

# Функция настройки и диагностики Серво

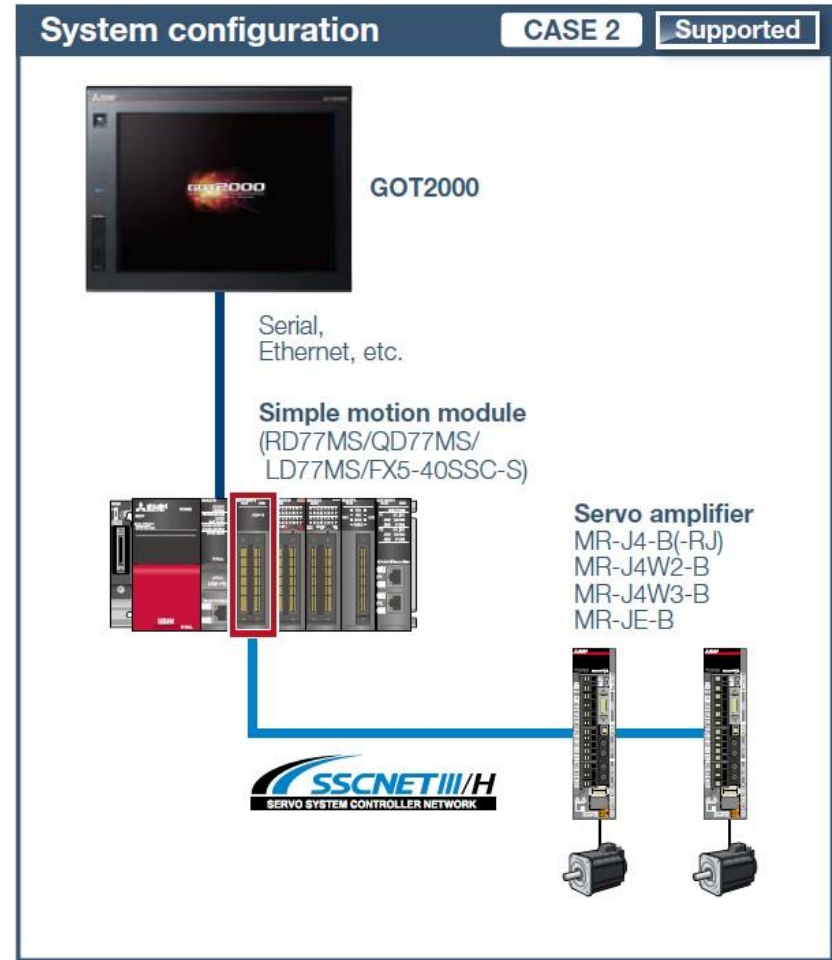
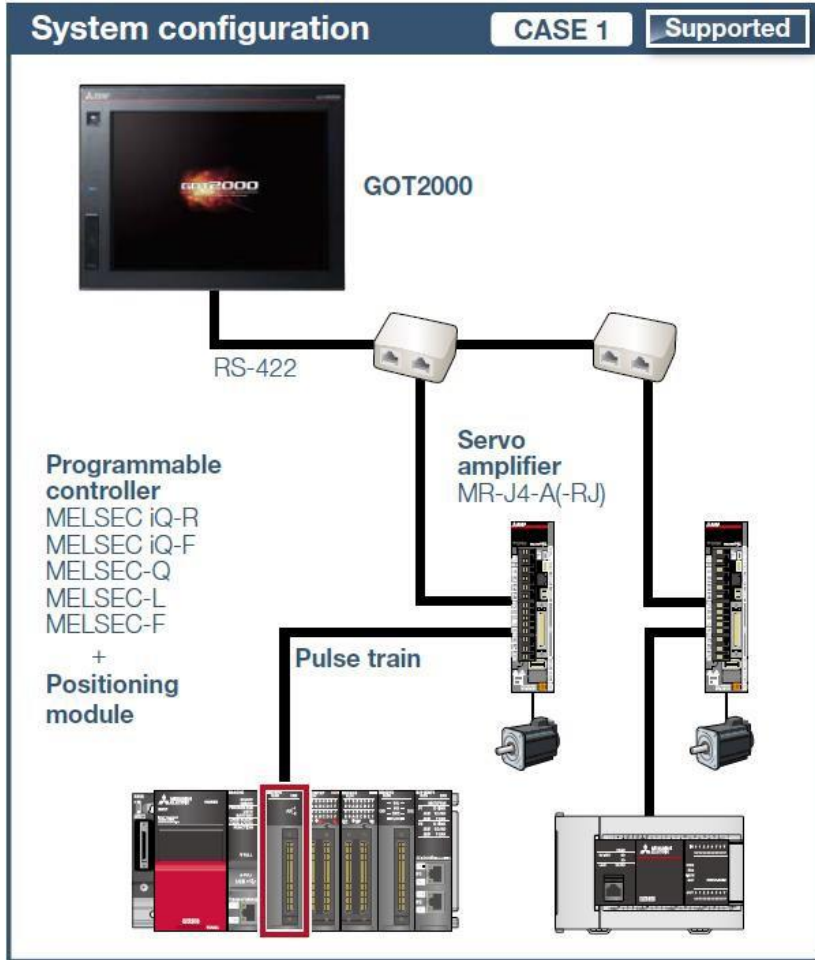


