

# Mitsubishi General-Purpose AC Servo Renewal Tool



# H

Assisting upgrades from

**MELSERVO-H□A(N) to  
MELSERVO-J3-□A**



# J3

# Replace MR-H□A(N) Series with MR-J3-□A Series using existing wiring!

The MR-H□A(N) renewal tool is a tool used to replace an existing MR-H□A(N) Series servo amplifier with the MR-J3-□A Series servo amplifier.

This tool is configured of a renewal kit which provides compatibility of existing installation dimensions, cables, and terminal blocks, and a motor conversion cable used when replacing the MR-H servomotor with a MR-J3 servomotor.

**Before replacement**

## MR-H□A(N) Series

MR-H□A(N) servo amplifier  
and MR-H servomotor



**Primary replacement**

When replacing  
only servo amplifier

**Package replacement**

When replacing  
servo amplifier and  
servomotor together

### Features

- An existing MR-H Series servomotor can be run with an MR-J3-□A Series servo amplifier (standard product)<sup>\*1</sup>.
- Wiring work can be reduced by using the existing wiring.
- Renewal kit can be mounted using existing mounting holes.
- Slide mechanism on renewal kit allows available space to be used effectively.
- Renewal kit is compatible with detector pulse open collector output, a function lacking when replacing MR-H□A(N) Series servo amplifier with MR-J3-□A Series servo amplifier.
- Renewal tool allows renewal to be carried out in stages, such as primary to secondary replacement.

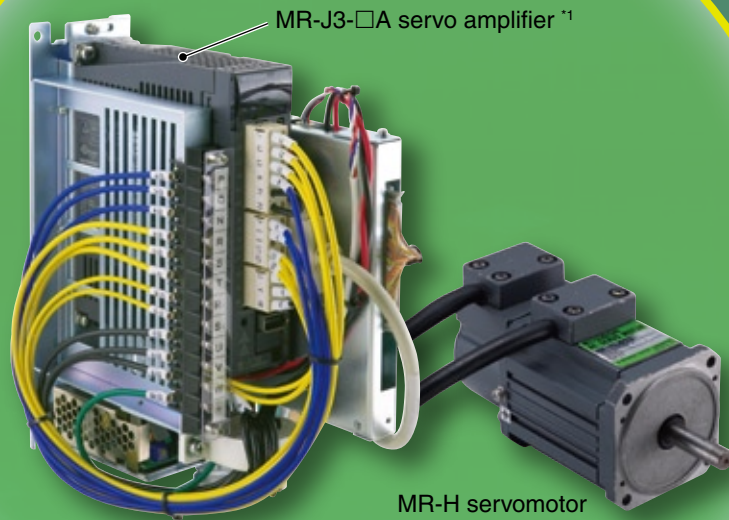
\*Supported from software version C6 and higher.

**Primary replacement** : Replace only servo amplifier

**Secondary replacement** : Replace servomotor after replacing servo amplifier

**Package replacement** : Replace servo amplifier and servomotor together

\* The servomotor cannot be replaced as an isolated unit.



MR-J3-□A servo amplifier \*1

MR-H servomotor

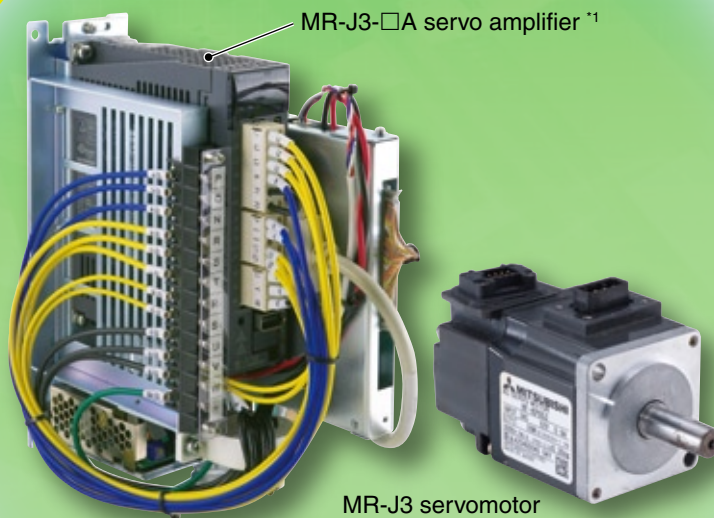
**MR-J3-□A servo amplifier \*1**  
**MR-H servomotor**

