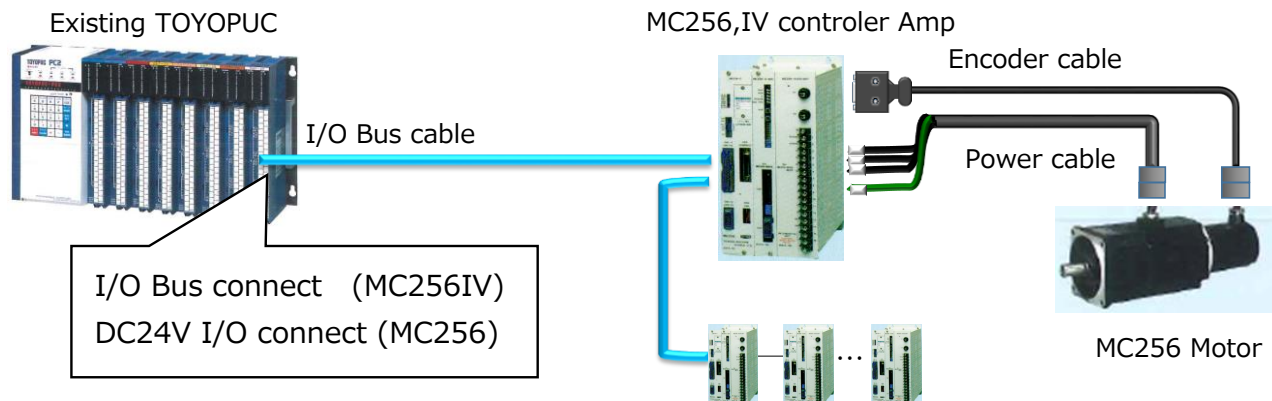
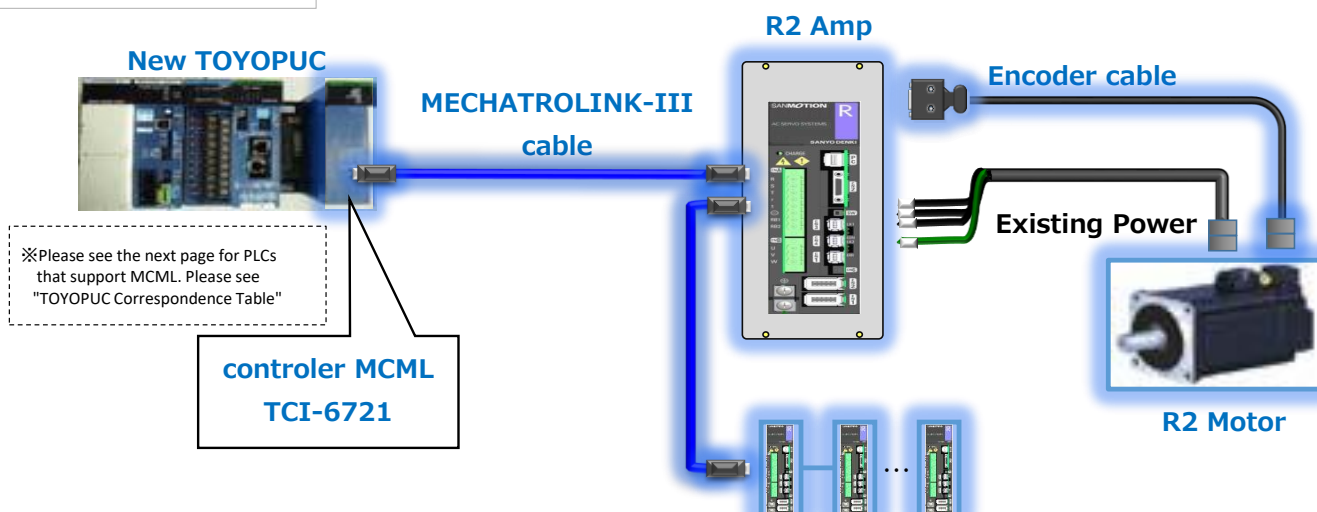


Recipe of Motion Replacement MC256,IV

BEFORE



AFTER R2 Motor



Replacement confirmation table

BEFORE	AFTER		
Motor	R2 Motor	Compatible amplifier	Amp Mounting compatibility
MC256-M003**	R2AA06010F□RM□	RS2A01A3MA5J00	Small Bracket
MC256-M007**	R2AA06020F□RM□	RS2A03A3MA5J00	
MC256-M014**			
MC256-M020**	R2AB8075F□RM□	RS2A05A3MA5J00	Small Bracket
MC256-M030**			
MC256-M035**	R2AA13120L□R94M		
MC256-M065**			
MC256-M090**	R2AA13180H□R94M	RS2A10A3MA5J00	Large Bracket
MC256-M140**			
MC256-M220**	R2AA18350L□R94M		

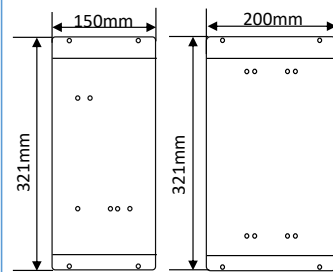
For the ** at the end of the motor model,
Please see "MC256 Motor Specifications" on the next page.