MITSUBISHI GRAPHIC OPERATION TERMINAL

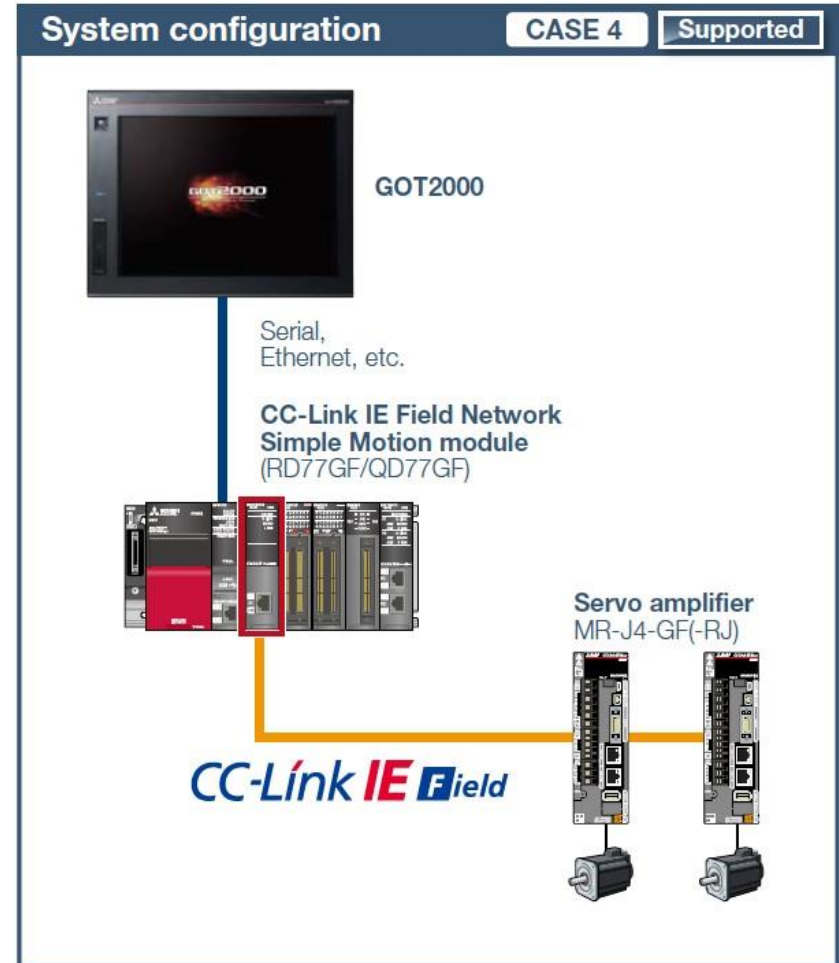
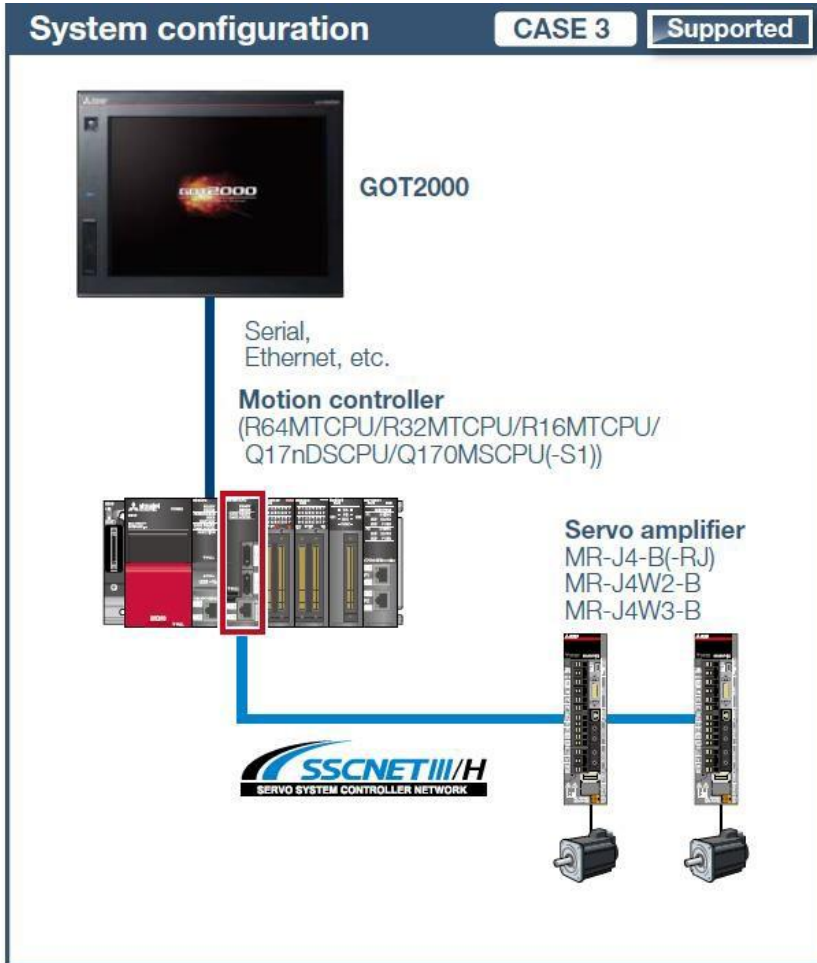
MITSUBISHI SERVO AMPLIFIERS & MOTORS