After replacement

# MR-J3-□A Series

**Secondary replacement**

When replacing servomotor  
 after replacing servo amplifier



MR-J3-□A servo amplifier \*1

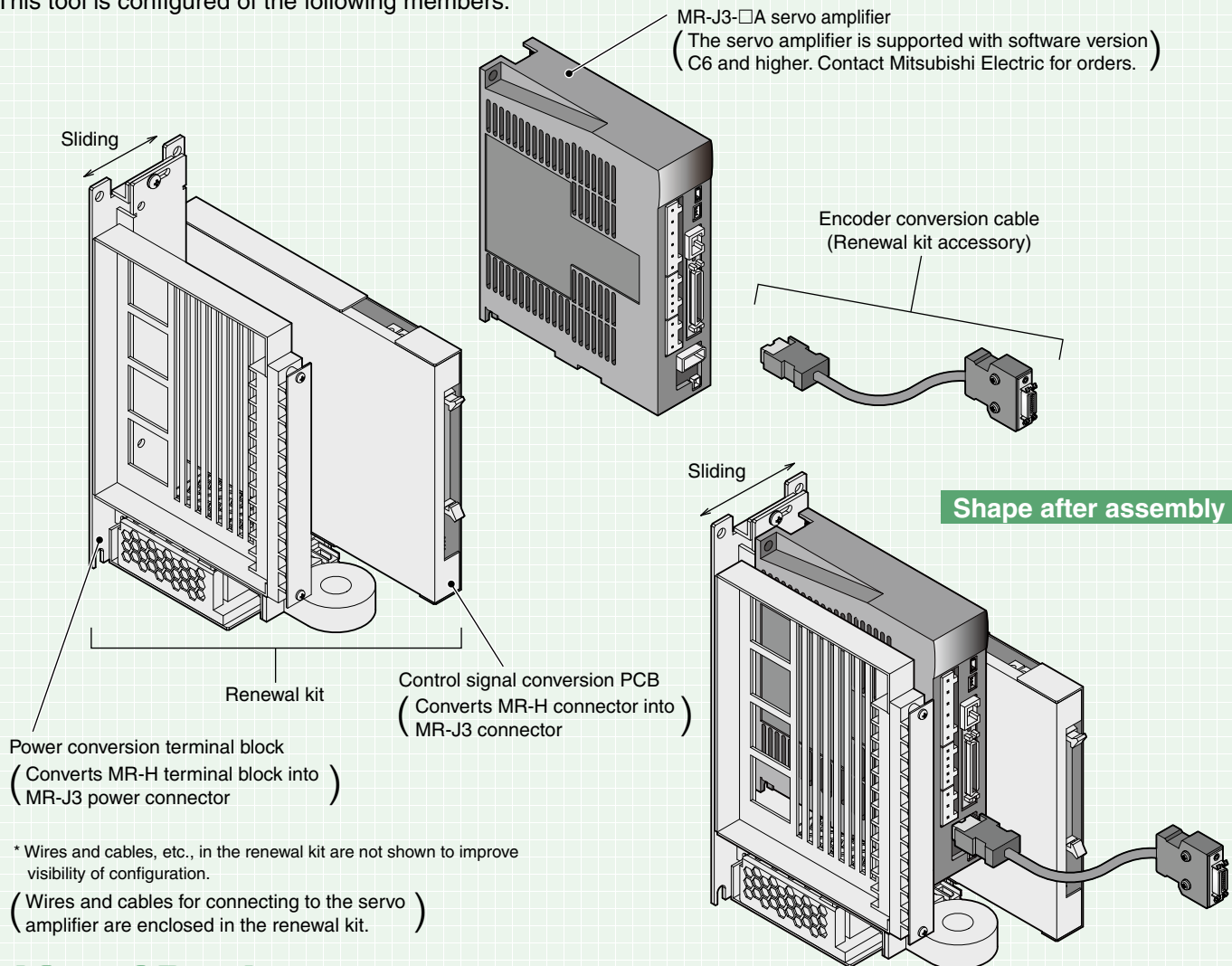
MR-J3 servomotor

**MR-J3-□A servo amplifier \*1**  
**MR-J3 servomotor**

# J3

# Structure

This tool is configured of the following members.



\* Wires and cables, etc., in the renewal kit are not shown to improve visibility of configuration.

(Wires and cables for connecting to the servo amplifier are enclosed in the renewal kit.)

