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OMRON

USER'S MANUAL



SMARTSTEP Junior MODELS R7M-Z (Servomotors)

R7D-ZP (Servomotors) R7D-ZP (Servo Drivers)

69109

SMARTSTEP Junior Supplemental Information On Wiring

OMRON Corporation

Cat. No. I553-E1-01

Thank you for your continued support of OMRON products.

The information provided in this document is being provided to supplement the information on wiring via a XW2B-series Terminal Block Conversion Unit when connecting a SMARTSTEP Junior Servo Driver to a Controller. The original information is insufficient, so please use this document along with the manual.

Using a Terminal Block Conversion Unit

A Terminal Block Conversion Unit can be used when connecting to a general-purpose Controller. This document describes the Unit models and provides cable specifications and wiring examples.



• Conversion Unit Models

Any of the following three models of 20-pole Conversion Units can be used as required by the application.



Cable Specifications

Use one of the following cables to connect the Connector Terminal Block Unit to the control I/O connector (CN1) on the Servo Driver.

Model	Length (L)	Outer diameter of sheath	Weight
XW2Z-100J-B19	1 m	8 dia.	Approx. 0.1 kg
XW2Z-200J-B19	2 m		Approx. 0.2 kg



• Servo Driver Wiring

Terminal block

Connector

The following diagram shows the correspondences between signal names and terminal numbers.

		_		_					
Symbol	No.		No.				No.	Wire/mark colors	Symbol
+24VIN	1		1	┣───•			 5	Blue/Red(-)	+24VIN
	2		2						
+24VIN	3		3	┝──┥					
	4		4	└─┥ │					
+24VIN	5		5						
	6		6						
+CW/PULS	7		7			~	 1	Pink/Red(-)	+CW/PULS
-CW/PULS	8		8		X	_X	 2	Pink/Black (-)	-CW/PULS
+CCW/SIGN	9		9		-\	~/	 3	Green/Red (-)	+CCW/SIGN
-CCW/SIGN	10		10		_X	_X	 4	Green/Black (-)	-CCW/SIGN
+ECRST	11		11		-\	~/	 8	Orange/Red (-)	+ECRST
-ECRST	12		12		<u> </u>	_X	9	Orange/Black (-)	-ECRST
Z	13		13			~/	 10	Gray/Red (-)	Z
ZCOM	14		14		<u> </u>	_X	 11	Gray/Black(-)	ZCOM
RUN	15		15		╄,──	~/	 6	Blue/Red ()	RUN
0GND	16		16		<u> </u>	_X	 7	Blue/Black ()	0GND
BKIR	17		17		<u> </u>	~/	13	Pink/Red()	BKIR
INP	18		18		ļX	_X	 14	Pink/Black()	INP
ALM	19		19				12	Green/Red ()	ALM
Shield	20		20		•		Shell	Shield	FG

Connector at Terminal Block Conversion Unit Cable Connector Socket: X4GM-2030 Strain Relief: XG4T-5004

AWG28 × 10P, UL 20276

Servo Driver

Servo Driver Connector Connector plug: 10114-3000PE (Sumitomo 3M) Connector case: 10314-52A0-008 (Sumitomo 3M)

• Controller Wiring (XW2B-20G4/20G5 and XW2D-20G6)

• Using Line-driver Position Command Pulse and Deviation Counter Reset Inputs



• Using Open-collector Position Command Pulse and Deviation Counter Reset Inputs



• Wiring to a CP1H-series Controller

Connecting to the SYSMAC CP1H-X20DT-D



Connecting to the SYSMAC CP1H-Y20DT-D



Servo Driver

Using Servo Relay Units

A Servo Relay Unit can be used when connecting to the Controllers listed in the following table. Refer to this table to select the Controller Cable. If there is more than one terminal block plate (the nameplate with the signal names) provided with the Servo Relay Unit, use the one for SMARTSTEP and wire the terminals correctly.

Controller	Cable connecting to the	Servo Relay Unit	Cable connecting to the
C200H-NC112	XW27-DDDJ-A4	XW2B-20J6-1B	XW27-DDJJ-B17
C200HW-NC113	XW2Z-00J-A8		
CS1W-NC113			
CS1W-NC133	XW2Z-00J-A12		
CJ1W-NC113	XW2Z-DDJ-A16		
CJ1W-NC133	XW2Z-DDJ-A20		
3F88M-DRT141	XW2Z-□□□J-A25		
C200H-NC211	XW2Z-🗆 J-A5	XW2B-40J6-2B	
C200HW-NC213/413	XW2Z-□□□J-A9		
CS1W-NC213/413			
CS1W-NC233/433	XW2Z-□□□J-A13		
CJ1W-NC213/413	XW2Z-□□□J-A17		
CJ1W-NC233/433	XW2Z-□□□J-A21		
CQM1-CPU43-V1	XW2Z-□□□J-A3	XW2B-20J6-3B	
CQM1H-PLB21			
CJIM-CPU21	XW2Z-□□□J-A26	XW2B-20J6-8A	
CJIM-CPU22			
CJIM-CPU23		XW2B-40J6-9A	
		(for 2-axis connection)	

Thank you for choosing this SMARTSTEP Junior product.