# GOT2000 x MELSERVO-J4

# Варианты подключения Серво



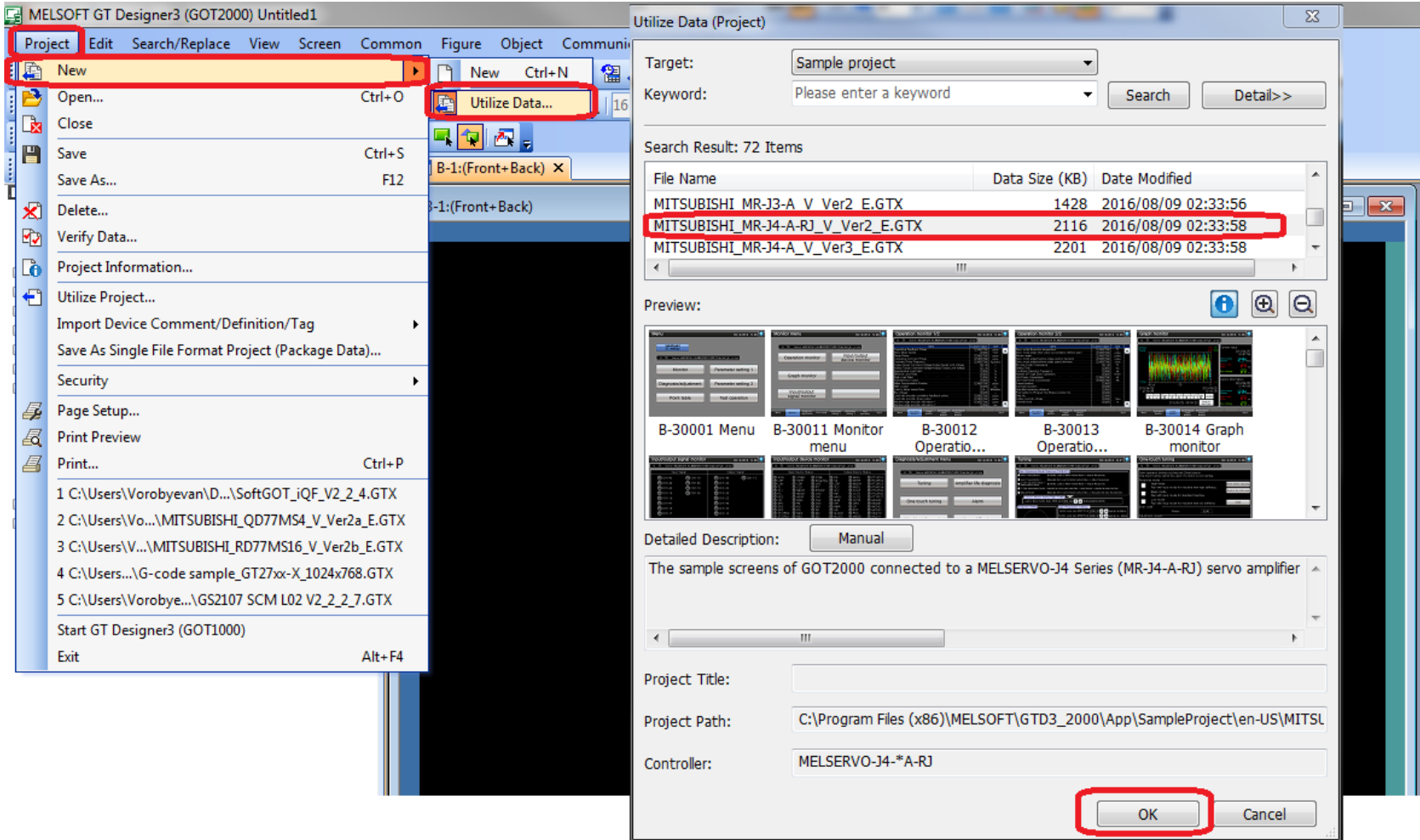
# Варианты подключения Серво



# Проект для панелей GOT



## По умолчанию присутствует в GT-Works3




The screenshot shows the MELSOFT GT Designer3 (GOT2000) interface. The 'Project' menu is open, and the 'Utilize Data...' option is highlighted. The 'Utilize Data (Project)' dialog box is displayed, showing a search for 'Sample project' with 72 items found. The search results table is as follows:

File Name	Data Size (KB)	Date Modified
MITSUBISHI_MR-J3-A_V_Ver2_E.GTX	1428	2016/08/09 02:33:56
MITSUBISHI_MR-J4-A-RJ_V_Ver2_E.GTX	2116	2016/08/09 02:33:58
MITSUBISHI_MR-J4-A_V_Ver3_E.GTX	2201	2016/08/09 02:33:58

The 'Preview' section shows thumbnails of various screens, including 'B-30001 Menu', 'B-30011 Monitor menu', 'B-30012 Operatio...', 'B-30013 Operatio...', and 'B-30014 Graph monitor'. The 'Detailed Description' section contains the text: 'The sample screens of GOT2000 connected to a MELSERVO-J4 Series (MR-J4-A-RJ) servo amplifier'. The 'Project Path' is 'C:\Program Files (x86)\MELSOFT\GTD3\_2000\App\SampleProject\en-US\MITSL' and the 'Controller' is 'MELSERVO-J4-\*A-RJ'. The 'OK' button is highlighted with a red box.

# Редактирование параметров Серво (аналог MR-Configurator 2)



**Basic Setting (ROM) 1/2** 0 / 15/20 18 17:25 

St. :56 Name: ABCDEFGHI JKLMNOPQRSTUVWXYZabcdefghijklmnopghijklmn

No.	Symbol	Name	Set Value	Unit
PA01	*STY	Operation Mode	00001234h	
PA02	*REG	Regenerative Option	00001234h	
PA03	*ABS	Absolute Position Detection System	00001234h	
PA04	*AOP1	Function Selection A-1	00001234h	
PA05	*FBP	Number of Command Input Pulses per Revolution	12345678	
PA06	CMX	Electronic Gear Numerator / Number of Gear Teeth on Machine Side	12345678	
PA07	CDV	Electronic Gear Denominator / Number of Gear Teeth on Servo Motor Side	12345678	
PA08	ATU	Auto Tuning Mode	00001234h	
PA09	RSP	Auto Tuning Response	12345678	
PA10	INP	In-position Range	12345678	
PA11	TLP	Forward Rotation Torque Limit / Positive Direction Thrust Limit	123456.0	%
PA12	TLN	Reverse Rotation Torque Limit / Negative Direction Thrust Limit	123456.0	%
PA13	*PLSS	Command Pulse Input Form	00001234h	
PA14	*POL	Rotation Direction Selection / Travel Direction Selection	12345678	
PA15	*ENR	Encoder Output Pulses	12345678	pulse/rev
PA16	*ENR2	Encoder Output Pulses 2	12345678	
PA17	*MSR	Servo Motor Series Setting	00001234h	

\*: Once data is written, the data becomes valid after turning on the amplifier power again.