For the □ at the motor model,
Please see "R2 Motor Specifications" on the next page.

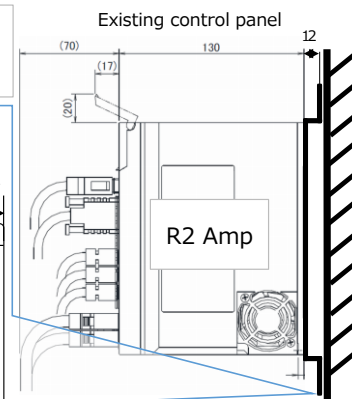
※Use the mounting bracket to reuse the old amplifier mounting screw hole.

Amplifier mounting bracket

Small Bracket Large Bracket
BRK-R201-MC256S BRK-R201-MC256L



※The amplifier mounting bracket is for rear mounting.
Please consult us if you are mounting front.



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,R2 Series Servo System (T-780E) for final equipment selection.

* Please register your name, company name and e-mail address when using the instruction manual.
After that, we will send the password for downloading the instruction manual to the registered e-mail address.

T-768E <https://toyoda.iitekt.co.jp/e/authdata.php?path=Mc/Torisetu/t-768e.pdf>

T-765E <https://toyoda.iitekt.co.jp/e/authdata.php?path=Mc/Torisetu/t-765e.pdf>

T-780E <https://toyoda.iitekt.co.jp/e/authdata.php?path=Mc/Torisetu/t-780e.pdf>

TOYOPUC Correspondence table	Recommendation : PC3JX, PC3JX-D, PC10G Available : PC3J, PC3JL, PC3JD, PC3JG(-P)																				
Replacement table for Motor	Motor		Motor Type		Compatibility	Remarks column															
		XX / XC	BX / BC																		
		MC256-M003	R2AA06010FXRMW	R2AA06010FCRMW	×	The mounting is not compatible. Consider the coupling and mounting method.															
		MC256-M007	R2AA06020FXRMW	R2AA06020FCRMW	×	The mounting is not compatible. Consider the coupling and mounting method.															
		MC256-M014	R2AAB8075FXRMW	R2AAB8075FCRMW	○																
		MC256-M020			○																
		MC256-M030			○																
		MC256-M035	R2AA13120LXR94M	R2AA13120LCR94M	×	The mounting is not compatible. Consider the coupling and mounting method.															
		MC256-M065			×	The mounting is not compatible. Consider the coupling and mounting method.															
		MC256-M090			×	The mounting is not compatible. Consider the coupling and mounting method.															
MC256-M140	R2AA18350LXR94M	R2AA18350LCR94M	×	The mounting is not compatible. Consider the coupling and mounting method.																	
MC256-M220			×	The mounting is not compatible. Consider the coupling and mounting method.																	
Replacement table for Amplifier		Select Motor	Compatible amplifier	Measurement		Mounting compatibility of amplifier															
		W	H	D																	
		R2AA06010F□RM□	RS2A01A3MA5J00	40	160	130	△ *1														
R2AA06020F□RM□	RS2A03A3MA5J00	50	160	130																	
R2AAB8075F□RM□	RS2A05A3MA5J00	85	160	130	△ *1																
R2AA13120L□R94M																					
R2AA13180H□R94M	RS2A10A3MA5J00	100	235	220	△ *1																
R2AA18350L□R94M																					
For the □ at the motor model, Please see "R2 Motor Specifications" on the page.																					
program Parameter Diversion		TOYOPUC	Program(Ladder)	Change required																	
			Parameter	Change required																	
		MCML	Setting data	Change required																	
Parameter	Change required																				
Regenerative resistance Diversion		* When using only the built-in regenerative resistor																			
		MC256	R2 Amplifier		Diversion of regenerative resistance	Remarks column															
		Amplifier type	Maximum acceptable power (W)	Amplifier type			Maximum acceptable power (W)														
		MC256-003/090	—	RS2A01A3MA5J00	5W	○															
				RS2A03A3MA5J00	5W	○															
				RS2A05A3MA5J00	20W	○															
MC256-140/220	50W	RS2A10A3MA5J00	90W	○																	
* When using an external regenerative resistor Refer to the R2 series servo system (T-780N) and select.																					
* If the regenerative execution power exceeds 500W, please review the load conditions.																					