# List of Products

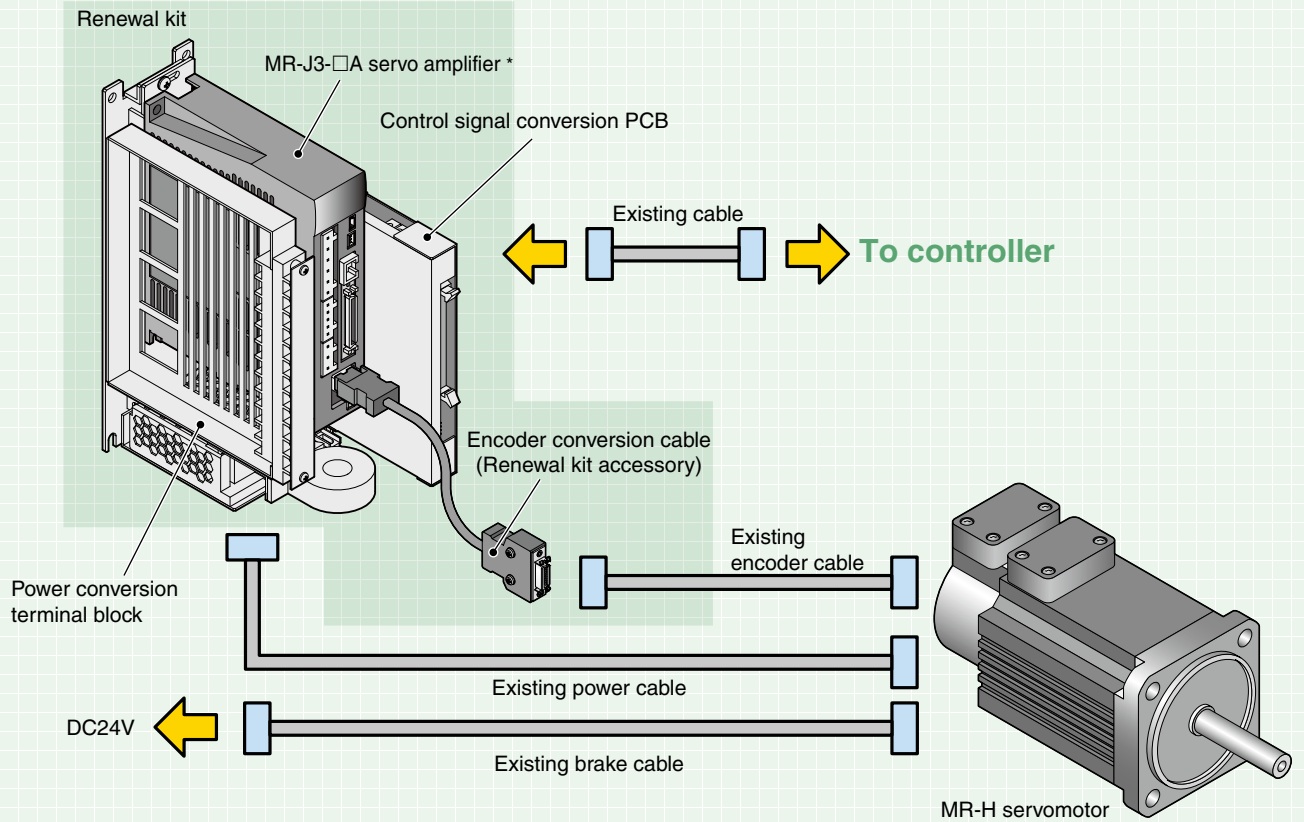
## Renewal tool

No.	Part name	Model	Details	Remarks
①	Renewal kit	SC-HAJ3KT06K	Used for primary replacement and package replacement	For MR-J3-□A amplifier capacity: 100 to 600W
②		SC-HAJ3KT1K		For MR-J3-□A amplifier capacity: 700W,1kW
③		SC-HAJ3KT3K		For MR-J3-□A amplifier capacity: 2kW,3.5kW
④		SC-HAJ3KT5K		For MR-J3-□A amplifier capacity: 5kW
⑤		SC-HAJ3KT7K		For MR-J3-□A amplifier capacity: 7kW
⑥		SC-HAJ3KT11K		For MR-J3-□A amplifier capacity: 11kW
⑦		SC-HAJ3KT15K		For MR-J3-□A amplifier capacity: 15kW
⑧		SC-HAJ3KT22K		For MR-J3-□A amplifier capacity: 22kW
⑨	Power conversion cable	SC-SAJ3PW2KC1M	Used for secondary replacement and package replacement	For HA-LH→HF-LP, HA-SH→HF-SP, HA-UH→HF-SP
⑩		SC-SAJ3PW5KC1M		For HA-LH→HC-LP, HA-UH→HC-UP, HC-UF→HC-UP
⑪		SC-SAJ3PW7KC1M		
⑫		SC-SAJ3PW2KC1M1		For HC-SF→HF-SP
⑬		SC-SAJ3PW7KC1M1		
⑭		SC-SAJ3PW2KC1M-S2		
⑮	SC-HAJ3PW1C1M			
⑯	Encoder conversion cable	SC-HAJ3ENM1C03M-A1	Used for secondary replacement and package replacement	For HC-KF→HF-KP, HC-MF→HF-MP, HA-FF→HF-KP, HC-UF→HC-UP, load side
⑰		SC-HAJ3ENM1C03M-A2		For HC-KF→HF-KP, HC-MF→HF-MP, HA-FF→HF-KP, HC-UF→HC-UP, counter load side
⑱		SC-HAJ3ENM2C05M-A1		For HA-MH→HF-MP, HA-FH→HF-KP, load side
⑲		SC-HAJ3ENM2C05M-A2		For HA-MH→HF-MP, HA-FH→HF-KP counter load side
⑳		SC-HAJ3ENM3C1M		For HA-SH, HC-SF→HF-SP, HC-RF→HC-RP HA-UH, HC-UF→HC-UP HA-LH→HC-LP
㉑		SC-HAJ3ENM4C03M		For HC-UF3000r/min→HC-UP
㉒		SC-SAJ3BK1C1M		For HA-SH→HF-SP, HA-UH→HF-SP
㉓	SC-SAJ3BK2C1M	For HA-UH→HF-UP		

\* A renewal kit compatible with the servo amplifier capacity 30kw or higher is not available.

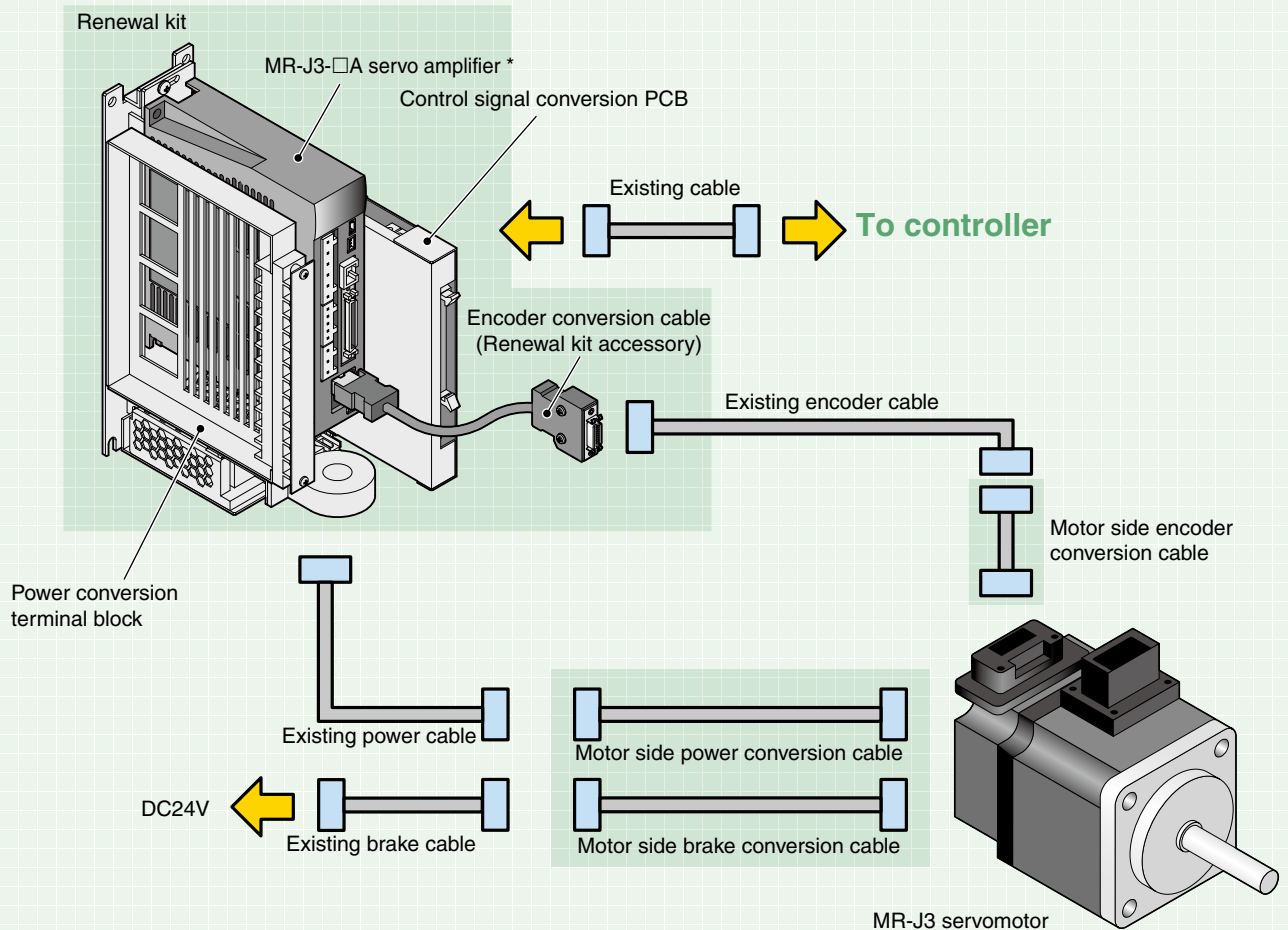
## Basic Configuration

### Primary Replacement (When replacing only servo amplifier)



### Secondary replacement (When replacing servomotor after replacing servo amplifier)

### Package replacement (When replacing servo amplifier and servomotor together)



\* Supported from software version C6 and higher.