Menu    Parameter Setting 2    **Basic Setting**    Gain/Filter    Extension Setting 1    I/O Setting    Extension Setting 2    Back



# Журнал аварий/ Просмотр документации (аналог MR-Configurator 2)



## Alarm display

History No.	Alarm No.	Alarm Contents	Occurrence Time(HR)	Detail Information (h)
latest	AL 20	Undervoltage	177	1
1	AL 20	Encoder Initial Com. Error 1	177	1
2	AL 10	Undervoltage	177	1
3	AL FF	No Alarms	0	0
4	AL FF	No Alarms	0	0
5	AL FF	No Alarms	0	0
6	AL FF	No Alarms	0	0
7	AL FF	No Alarms	0	0
8	AL FF	No Alarms	0	0

Нажмите для просмотра документации

## Document display \* Not supported by GT23, GT21.

No.	Name	Detail No.	Detail Name	Stop Method	Alarm Name	Location	Alarm Code
10	Undervoltage	10.1	Voltage drop in the control circuit power	STOP	Undervoltage	Control	AL 10
10	Undervoltage	10.2	Voltage drop in the main circuit power	STOP	Undervoltage	Main	AL 11
12	Memory error 1 (RAM)	12.1	RAM error 1	STOP	Memory error	Control	AL 12
12	Memory error 1 (RAM)	12.2	RAM error 2	STOP	Memory error	Control	AL 13
12	Memory error 1 (RAM)	12.3	RAM error 3	STOP	Memory error	Control	AL 14
12	Memory error 1 (RAM)	12.4	RAM error 4	STOP	Memory error	Control	AL 15
12	Memory error 1 (RAM)	12.5	RAM error 5	STOP	Memory error	Control	AL 16
12	Memory error 1 (RAM)	12.6	RAM error 6	STOP	Memory error	Control	AL 17
12	Memory error 1 (RAM)	12.7	RAM error 7	STOP	Memory error	Control	AL 18
12	Memory error 1 (RAM)	12.8	RAM error 8	STOP	Memory error	Control	AL 19
12	Memory error 1 (RAM)	12.9	RAM error 9	STOP	Memory error	Control	AL 20
12	Memory error 1 (RAM)	12.10	RAM error 10	STOP	Memory error	Control	AL 21
12	Memory error 1 (RAM)	12.11	RAM error 11	STOP	Memory error	Control	AL 22
12	Memory error 1 (RAM)	12.12	RAM error 12	STOP	Memory error	Control	AL 23
12	Memory error 1 (RAM)	12.13	RAM error 13	STOP	Memory error	Control	AL 24
12	Memory error 1 (RAM)	12.14	RAM error 14	STOP	Memory error	Control	AL 25
12	Memory error 1 (RAM)	12.15	RAM error 15	STOP	Memory error	Control	AL 26
12	Memory error 1 (RAM)	12.16	RAM error 16	STOP	Memory error	Control	AL 27
12	Memory error 1 (RAM)	12.17	RAM error 17	STOP	Memory error	Control	AL 28
12	Memory error 1 (RAM)	12.18	RAM error 18	STOP	Memory error	Control	AL 29
12	Memory error 1 (RAM)	12.19	RAM error 19	STOP	Memory error	Control	AL 30
12	Memory error 1 (RAM)	12.20	RAM error 20	STOP	Memory error	Control	AL 31
12	Memory error 1 (RAM)	12.21	RAM error 21	STOP	Memory error	Control	AL 32
12	Memory error 1 (RAM)	12.22	RAM error 22	STOP	Memory error	Control	AL 33
12	Memory error 1 (RAM)	12.23	RAM error 23	STOP	Memory error	Control	AL 34
12	Memory error 1 (RAM)	12.24	RAM error 24	STOP	Memory error	Control	AL 35
12	Memory error 1 (RAM)	12.25	RAM error 25	STOP	Memory error	Control	AL 36
12	Memory error 1 (RAM)	12.26	RAM error 26	STOP	Memory error	Control	AL 37
12	Memory error 1 (RAM)	12.27	RAM error 27	STOP	Memory error	Control	AL 38
12	Memory error 1 (RAM)	12.28	RAM error 28	STOP	Memory error	Control	AL 39
12	Memory error 1 (RAM)	12.29	RAM error 29	STOP	Memory error	Control	AL 40
12	Memory error 1 (RAM)	12.30	RAM error 30	STOP	Memory error	Control	AL 41
12	Memory error 1 (RAM)	12.31	RAM error 31	STOP	Memory error	Control	AL 42
12	Memory error 1 (RAM)	12.32	RAM error 32	STOP	Memory error	Control	AL 43
12	Memory error 1 (RAM)	12.33	RAM error 33	STOP	Memory error	Control	AL 44
12	Memory error 1 (RAM)	12.34	RAM error 34	STOP	Memory error	Control	AL 45
12	Memory error 1 (RAM)	12.35	RAM error 35	STOP	Memory error	Control	AL 46
12	Memory error 1 (RAM)	12.36	RAM error 36	STOP	Memory error	Control	AL 47
12	Memory error 1 (RAM)	12.37	RAM error 37	STOP	Memory error	Control	AL 48
12	Memory error 1 (RAM)	12.38	RAM error 38	STOP	Memory error	Control	AL 49
12	Memory error 1 (RAM)	12.39	RAM error 39	STOP	Memory error	Control	AL 50
12	Memory error 1 (RAM)	12.40	RAM error 40	STOP	Memory error	Control	AL 51
12	Memory error 1 (RAM)	12.41	RAM error 41	STOP	Memory error	Control	AL 52
12	Memory error 1 (RAM)	12.42	RAM error 42	STOP	Memory error	Control	AL 53
12	Memory error 1 (RAM)	12.43	RAM error 43	STOP	Memory error	Control	AL 54
12	Memory error 1 (RAM)	12.44	RAM error 44	STOP	Memory error	Control	AL 55