This manual provides information on installation, wiring, and switch setting for the SMARTSTEP Junior Servomotors and Servo Drivers. For information about troubleshooting, refer to the *SMARTSTEP Junior User's Manual* (Cat. No. 1553).

Intended Audiences

This manual is intended for the following personnel, who must also have knowledge of electrical systems (an electrical engineer or the equivalent).

- Personnel in charge of installing FA systems
- Personnel in charge of designing FA systems
- · Personnel in charge of managing FA systems and facilities

■ NOTICE

This manual contains information necessary for the operation of the SMARTSTEP Junior Servomotors and Servo Drivers. Please read this manual thoroughly and understand its contents before attempting to operate the product. Please keep this manual handy for future reference after reading it.

Be sure that this manual accompanies the product to its final user.

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Read and Understand this Manual

Please read and understand this manual before using the product. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this manual.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this manual is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this manual has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

General Warnings

To ensure safe and proper use of SMARTSTEP Junior Servomotors and Servo Drivers, read the general warnings provided below along with the rest of this manual to gain sufficient knowledge of the devices, safety information, and precautions before actual use.

This OPERATION MANUAL is to be delivered to the actual end users of the products.

Please keep this manual close at hand for future reference.

The following conventions are used to indicate and classify precautions in this manual. Always heed the information provided with them. Failure to heed precautions can result in injury to people or damage to property.

	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. Additionally, there may be severe property damage.
A Caution	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.

General Warnings

- This manual may include illustrations of the product with protective covers or shields removed in order to describe the components of the product in detail. Make sure that these protective covers and shields are on the product before use.
- Consult your OMRON representative when using the product after a long period of storage.

MARNING WARNING
Always connect the frame ground terminals of the Servo Driver and the Servomotor to a class-3 ground (to 100 Ω or less). Not connecting to a class-3 ground may result in electric shock.
Do not touch the inside of the Servo Driver. Doing so may result in electric shock.
Do not remove the front cover, terminal covers, cables, or optional items while the power is being supplied. Doing so may result in electric shock.
Installation, operation, maintenance, or inspection must be performed by authorized personnel. Not doing so may result in electric shock or injury.
Wiring or inspection must not be performed for at least five minutes after turning OFF the power supply. Doing so may result in electric shock.
Do not damage, press, or put excessive stress or heavy objects on the cables. Doing so may result in electric shock.
Do not touch the rotating parts of the Servomotor in operation. Doing so may result in injury.
Do not modify the product. Doing so may result in injury or damage to the product.
Provide a stopping mechanism on the machine to ensure safety. The holding brake is not designed as a stopping mechanism for safety purposes.
Provide an external emergency stopping mechanism that can stop operation and shutting off the power supply immediately. Not doing so may result in injury.
Do not come close to the machine immediately after resetting momentary power interruption to avoid an unexpected restart. (Take appropriate measures to secure safety against an unexpected restart.) Doing so may result in injury.

	A CAUTION
A Caution	Use the Servomotors and Servo Drivers in a specified combination. Using them incorrectly may result in fire or damage to the products.
A Caution	 Do not store or install the product in the following places. Doing so may result in fire, electric shock, or damage to the product Locations subject to direct sunlight. Locations subject to temperatures or humidity outside the range specified in the specifications. Locations subject to condensation as the result of severe changes in temperature. Locations subject to dust (especially iron dust) or salts. Locations subject to shock or vibration. Locations subject to exposure to water, oil, or chemicals. Do not touch the Servo Driver radiator, Servo Driver regeneration resistor, or Servomotor while the power is being supplied or soon after the power is turned OFF. Doing so may result in a skin burn due to the hot surface.

Storage and Transportation Precautions



Installation and Wiring Precautions

A Caution	Do not step on or place a heavy object on the product. Doing so may result in injury.
A Caution	Do not cover the inlet or outlet ports and prevent any foreign objects from entering the product. Doing so may result in fire.
A Caution	Be sure to install the product in the correct direction. Not doing so may result in malfunction.
A Caution	Provide the specified clearances between the Servo Driver and the control panel or with other devices. Not doing so may result in fire or malfunction.
A Caution	Do not apply any strong impact. Doing so may result in malfunction.
A Caution	Be sure to wire correctly and securely. Not doing so may result in motor runaway, injury, or malfunction.
A Caution	Be sure that all the mounting screws, terminal screws, and cable connector screws are tightened to the torque specified in the relevant manuals. Incorrect tightening torque may result in malfunction.
A Caution	Use crimp terminals for wiring. Do not connect bare stranded wires directly to terminals. Connection of bare stranded wires may result in burning.
A Caution	Always use the power supply voltage specified in the User's Manual. An incorrect voltage may result in malfunction or burning.
A Caution	Take appropriate measures to ensure that the specified power with the rated voltage and frequency is supplied. Be particularly careful in places where the power supply is unstable. An incorrect power supply may result in malfunction.
A Caution	Install external breakers and take other safety measures against short-circuiting in external wiring. Insufficient safety measures against short-circuiting may result in burning.
A Caution	Take appropriate and sufficient countermeasures when installing systems in the following locations. Failure to do so may result in damage to the product.
	Locations subject to static electricity or other forms of noise.
	 Locations subject to strong electromagnetic fields and magnetic fields. Locations subject to possible exposure to radioactivity.
	 Locations close to power supplies.