# MR-H Renewal Replacement Combination Table

## Primary Replacement

● When replacing only servo amplifier

## Secondary replacement

● When replacing servomotor after replacing servo amplifier

## Package replacement

● When replacing servo amplifier and servomotor together

Existing model		Primary replacement model	Renewal tool	Secondary replacement and package replacement model			Motor side conversion cable model		
Servo amplifier model	Servomotor model	Servo amplifier model *20 *21	Renewal kit model *11	Servo amplifier model *20 *21	Servomotor model *21*24	Compatible	Power conversion cable	Encoder conversion cable	Brake conversion cable
<b>&lt;HA-FF motor&gt;*19</b>				<b>&lt;HF-KP motor&gt;</b> Incompatible with motor equipped with reduction gears.					
MR-H10AN	HA-FF053(B) HA-FF13(B)	MR-J3-10A	SC-HAJ3KT06K	MR-J3-10A	HF-KP053(B) HF-KP13(B)	x *12	MR-PWS1CBL□M-■-L *16	SC-HAJ3ENM1C03M-■	MR-BKS1CBL□M-■-L *17
MR-H20AN	HA-FF23(B)	MR-J3-20A		MR-J3-20A	HF-KP23(B)				
MR-H40AN	HA-FF33(B) HA-FF43(B)	MR-J3-40A		MR-J3-40A	HF-KP43(B) *3 HF-KP43(B)				
MR-H60AN	HA-FF63(B)	MR-J3-70A *1	SC-HAJ3KT1K	MR-J3-70A *1	HF-KP73(B) *3				
<b>&lt;HA-FH motor&gt;*19</b>				<b>&lt;HF-KP motor&gt;</b> Incompatible with motor equipped with reduction gears.					
MR-H10A(N)	HA-FH053(B) HA-FH13(B)	MR-J3-10A	SC-HAJ3KT06K	MR-J3-10A	HF-KP053(B) HF-KP13(B)	x *12	MR-PWS1CBL□M-■-L *16	SC-HAJ3ENM2C05M-■	MR-BKS1CBL□M-■-L *17
MR-H20A(N)	HA-FH23(B)	MR-J3-20A		MR-J3-20A	HF-KP23(B)				
MR-H40A(N)	HA-FH33(B) HA-FH43(B)	MR-J3-40A		MR-J3-40A	HF-KP43(B) *3 HF-KP43(B)				
MR-H60A(N)	HA-FH63(B)	MR-J3-70A *1	SC-HAJ3KT1K	MR-J3-70A *1	HF-KP73(B) *3				
<b>&lt;HA-LH motor&gt;*19</b>				<b>&lt;HC/HA-LP motor&gt;</b> Incompatible with motor equipped with reduction gears.					
MR-H60A(N)	HA-LH52	MR-J3-70A *1 *6	SC-HAJ3KT1K	MR-J3-60A	HC-LP52	○	SC-SAJ3PW2KC1M1	SC-HAJ3ENM3C1M	—
MR-H200A(N)	HA-LH102 HA-LH152	MR-J3-200A *6	SC-HAJ3KT3K *8	MR-J3-100A *2	HC-LP102				
MR-H350A(N)	HA-LH202	MR-J3-350A	SC-HAJ3KT3K	MR-J3-200A	HC-LP152				
MR-H500A(N)	HA-LH302 HA-LH502	MR-J3-500A	SC-HAJ3KT5K	MR-J3-350A	HC-LP202	△ *14	SC-SAJ3PW7KC1M1	SC-HAJ3ENM3C1M	—
MR-H700A(N)	HA-LH702	MR-J3-700A	SC-HAJ3KT7K	MR-J3-500A	HA-LP502				
MR-J3-700A	HA-LP702			MR-J3-700A	HA-LP702	○	SC-SAJ3PW7KC1M1		
<b>&lt;HA-MH motor&gt;*19</b>				<b>&lt;HF-MP motor&gt;</b>					
MR-H20A(N)	HA-MH053(B) HA-MH13(B)	MR-J3-20A	*6 SC-HAJ3KT06K	MR-J3-10A	HF-MP053(B) HF-MP13(B)	○	MR-PWS2CBL03M-■-L *16	SC-HAJ3ENM2C05M-■	MR-BKS2CBL03M-■-L *17
MR-H40A(N)	HA-MH23(B)	MR-J3-40A		MR-J3-20A	HF-MP23(B)				
MR-H60A(N)	HA-MH43(B)	MR-J3-60A		MR-J3-40A	HF-MP43(B)				
MR-H100A(N)	HA-MH73(B)	MR-J3-100A	SC-HAJ3KT1K	MR-J3-70A	HF-MP73(B)				
<b>&lt;HA-SH motor&gt;*19</b>				<b>&lt;HF-SP motor&gt;</b>					
MR-H60A(N)	HA-SH52(B) HA-SH53(B)	MR-J3-60A	SC-HAJ3KT06K	MR-J3-60A	HF-SP52(B) HF-SP52(B) *10	△ *15	SC-SAJ3PW2KC1M1	SC-HAJ3ENM3C1M	SC-SAJ3BK1C1M
MR-H100A(N)	HA-SH81(B) HA-SH102(B) HA-SH103(B)	MR-J3-100A	SC-HAJ3KT1K	MR-J3-100A	HF-SP81(B) HF-SP102(B) HF-SP102(B) *10				
MR-H200A(N)	HA-SH121(B) HA-SH152(B) HA-SH153(B) HA-SH201(B) HA-SH202(B) HA-SH203(B)	MR-J3-200A	SC-HAJ3KT3K	MR-J3-200A	HF-SP121(B) HF-SP152(B) HF-SP152(B) *10 HF-SP201(B) HF-SP202(B) HF-SP202(B) *10				
MR-H350A(N)	HA-SH301(B) HA-SH352(B) HA-SH353(B)	MR-J3-350A		MR-J3-350A	HF-SP301(B) HF-SP352(B) HF-SP352(B) *10		SC-SAJ3PW5KC1M1		
MR-H500A(N)	HA-SH502(B)	MR-J3-500A	SC-HAJ3KT5K	MR-J3-500A	HF-SP502(B)		SC-SAJ3PW7KC1M1		
MR-H700A(N)	HA-SH702(B)	MR-J3-700A	SC-HAJ3KT7K	MR-J3-700A	HF-SP702(B)				
<b>&lt;HA-UH motor&gt;*19</b>				<b>&lt;HC-UP motor(HF-SP motor)&gt;</b>					
MR-H40A(N)	HA-UH32(B)	MR-J3-40A*6	SC-HAJ3KT06K	MR-J3-60A *1	HF-SP52(B) *3	x *12	SC-SAJ3PW2KC1M1	SC-HAJ3ENM3C1M	SC-SAJ3BK1C1M
MR-H60A(N)	HA-UH52(B)	MR-J3-70A *1 *6	SC-HAJ3KT1K *7	MR-J3-60A	HF-SP52(B)				
MR-H200A(N)	HA-UH102(B) HA-UH152(B)	MR-J3-200A	SC-HAJ3KT3K	MR-J3-200A	HC-UP152(B) *3 HC-UP152(B)				
MR-H350A(N)	HA-UH222(B)	MR-J3-350A MR-J3-350A *6	SC-HAJ3KT3K SC-HAJ3KT3K *9	MR-J3-350A	HC-UP202(B) *4 HC-UP352(B) *3		SC-SAJ3PW2KC1M1		*18
MR-H500A(N)	HA-UH352(B) HA-UH452(B)	MR-J3-500A	SC-HAJ3KT5K	MR-J3-500A	HC-UP352(B) *3 HC-UP502(B) *3		SC-SAJ3PW7KC1M1		SC-SAJ3BK2C1M
<b>&lt;HC-KF motor&gt;*19</b>				<b>&lt;HF-KP motor&gt;</b>					
MR-H20AN	HC-KF053(B) HC-KF13(B)	MR-J3-10A	*2 SC-HAJ3KT06K	MR-J3-10A	HF-KP053(B) HF-KP13(B)	○	MR-PWS2CBL03M-■-L *16	SC-HAJ3ENM1C03M-■	MR-BKS2CBL03M-■-L *17
MR-H40AN	HC-KF23(B)	MR-J3-20A		MR-J3-20A	HF-KP23(B)				
MR-H60AN	HC-KF43(B)	MR-J3-40A		MR-J3-40A	HF-KP43(B)				
<b>&lt;HC-MF motor&gt;*19</b>				<b>&lt;HF-MP motor&gt;</b>					
MR-H20AN	HC-MF053(B) HC-MF13(B)	MR-J3-10A	*2 SC-HAJ3KT06K	MR-J3-10A	HF-MP053(B) HF-MP13(B)	○	MR-PWS2CBL03M-■-L *16	SC-HAJ3ENM1C03M-■	MR-BKS2CBL03M-■-L *17
MR-H40AN	HC-MF23(B)	MR-J3-20A		MR-J3-20A	HF-MP23(B)				
MR-H60AN	HC-MF43(B)	MR-J3-40A		MR-J3-40A	HF-MP43(B)				
MR-H100AN	HC-MF73(B)	MR-J3-70A	SC-HAJ3KT1K	MR-J3-70A	HF-MP73(B)				