12	Memory error 1 (RAM)	12.45	RAM error 45	STOP	Memory error	Control	AL 56
12	Memory error 1 (RAM)	12.46	RAM error 46	STOP	Memory error	Control	AL 57
12	Memory error 1 (RAM)	12.47	RAM error 47	STOP	Memory error	Control	AL 58
12	Memory error 1 (RAM)	12.48	RAM error 48	STOP	Memory error	Control	AL 59
12	Memory error 1 (RAM)	12.49	RAM error 49	STOP	Memory error	Control	AL 60
12	Memory error 1 (RAM)	12.50	RAM error 50	STOP	Memory error	Control	AL 61
12	Memory error 1 (RAM)	12.51	RAM error 51	STOP	Memory error	Control	AL 62
12	Memory error 1 (RAM)	12.52	RAM error 52	STOP	Memory error	Control	AL 63
12	Memory error 1 (RAM)	12.53	RAM error 53	STOP	Memory error	Control	AL 64
12	Memory error 1 (RAM)	12.54	RAM error 54	STOP	Memory error	Control	AL 65
12	Memory error 1 (RAM)	12.55	RAM error 55	STOP	Memory error	Control	AL 66
12	Memory error 1 (RAM)	12.56	RAM error 56	STOP	Memory error	Control	AL 67
12	Memory error 1 (RAM)	12.57	RAM error 57	STOP	Memory error	Control	AL 68
12	Memory error 1 (RAM)	12.58	RAM error 58	STOP	Memory error	Control	AL 69
12	Memory error 1 (RAM)	12.59	RAM error 59	STOP	Memory error	Control	AL 70
12	Memory error 1 (RAM)	12.60	RAM error 60	STOP	Memory error	Control	AL 71
12	Memory error 1 (RAM)	12.61	RAM error 61	STOP	Memory error	Control	AL 72
12	Memory error 1 (RAM)	12.62	RAM error 62	STOP	Memory error	Control	AL 73
12	Memory error 1 (RAM)	12.63	RAM error 63	STOP	Memory error	Control	AL 74
12	Memory error 1 (RAM)	12.64	RAM error 64	STOP	Memory error	Control	AL 75
12	Memory error 1 (RAM)	12.65	RAM error 65	STOP	Memory error	Control	AL 76
12	Memory error 1 (RAM)	12.66	RAM error 66	STOP	Memory error	Control	AL 77
12	Memory error 1 (RAM)	12.67	RAM error 67	STOP	Memory error	Control	AL 78
12	Memory error 1 (RAM)	12.68	RAM error 68	STOP	Memory error	Control	AL 79
12	Memory error 1 (RAM)	12.69	RAM error 69	STOP	Memory error	Control	AL 80
12	Memory error 1 (RAM)	12.70	RAM error 70	STOP	Memory error	Control	AL 81
12	Memory error 1 (RAM)	12.71	RAM error 71	STOP	Memory error	Control	AL 82
12	Memory error 1 (RAM)	12.72	RAM error 72	STOP	Memory error	Control	AL 83
12	Memory error 1 (RAM)	12.73	RAM error 73	STOP	Memory error	Control	AL 84
12	Memory error 1 (RAM)	12.74	RAM error 74	STOP	Memory error	Control	AL 85
12	Memory error 1 (RAM)	12.75	RAM error 75	STOP	Memory error	Control	AL 86
12	Memory error 1 (RAM)	12.76	RAM error 76	STOP	Memory error	Control	AL 87
12	Memory error 1 (RAM)	12.77	RAM error 77	STOP	Memory error	Control	AL 88
12	Memory error 1 (RAM)	12.78	RAM error 78	STOP	Memory error	Control	AL 89
12	Memory error 1 (RAM)	12.79	RAM error 79	STOP	Memory error	Control	AL 90
12	Memory error 1 (RAM)	12.80	RAM error 80	STOP	Memory error	Control	AL 91
12	Memory error 1 (RAM)	12.81	RAM error 81	STOP	Memory error	Control	AL 92
12	Memory error 1 (RAM)	12.82	RAM error 82	STOP	Memory error	Control	AL 93
12	Memory error 1 (RAM)	12.83	RAM error 83	STOP	Memory error	Control	AL 94
12	Memory error 1 (RAM)	12.84	RAM error 84	STOP	Memory error	Control	AL 95
12	Memory error 1 (RAM)	12.85	RAM error 85	STOP	Memory error	Control	AL 96
12	Memory error 1 (RAM)	12.86	RAM error 86	STOP	Memory error	Control	AL 97
12	Memory error 1 (RAM)	12.87	RAM error 87	STOP	Memory error	Control	AL 98
12	Memory error 1 (RAM)	12.88	RAM error 88	STOP	Memory error	Control	AL 99
12	Memory error 1 (RAM)	12.89	RAM error 89	STOP	Memory error	Control	AL 100
12	Memory error 1 (RAM)	12.90	RAM error 90	STOP	Memory error	Control	AL 101
12	Memory error 1 (RAM)	12.91	RAM error 91	STOP	Memory error	Control	AL 102
12	Memory error 1 (RAM)	12.92	RAM error 92	STOP	Memory error	Control	AL 103
12	Memory error 1 (RAM)	12.93	RAM error 93	STOP	Memory error	Control	AL 104
12	Memory error 1 (RAM)	12.94	RAM error 94	STOP	Memory error	Control	AL 105
12	Memory error 1 (RAM)	12.95	RAM error 95	STOP	Memory error	Control	AL 106
12	Memory error 1 (RAM)	12.96	RAM error 96	STOP	Memory error	Control	AL 107
12	Memory error 1 (RAM)	12.97	RAM error 97	STOP	Memory error	Control	AL 108
12	Memory error 1 (RAM)	12.98	RAM error 98	STOP	Memory error	Control	AL 109
12	Memory error 1 (RAM)	12.99	RAM error 99	STOP	Memory error	Control	AL 110
12	Memory error 1 (RAM)	12.100	RAM error 100	STOP	Memory error	Control	AL 111