MC256 Motor Specification	MC256-M□□□□** X : No brake, B : With brake ABS sensor lead wire terminal X : No connector, B : With connector Maximum continuous torque (kg·cm)																				
R2 Motor Specification	R2 AA 06 020 F C R 00 M R2 Series Voltage AA···200V motor Flange dimensions 06·····60mm B8·····86mm 13·····130mm 18·····180mm 22·····220mm Maximum rotational velocity S·····1,000min⁻¹ B·····2,000min⁻¹ R·····2,500min⁻¹ L·····3,000 / 4,000min⁻¹ H·····3,500min⁻¹ D·····4,500 / 5,000min⁻¹ Holding Brake X···No brake B···With brake (90V) C···With brake (24V) Rated output 010···100W 100···1.0kW 550···5.5kW 020···200W 120···1.2kW 700···7.0kW 040···400W 180···1.8kW 750···7.5kW 050···500W 350···3.5kW 11K···11kW 075···750W 450···4.5kW 15K···15kW Additional specification identification M···CE mark + UL supported E···CE mark supported EB···CE mark supported (400W) Absent···No standard JTEKT Specification identification MW···Flange dimensions 86mm or less MV···Flange dimensions 86mm or less (CE application) 94···Flange dimensions 130mm or less Encoder type R···Vattery-less absolute encoder (HA035) Resolution within 1 rotation 131012 (17bit) Resolution within multiple rotation 65536 (16bit)																				
	MCML Peripheral Equipment Tools	MCML, R2 special cable																			
		Name	Type	Remarks column																	
MECHATROLINK-III cable		ML3-C****	Made by MEIHO Electric Corporation Reference: Relationship between Type and cable length <table><tr><td>Type</td><td>Length</td><td>Type</td><td>Length</td></tr><tr><td>ML3-C0002</td><td>0.2m</td><td>ML3-C0030</td><td>3.0m</td></tr><tr><td>ML3-C0005</td><td>0.5m</td><td>ML3-C0050</td><td>5.0m</td></tr><tr><td>ML3-C0010</td><td>1.0m</td><td>ML3-C0100</td><td>10.0m</td></tr></table>			Type	Length	Type	Length	ML3-C0002	0.2m	ML3-C0030	3.0m	ML3-C0005	0.5m	ML3-C0050	5.0m	ML3-C0010	1.0m	ML3-C0100	10.0m
Type		Length	Type	Length																	
ML3-C0002	0.2m	ML3-C0030	3.0m																		
ML3-C0005	0.5m	ML3-C0050	5.0m																		
ML3-C0010	1.0m	ML3-C0100	10.0m																		
Encoder cable	R2-ENC-**M	Replacement with R2 specification cable Reference: Relationship between Type and cable length <table><tr><td>Type</td><td>Length</td><td>Type</td><td>Length</td></tr><tr><td>R2-ENC-05M</td><td>5m</td><td>R2-ENC-20M</td><td>20m</td></tr><tr><td>R2-ENC-10M</td><td>10m</td><td>R2-ENC-30M</td><td>30m</td></tr><tr><td>R2-ENC-15M</td><td>15m</td><td></td><td></td></tr></table>			Type	Length	Type	Length	R2-ENC-05M	5m	R2-ENC-20M	20m	R2-ENC-10M	10m	R2-ENC-30M	30m	R2-ENC-15M	15m			
Type	Length	Type	Length																		
R2-ENC-05M	5m	R2-ENC-20M	20m																		
R2-ENC-10M	10m	R2-ENC-30M	30m																		
R2-ENC-15M	15m																				
General I/O cable	R2-IO-*M	For CN2 connection: 4 types of signal EM, H, BR, STB Reference: Relationship between Type and cable length <table><tr><td>Type</td><td>Length</td></tr><tr><td>R2-IO-1M</td><td>1m</td></tr><tr><td>R2-IO-2M</td><td>2m</td></tr><tr><td>R2-IO-3M</td><td>3m</td></tr></table>			Type	Length	R2-IO-1M	1m	R2-IO-2M	2m	R2-IO-3M	3m									
Type	Length																				
R2-IO-1M	1m																				
R2-IO-2M	2m																				
R2-IO-3M	3m																				
Peripheral Equipment Tools																					
PCwin (V17.8R01~)		TJA-2031	Software for PLC																		
Motion Tool (V2.30R01~)		TJA-6882	Software for MCML																		
※M0win5 cannot be used. ※Motion Tool is connected via TOYOPUC, so a TOYOPUC connection cable is required.																					

* Please refer to the TOYOPUC MCML Instruction Manual (T-768E,T-765E)

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