Existing model		Primary replacement model	Renewal tool	Secondary replacement and package replacement model		Motor side conversion cable model						
Servo amplifier model	Servomotor model	Servo amplifier model *20 *21	Renewal kit model *11	Servo amplifier model *20 *21	Servomotor model *21*24	Power conversion cable	Encoder conversion cable	Brake conversion cable				
<b>&lt;HC-RF motor&gt;*19</b>				<b>&lt;HC-RP motor&gt;</b>								
MR-H200AN	HC-RF103(B) HC-RF153(B)	MR-J3-200A	SC-HAJ3KT3K	MR-J3-200A	HC-RP103(B) HC-RP153(B)	○ Existing cables usable	SC-HAJ3ENM3C1M	Existing cables usable				
MR-H350AN	HC-RF203(B)	MR-J3-350A		MR-J3-350A	HC-RP203(B)							
MR-H500AN	HC-RF353(B)	MR-J3-500A	SC-HAJ3KT5K	MR-J3-500A	HC-RP353(B)							
	HC-RF503(B)				HC-RP503(B)							
<b>&lt;HC-SF motor&gt;*19</b>				<b>&lt;HF-SP motor&gt;</b>								
MR-H60AN	HC-SF52(B) HC-SF53(B)	MR-J3-60A	SC-HAJ3KT06K	MR-J3-60A	HF-SP52 HF-SP52 *10	○ *5	SC-SAJ3PW2KC1M-S2 SC-HAJ3PW1C1M SC-SAJ3PW2KC1M-S2 SC-HAJ3ENM3C1M	*5				
MR-H100AN	HC-SF81(B) HC-SF102(B) HC-SF103(B)	MR-J3-100A	SC-HAJ3KT1K	MR-J3-100A	HF-SP81 HF-SP102 HF-SP102 *10							
	MR-H200AN				HC-SF121(B) HC-SF152(B) HC-SF153(B) HC-SF201(B) HC-SF202(B) HC-SF203(B)				MR-J3-200A	SC-HAJ3KT3K	HF-SP121 HF-SP152 HF-SP152 *10 HF-SP201 HF-SP202 HF-SP202 *10	
					MR-H350AN						HC-SF301(B) HC-SF352(B) HC-SF353(B)	MR-J3-350A
MR-H500AN		HC-SF502(B)	MR-J3-500A	SC-HAJ3KT5K							MR-J3-500A	
MR-H700AN		HC-SF702(B)	MR-J3-700A	SC-HAJ3KT7K	MR-J3-700A						HF-SP702	Existing cables usable
<b>&lt;HC-UF motor&gt;*19</b>				<b>&lt;HC-UP motor&gt;</b>								
MR-H10AN	HC-UF13(B)	MR-J3-10A	SC-HAJ3KT06K	*13					*13			
MR-H40AN	HC-UF23(B)	MR-J3-20A *2		MR-J3-70A *2	HC-UP72(B) HC-UP72(B) *10				○ Existing cables usable	SC-HAJ3ENM3C1M SC-SAJ3PW2KC1M1	SC-HAJ3ENM4C03M	*18
MR-H60AN	HC-UF43(B)	MR-J3-40A *2										
MR-H100AN	HC-UF72(B) HC-UF73(B)	MR-J3-70A *2	SC-HAJ3KT1K	MR-J3-200A	HC-UP152(B)	○ Existing cables usable	SC-HAJ3ENM3C1M	Existing cables usable				
MR-H200AN	HC-UF152(B)	MR-J3-200A	SC-HAJ3KT3K	MR-J3-350A	HC-UP202(B)							
MR-H350AN	HC-UF202(B)	MR-J3-350A		MR-J3-500A	HC-UP352(B) HC-UP502(B)							
MR-H500AN	HC-UF352(B) HC-UF502(B)	MR-J3-500A	SC-HAJ3KT5K									
<b>&lt;HA-LF motor&gt;*19</b>				<b>&lt;HA-LP motor&gt;</b>								
MR-H11KAN (-S300)	HA-LF801(B) HA-LF12K1(B) HA-LF11K1M(B)	MR-J3-11KA	SC-HAJ3KT11K	MR-J3-11KA	HA-LP801(B) HA-LP12K1(B) HA-LP11K1M(B) HA-LP11K2(B)	○ Existing cables usable	SC-HAJ3ENM3C1M	Existing cables usable				
	MR-H15KAN (-S300)	HA-LF15K1 HA-LF15K1M(B) HA-LF15K2(B)			MR-J3-15KA				HA-LP15K1 HA-LP15K1M(B) HA-LP15K2(B)			
		MR-H22KAN (-S300)			HA-LF20K1 HA-LF25K1 HA-LF22K1M HA-LF22K2(B)				MR-J3-22KA	HA-LP20K1 HA-LP25K1 HA-LP22K1M HA-LP22K2(B)		
<b>&lt;HA-LH□K motor&gt;*19</b>				<b>&lt;HA-LP motor&gt;</b>								
MR-H11KA(N)	HA-LH11K2	MR-J3-11KA	SC-HAJ3KT11K	MR-J3-11KA	HA-LP11K2	△ +15	*23	SC-HAJ3ENM3C1M	—			
MR-H15KA(N)	HA-LH15K2	MR-J3-15KA	SC-HAJ3KT15K	MR-J3-15KA	HA-LP15K2 *23	△ +15						
MR-H22KA(N)	HA-LH22K2	MR-J3-22KA	SC-HAJ3KT22K	MR-J3-22KA	HA-LP22K2 *23	△ +15 *22						