Operation and Adjustment Precautions

A Caution	Confirm that no adverse effects will occur in the system before performing the test operation. Not doing so may result in equipment damage.
A Caution	Check the newly set parameters and switches for proper execution before actually running them. Not doing so may result in equipment damage.
Caution	Do not make any extreme adjustments or setting changes. Doing so may result in unstable operation and injury.
A Caution	Separate the Servomotor from the machine, check for proper operation, and then connect to the machine. Not doing so may cause injury.
Caution	When an alarm occurs, remove the cause, reset the alarm after confirming safety, and then resume operation. Not doing so may result in injury.
Caution	Do not use the built-in brake of the Servomotor for ordinary braking. Doing so may result in malfunction.
A Caution	Do not operate the Servomotor connected to a load that exceeds the applicable load moment of inertia. Doing so may result in malfunction.

Maintenance and Inspection Precautions



General Warnings

Warning Labels

Warning labels are pasted on the product as shown in the following illustration. Be sure to follow the instructions given there.



Example from R7D-ZP01H

Warning Label Contents



Items to Check When Unpacking

Item	Method
Has the correct product been delivered?	Check the model number on the nameplate on the side of the product.
Has the product been damaged in shipping?	Inspect the outside of the product and carefully check that there has been no damage during shipping.

Check the following items after removing the product from the package.

• Accessories

1. Special screw driver for setting the rotary switch \times 1

NAME

2. Safety Precautions document $\times\,1$

No connectors or mounting screws are provided. Obtain these separately. If something is missing, the Servo Driver is damaged, or some other fault exists, please contact the point of purchase or your OMRON representative.

• Interpreting the Model Number

The model number provides information such as the Servo Driver type, the applicable Servomotor capacity, and the power supply voltage.

	<u>R7D-ZP01</u> F
SMARTSTEP Junior ————————————————————————————————————	
Driver Type P: Pulse string input	
Applicable Servomotor Capacity 01: 100 W 02: 200 W 04: 400 W 08: 750 W	
Power Supply Voltage	

H: 200 VAC

• Servo Driver and Servomotor Combinations

Rated output	Serve	Servo Driver	
	Without brake	With brake	Pulse string input
100 W	R7M-Z10030-S1	R7M-Z10030-B S1	R7D-ZP01H
200 W	R7M-Z20030-S1	R7M-Z20030-B S1	R7D-ZP02H
400 W	R7M-Z40030-S1	R7M-Z40030-B S1	R7D-ZP04H
750 W	R7M-Z75030-S1	R7M-Z75030-B S1	R7D-ZP08H

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Section 1

Features and System Configuration

1-1-1 Introduction

1-1 Introduction

1-1-1 Introduction

The SMARTSTEP Junior is a Servo Driver with a pulse-string input for position control. The SMARTSTEP Junior is easy to set up and start because it does not require the complex parameter settings and Servo adjustments normally associated with Servos. The SMARTSTEP Junior Servomotor and Servo Driver are easy-to-use, yet provide the responsiveness, high-speed, high-torque, and precision of traditional Servo systems. This manual describes the SMARTSTEP Junior as a pulse-string input Servo Driver for position control.

1-1-2 SMARTSTEP Junior Features

The SMARTSTEP Junior has the following features.

No Setup Parameters

No parameter settings are required for setup, so you can start using the Servo Driver immediately simply by removing it from the box and wiring it. If it is necessary to set the positioning resolution or reference pulse method, these settings can be set or changed easily with the rotary switches on the front of the Servo Driver.

■ No Servo Adjustments Required

With the newest auto-tuning function, it isn't necessary to adjust the Servo Driver to achieve excellent responsiveness. Auto-tuning achieves excellent responsiveness while providing compatibility with a range of stepping motors. A Servomotor with moderate inertia is used to improve control system stability.

1-2 System Configuration



1-3 Nomenclature and Functions

1-3-1 Servo Driver Nomenclature and Functions

1-3 Nomenclature and Functions

1-3-1 Servo Driver Nomenclature and Functions



■ Rotary Switch for Setting Command Pulse (PULSE)

Always turn OFF the power supply before setting the rotary switch. (The switch is factory-set to 0.)

Setting	Command pulse resolution	Command pulse connection method	Command pulse type
0	1000	Open collector or line driver	CW+CCW, positive logic
1	2500		см ПП
2	5000	Line driver	
3	10000		ccw
4	1000	Open collector or line driver	CW+CCW, negative logic
5	2500		сwП
6	5000	Line driver	
7	10000		ccw
8	1000	Open collector or line driver	Sign + pulse string, positive
9	2500		
Α	5000	Line driver	
В	10000		SIGN
С	1000	Open collector or line driver	Sign + pulse string, negative
D	2500		
E	5000	Line driver	
F	10000		SIGN