided if functions or structures, judged as necessary in the legal safety measures the user's device is subject to or as necessary by industry standards, had been provided.
 - 4. Failure that could have been avoided if consumable parts (battery, backlight, fuse, etc.) designated in the instruction manual had been correctly serviced or replaced.
 - 5. Failure caused by external irresistible forces such as fires or abnormal voltages, and Failure caused by force majeure such as earthquakes, lightning, wind and water damage.
 - 6. Failure caused by reasons unpredictable by scientific technology standards at time of shipment from Mitsubishi.
 - 7. Any other failure found not to be the responsibility of Mitsubishi or that admitted not to be so by the user.

2. Onerous repair term after discontinuation of production

- (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc.
- (2) Product supply (including repair parts) is not available after production is discontinued.

3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:

- (1) Damages caused by any cause found not to be the responsibility of Mitsubishi.
- (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
- (3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.
- (4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

5. Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.

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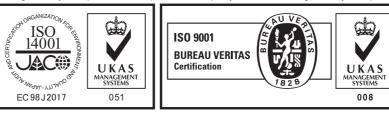
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In some cases, trademark symbols such as '™, or '®, are not specified in this manual.

Programmable Controller

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