- \*1. The servo amplifier capacity increases.
- \*2. The servo amplifier capacity decreases.
- \*3. The servomotor capacity increases.
- \*4. When replacing the servomotor, check the capacity selection again when selecting the replacement motor.
- \*5. When replacing a motor with brakes in the secondary stage or as a package, the magnetic brake cable must be newly laid.
- \*6. Package replacement is recommended as the servo amplifier must be replaced again after secondary replacement.
- \*7. Package replacement is recommended as the renewal kit (model: SC-HAJ3KT06K) must be replaced again after secondary replacement.
- \*8. With secondary replacement or package replacement, the servo amplifier capacity will decrease and change the servo amplifier's outline shape. A special renewal kit is required in this case.
- \*9. With secondary replacement or package replacement, the servo amplifier capacity will increase and greatly change the servo amplifier's outline shape and terminal block position, etc., so the renewal kit cannot be used.
- \*10. Compatible with the rated speed 2000r/min servomotor. (The speed range and torque characteristics are satisfied.)
- \*11. When using the renewal kit, the dimensions will increase compared to the existing MR-H servo amplifier.
- \*12. When replacing the HA-FE or HA-FF motor with the HF-KP motor, or the HA-UH motor with the HC-UP or HF-SP motor, the flange dimensions and shaft end dimensions are not compatible, so the installation section and the coupling with the servomotor shaft, such as the coupling and pulley must be changed. (Consult with Mitsubishi Electric if there are any difficulties.)
- \*13. Consult with Mitsubishi for the secondary replacement and package replacement servo amplifier, servomotor and motor side conversion cable.
- \*14. With secondary replacement or package replacement, the motor flange angle dimensions will increase by 6mm, and the step on the motor body side of the output shaft will differ, so replacement may not be possible in some cases.
- \*15. When replacing the HA-SH motor with the HF-SP motor, the motor inertia will be approx. 0.5 to 0.7 higher than the HA-SH motor. Pay attention to the load moment of inertia ratio. Replacement may not be possible depending on the existing equipment. In addition, when replacing the HA-LH□K motor with the HA-LP□K motor, the motor inertia will be approx. 0.75 to 0.9 higher than the HA-LH□K motor. Pay attention to the load moment of inertia ratio. Replacement may not be possible depending on the existing equipment.
- \*16. Use the Mitsubishi motor power cable (model: MR-PWS1CBL□M-■-L, MR-PWS2CBL03M-■-L) for the replacement motor (HF-KP, HF-MP) power conversion cable.
- \*17. Use the Mitsubishi motor magnetic brake cable (MR-BKS1CBL□M-■-L, MR-BKS2CBL03M-■-L) for the replacement motor (HF-KP, HF-MP) brake conversion cable.
- \*18. Incorporated in the power conversion cable (SC-SAJ3PW2KC1M1).
- \*19. When using an existing model with the absolute position detection system, it shall be handled as a special product.
- \*20. The replacement servo amplifier is supported from software version C6 and higher. Consult with Mitsubishi Electric for orders.
- \*21. Purchase from Mitsubishi Electric.
- \*22. With secondary replacement or package replacement, the servomotor cooling fan will change from single-phase to 3-phase requiring new wires to be laid.
- \*23. When replacing the motor, the crimp terminals for existing power cables must be changed. (UVW terminal screw size HA-LH15K2, 22K2: M6, HA-LP15K2, 22K2: M8).
- \*24. When replacing the motor with reduction gears, the installation section and reduction ratio may differ depending on the motor. Consult with Mitsubishi before replacing.

# Outline dimensions

SC-HAJ3KT06K

[unit: mm]

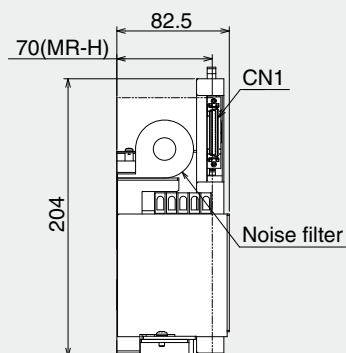
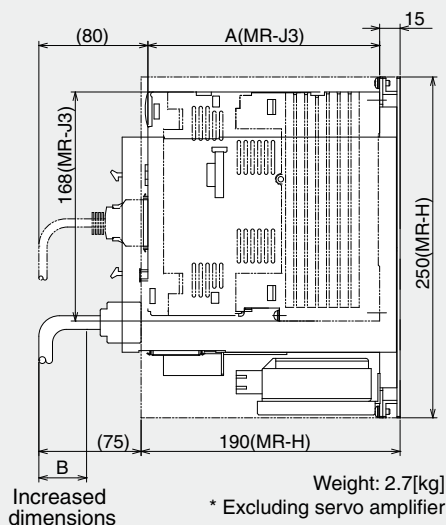
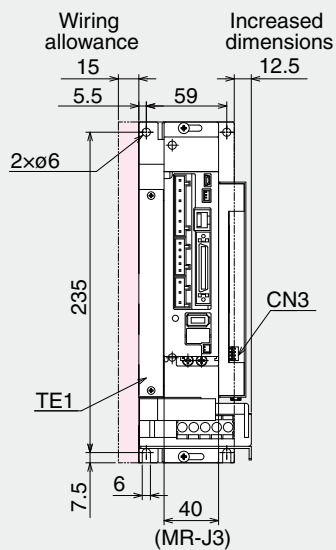


Table of dimension changes (Motors other than HA-MH)

Servo amplifier model		A	B	Remarks
Existing model	Replacement model			
MR-H20A(N)	MR-J3-20A	135	-35	
MR-H40A(N)	MR-J3-40A	135	0	
MR-H60A(N)	MR-J3-60A	170	0	

\*The increased dimensions will vary according to the servo amplifier capacity.