Проверьте информацию в документации \*.pdf


# Функция осциллографа (аналог MR-Configurator 2)



# Запуск Серво в режиме JOG (аналог MR-Configurator 2)



## JOG Operation

01/15/2018 17:26 

St. :56 Name:ABCDEFGHIJKLMN O PQRSTU VWXYZ abcdefghi jklmn

Item	Current Value	Unit	
Cumulative Feedback Pulses	1234567890	pulse	▲
Servo Motor Speed	123456	r/min	
Droop Pulses	1234567890	pulse	
Cumulative Command Pulses	1234567890	pulse	
Command Pulse Frequency	1234567890	kpulse/s	
Analog Speed Command Voltage/Analog Speed Limit Voltage	123.00	v	
Analog Torque Command Voltage/Analog Torque Limit Voltage	123.00	v	
Regenerative Load Ratio	123456	%	
Effective Load Ratio	123456	%	+
Peak Load Ratio	123456	%	
Instantaneous Torque	123456	%	
Within One-revolution Position	1234567890	pulse	▼
ABS Counter	123456	rev	

Start JOG operation

Motor Speed	123456
Accel./Decel. Time Constant	123456

Fwd. Rot.


Rev. Rot.

Menu
JOG Operation
Positioning Operation
Output Signal Forced Output
Single-step feed
Back



# Индикация состояния дискр. вх./выходов (аналог MR-Configurator 2)



**Input/output device monitor** 0 / 15/20 18 17:24 


St. :56 Name:ABCDEFGHIJKLMN O PQRSTU VWXYZ abcdefghi jklmn

Input Device Status			Output Device Status		
<input type="radio"/> SON	<input type="radio"/> STAB2	<input type="radio"/> STAB	<input type="radio"/> RD	<input type="radio"/> ABSV	<input type="radio"/> PT1/PS1
<input type="radio"/> LSP	<input type="radio"/> TSTP	<input type="radio"/> DOG/SIG	<input type="radio"/> SA	<input type="radio"/> MTTR	<input type="radio"/> PT2/PS2
<input type="radio"/> LSN	<input type="radio"/> CDP	<input type="radio"/> LPS	<input type="radio"/> ZSP	<input type="radio"/> MSDH	<input type="radio"/> PT3/PS3
<input type="radio"/> TL	<input type="radio"/> CLD	<input type="radio"/> RT	<input type="radio"/> TLC	<input type="radio"/> MSDL	<input type="radio"/> PT4/PS4
<input type="radio"/> TL1	<input type="radio"/> MECR	<input type="radio"/> RTCDP	<input type="radio"/> VLC	<input type="radio"/> SOUT	<input type="radio"/> PT5/PS5
<input type="radio"/> PC	<input type="radio"/> ABSM	<input type="radio"/> OV0	<input type="radio"/> INP	<input type="radio"/> OUT1	<input type="radio"/> PT6/PS6
<input type="radio"/> RES	<input type="radio"/> ABSR	<input type="radio"/> OV1	<input type="radio"/> WNG	<input type="radio"/> OUT2	<input type="radio"/> PT7/PS7
<input type="radio"/> CR	<input type="radio"/> MSD	<input type="radio"/> OV2	<input type="radio"/> ALM	<input type="radio"/> OUT3	<input type="radio"/> MCD00
<input type="radio"/> SP1	<input type="radio"/> PI1	<input type="radio"/> OV3	<input type="radio"/> OP	<input type="radio"/> CPO	<input type="radio"/> MCD01
<input type="radio"/> SP2	<input type="radio"/> PI2	<input type="radio"/> DI0	<input type="radio"/> MBR	<input type="radio"/> ZP	<input type="radio"/> MCD02
<input type="radio"/> SP3	<input type="radio"/> PI3	<input type="radio"/> DI1	<input type="radio"/> DB	<input type="radio"/> POT	<input type="radio"/> MCD03
<input type="radio"/> ST1/RS2	<input type="radio"/> MD0	<input type="radio"/> DI2	<input type="radio"/> ALCD0	<input type="radio"/> PUS	<input type="radio"/> MCD10
<input type="radio"/> ST2/RS1	<input type="radio"/> MD1	<input type="radio"/> DI3	<input type="radio"/> ALCD1	<input type="radio"/> MEND	<input type="radio"/> MCD11
<input type="radio"/> CMX1	<input type="radio"/> TCH	<input type="radio"/> DI4	<input type="radio"/> ALCD2	<input type="radio"/> PED	<input type="radio"/> MCD12
<input type="radio"/> CMX2	<input type="radio"/> TP0	<input type="radio"/> DI5	<input type="radio"/> BWNG	<input type="radio"/> ALMWNG	<input type="radio"/> MCD13
<input type="radio"/> LOP	<input type="radio"/> TP1	<input type="radio"/> DI6	<input type="radio"/> CDPS	<input type="radio"/> BW9F	
<input type="radio"/> EM2/EM1	<input type="radio"/> OVR	<input type="radio"/> DI7	<input type="radio"/> CLDS	<input type="radio"/> PT0/PS0	

Menu
Operation monitor
Graph monitor
Input/output signal monitor
Input/output device monitor
Back