Table of dimension changes (HA-MH motor)

Servo amplifier model			A	B	Remarks
Existing model	Primary replacement model	Secondary and package replacement model			
MR-H20A(N)	MR-J3-20A	MR-J3-10A	135	-35	
MR-H40A(N)	MR-J3-40A	MR-J3-20A	135(170)	-35(0)	
MR-H60A(N)	MR-J3-60A	MR-J3-40A	170	0	

\* The increased dimensions will vary according to the servo amplifier capacity.

\* Dimensions shown in parentheses are for primary replacement.

SC-HAJ3KT1K

[unit: mm]

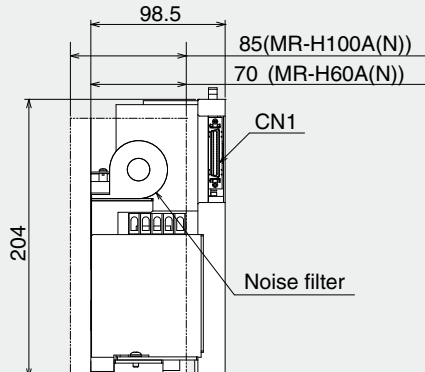
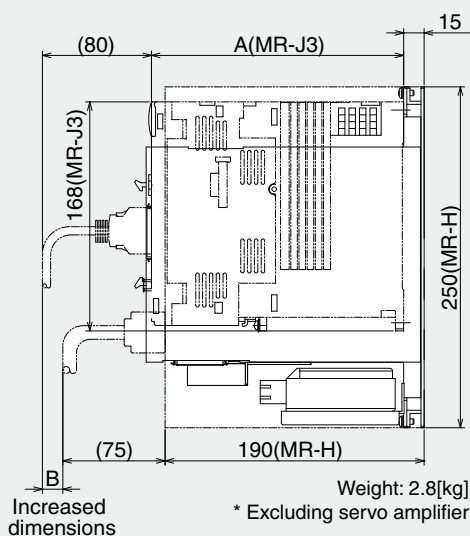
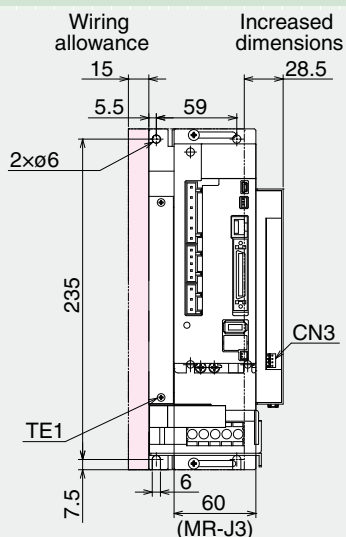


Table of dimension changes

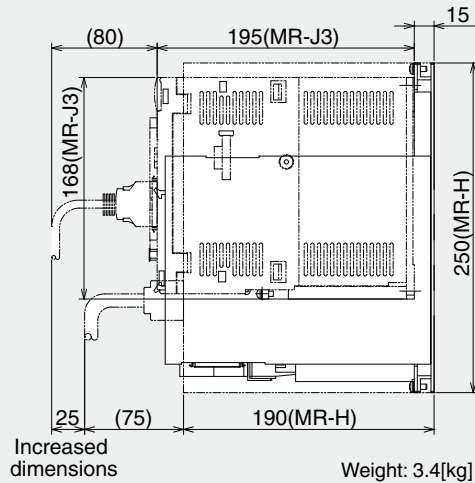
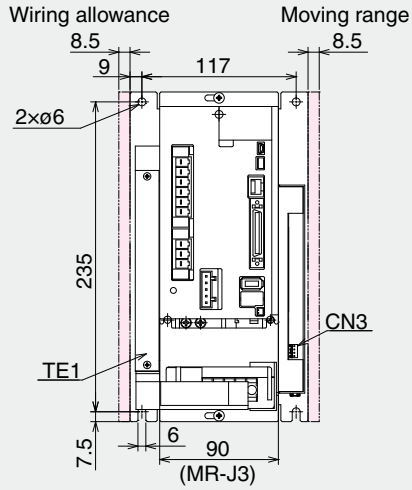
Servo amplifier model		A	B	Remarks
Existing model	Replacement model			
MR-H60A(N)	MR-J3-70A	170	0	
MR-H100A(N)	MR-J3-70A,100A	185	15	

\*The increased dimensions will vary according to the servo amplifier capacity.

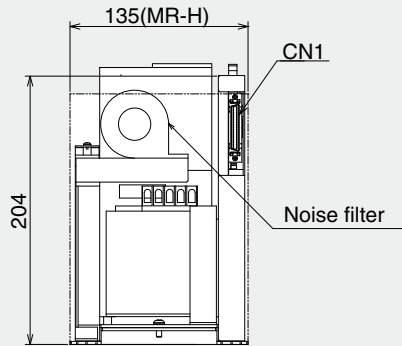


SC-HAJ3KT3K

[unit: mm]



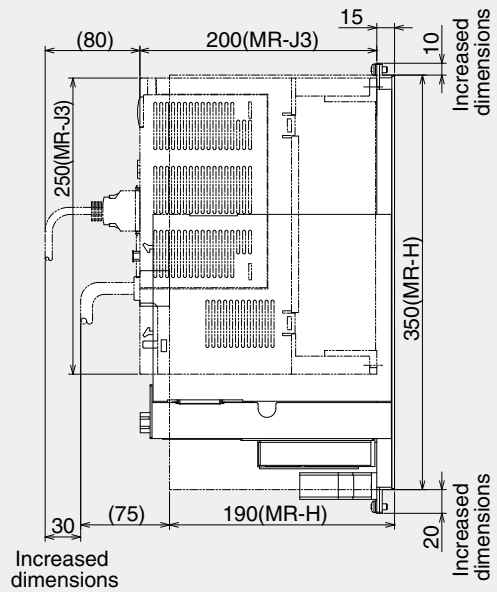
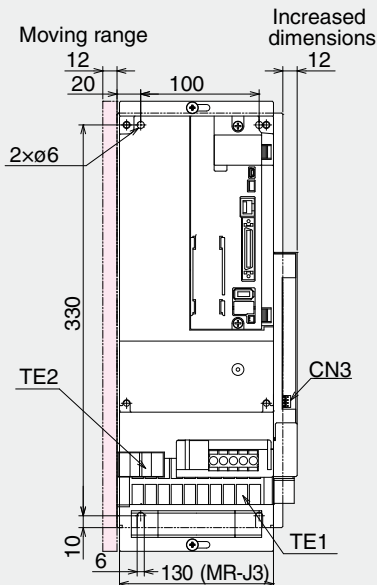
Weight: 3.4[kg]  
\* Excluding servo amplifier