# Проверка дискр. выходов (аналог MR-Configurator 2)



**Output Signal (DO) Forced Output** 01/15/2018 17:28 

St. :56 Name:ABCDEFGHIJKLMNCPQRSTUVWXYZabcdefghijklmn


Start output signal (DO) forced output

 CN1-49	 CN1-24	 CN1-23 +	 CN1-25	 CN1-22
 CN1-48	 CN1-33	 CN1-13	 CN1-14	

Menu JOG Operation Positioning Operation **Output Signal Forced Output** Single-step feed Back

# Настройка серво (аналог MR-Configurator 2)



**Tuning**
01/15/2018 17:21 

St. :56 Name:ABCDEFGHIJKLMN OPQRSTUVWXYZabcdefghijklmnopghijklmn


**Gain Adjustment Mode Selection (PA08 ATU)**

- Auto Tuning Mode 1 (Estimate Load to Motor Inertia Ratio -> Adjust Response)
- Auto Tuning Mode 2 (Manually Set Load to Motor Inertia Ratio -> Adjust Response)
- 2 Gain adjustment Mode 1 (Interpolation Mode) (Estimate Load to Motor Inertia Ratio -> Adjust Response)
- 2 Gain adjustment Mode 2 (Manually Set Load to Motor Inertia Ratio -> Adjust Response -> Manually Set Model Loop Gain)
- Manual Mode (Manually Set Load to Motor Inertia Ratio -> Manually Set Gain Parameters)

**Load to Motor Inertia Ratio Setting**

Load to Motor Inertia Ratio (PB06 GD2)  ▼ ▲ [Multiplier](0.00-300.00)

**Response Setting**



Auto Tuning Response (PA09 RSP)  (1-40)

**Gain Parameter Setting**

Model Loop Gain (PB07 PG1)  ▼ ▲ [rad/s](1.0-2000.0)

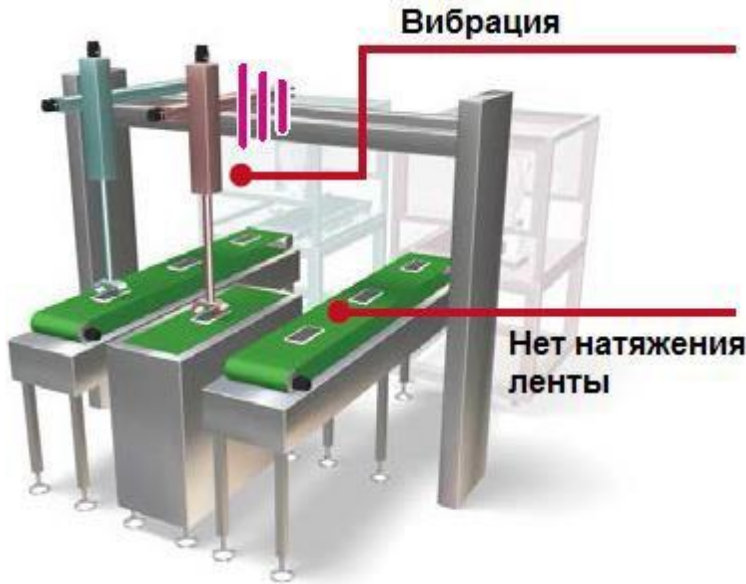
Position Loop Gain (PB08 PG2)  ▼ ▲ [rad/s](1.0~2000.0)

Speed Loop Gain (PB09 VG2)  ▼ ▲ [rad/s](20~65535)

Speed Integral Compensation (PB10 VIC)  ▼ ▲ [ms](0.1~1000.0)

Menu
Tuning
One-touch tuning
Machine diagnosis
Amplifier life diagnosis
Alarm
Manual Display
Back

# Анализ механической части машины (аналог MR-Configurator 2)



## Machine diagnosis

01/15/2018 17:22

St. :56 Name:ABCDEFGHIJKLMN O PQRSTU VWXYZ abcdefghi jklm n

**Estimated friction value**  
Detect the estimated coulomb friction (including gravity and etc.) and viscous friction coefficient of guides or ball screws according to the operation patterns.

Positive friction torque against the servo motor rated value <input style="width: 100px;" type="text" value="3456.0"/> % Positive torque coulomb friction <input style="width: 100px;" type="text" value="3456.0"/> % Rated speed <input style="width: 100px;" type="text" value="123456"/> r/min	<div style="text-align: center;"> </div> Negative torque coulomb friction <input style="width: 100px;" type="text" value="3456.0"/> % Negative friction torque against the servo motor rated value <input style="width: 100px;" type="text" value="3456.0"/> %
---	---

**Estimated vibration value**  
Detect high frequency minute vibrations due to backlash or aged deterioration of guides, ball screws, belts.


Motor running Oscillating frequency <input style="width: 100px;" type="text" value="123456"/> Hz Vibration level <input style="width: 100px;" type="text" value="3456.0"/> %	Motor suspended Oscillating frequency <input style="width: 100px;" type="text" value="123456"/> Hz Vibration level <input style="width: 100px;" type="text" value="3456.0"/> %
--	--

Menu
Tuning
One-touch tuning
Machine diagnosis
Amplifier life diagnosis
Alarm
Manual Display
Back

# Фильтры подавления резонансных частот GOT Drive

## (аналог MR-Configurator 2)

### Filter Setting 1/2

0 / 15/20 18 17:45 

Tuning
Filter Setting
Vib. Supp. Ctrl

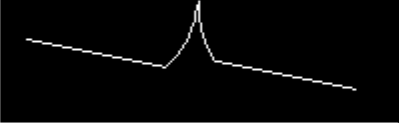
Machine resonance suppression filter

**Filter 1 (Adaptive tuning)**  
(PB01 FILT)

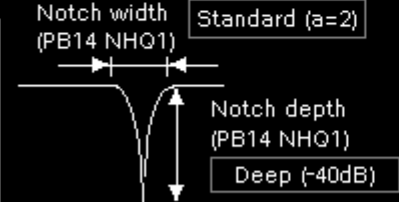
No Setting    Tuning

Manual Setting

Notch frequency (PB13 NH1) 3456 Hz (10-4500)



Notch width (PB14 NHQ1) Standard (a=2)



Notch depth (PB14 NHQ1) Deep (-40dB)

Frequency

Filter 2 (PB16 NHQ2)	Filter 3 (PB47 NHQ3)	Filter 4 (PB49 NHQ4)	Filter 5 (PB51 NHQ5)
Disabled	Disabled	Disabled	Disabled
Notch frequency (PB15 NH2) <span style="border: 1px solid black; padding: 2px 10px;">123456</span> Hz (10-4500)	Notch frequency (PB46 NH3) <span style="border: 1px solid black; padding: 2px 10px;">123456</span> Hz (10-4500)	Notch frequency (PB48 NH4) <span style="border: 1px solid black; padding: 2px 10px;">123456</span> Hz (10-4500)	Notch frequency (PB50 NH5) <span style="border: 1px solid black; padding: 2px 10px;">123456</span> Hz (10-4500)
Notch width (PB16 NHQ2) <span style="border: 1px solid black; padding: 2px 10px;">Standard (a=2)</span>	Notch width (PB47 NHQ3) <span style="border: 1px solid black; padding: 2px 10px;">Standard (a=2)</span>	Notch width (PB49 NHQ4) <span style="border: 1px solid black; padding: 2px 10px;">Standard (a=2)</span>	Notch width (PB51 NHQ5) <span style="border: 1px solid black; padding: 2px 10px;">Standard (a=2)</span>
Notch depth (PB16 NHQ2) <span style="border: 1px solid black; padding: 2px 10px;">Deep (-40dB)</span>	Notch depth (PB47 NHQ3) <span style="border: 1px solid black; padding: 2px 10px;">Deep (-40dB)</span>	Notch depth (PB49 NHQ4) <span style="border: 1px solid black; padding: 2px 10px;">Deep (-40dB)</span>	Notch depth (PB51 NHQ5) <span style="border: 1px solid black; padding: 2px 10px;">Deep (-40dB)</span>

Other filter


Menu
Tuning
One-touch Tuning
Machine Diagnosis
Amplifier Life Diagnosis
Alarm
Drive Recorder
Back



# Фильтры подавления вибрации (аналог MR-Configurator 2)



## Vibration Suppression Control Setting

01/15/2018 17:46 

Tuning | Filter Setting | Vib. Supp. Ctrl

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Advanced vibration suppression control

Vibration suppression control mode selection (PA24 AOP4) Standard mode 3 inertia mode Low response mode

Vibration suppression control 1

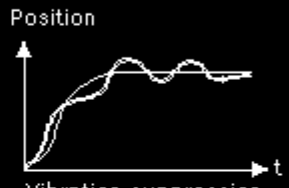
Control setting 1 (PB02 VRFT) No Setting Tuning Manual Setting

Vibration frequency (PB19 VRF11)	2345.6	▼ ▲	[Hz] (0.1-300.0)
Resonance frequency (PB20 VRF12)	2345.6	▼ ▲	[Hz] (0.1-300.0)
Vib. freq. damping setting (PB21 VRF13)	123.45	▼ ▲	(0.00-0.30)
Res. freq. damping setting (PB22 VRF14)	123.45	▼ ▲	(0.00-0.30)

Vibration suppression control 2

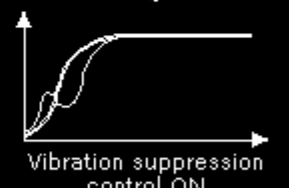
Control setting 2 (PB02 VRFT) No Setting Tuning Manual Setting

Vibration frequency (PB52 VRF21)	2345.6	▼ ▲	[Hz] (0.1-300.0)
Resonance frequency (PB53 VRF22)	2345.6	▼ ▲	[Hz] (0.1-300.0)
Vib. freq. damping setting (PB54 VRF23)	123.45	▼ ▲	(0.00-0.30)
Res. freq. damping setting (PB55 VRF24)	123.45	▼ ▲	(0.00-0.30)



Vibration suppression control OFF  
(Normal control)

▼



Vibration suppression control ON


— Motor side  
— Load side

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# Индикация времени работы Серво (аналог MR-Configurator 2)



## Amplifier life diagnosis

01/15/2018 17:36 

St. :56 Name:ABCDEFGHIJKLMNCPQRSTUVWXYZabcdefghijklm


Display the total time when the power is on after shipping from our company.

Cumulative energization time	Estimated life (smoothing capacitor)
<input type="text" value="123456"/> h	Approximately <input type="text" value="10"/> Year
$\approx$ <input type="text" value="123456.00"/> Year	Estimated life (cooling fan)
	Approximately <input type="text" value="10000-30000"/> h

+

The number of on/off times of the inrush relay after shipping from our company.

The number of on/off times of the inrush relay	Estimated life
<input type="text" value="123456"/> Number of times	Approximately <input type="text" value="100000"/> Number of times




Displayed lives are only indications.  
Actual replacement times differ according to use or environment.  
If you find any abnormality, replacing is needed.

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# Индикация потребления электричества (аналог MR-Configurator 2)



Operation Monitor 2/2 01/15/2018 17:48 

Item	Current Value	Unit	
Oscillation Detection Frequency	123456	Hz	▲
Number of Tough Drive Operations	123456	times	
Unit Power Consumption	1234567890	W	
Unit Total Power Consumption	1234567890	Wh	
+			
▼			

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**СПАСИБО!**