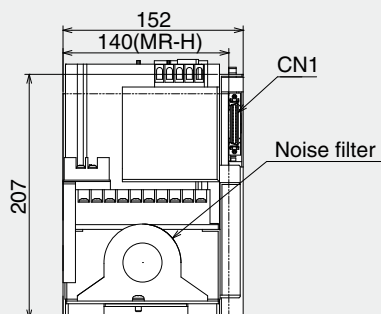
Servo amplifier model	
Existing model	Replacement model
MR-H200A(N)	MR-J3-200A
MR-H350A(N)	MR-J3-350A

SC-HAJ3KT5K

[unit: mm]



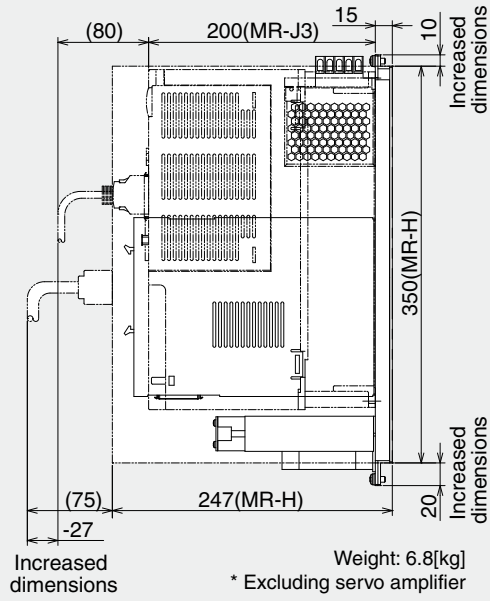
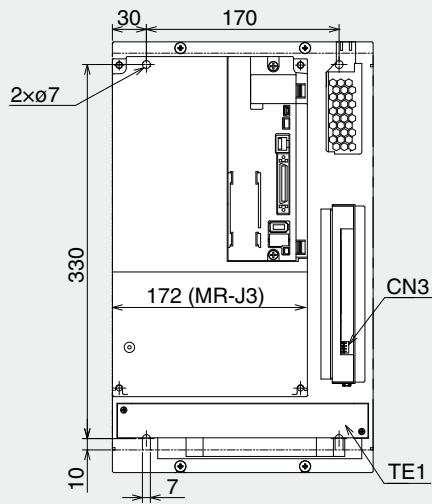
Weight: 4.2[kg]  
\* Excluding servo amplifier



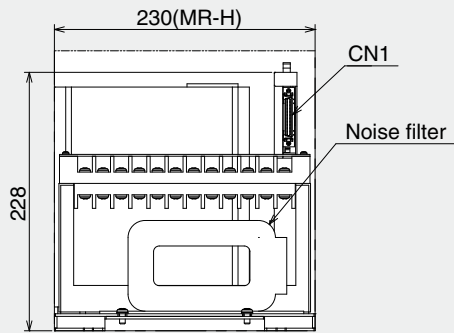
Servo amplifier model	
Existing model	Replacement model
MR-H500A(N)	MR-J3-500A

SC-HAJ3KT7K

[unit: mm]



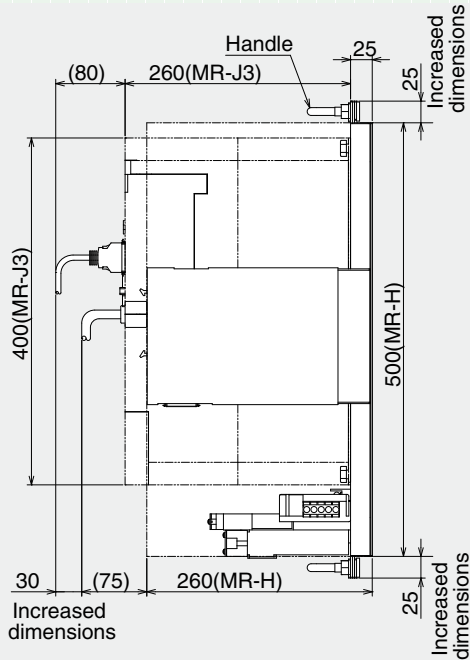
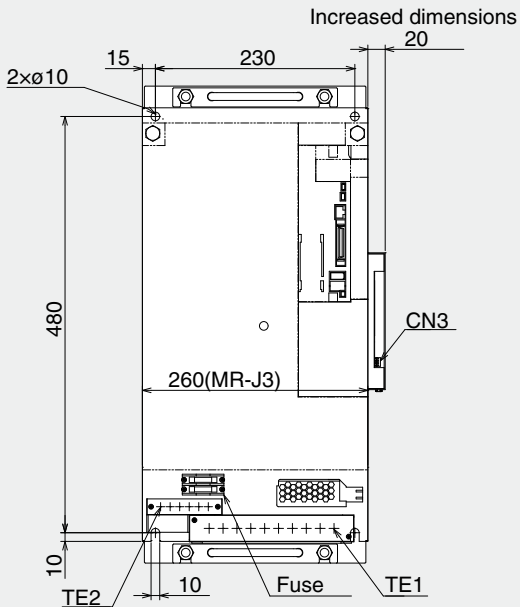
Weight: 6.8[kg]  
\* Excluding servo amplifier



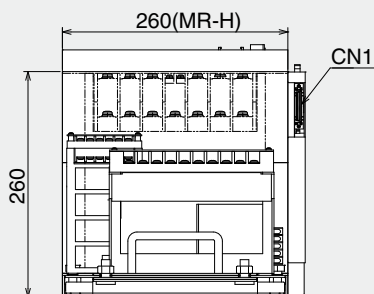
Servo amplifier model	
Existing model	Replacement model
MR-H700A(N)	MR-J3-700A

SC-HAJ3KT11K

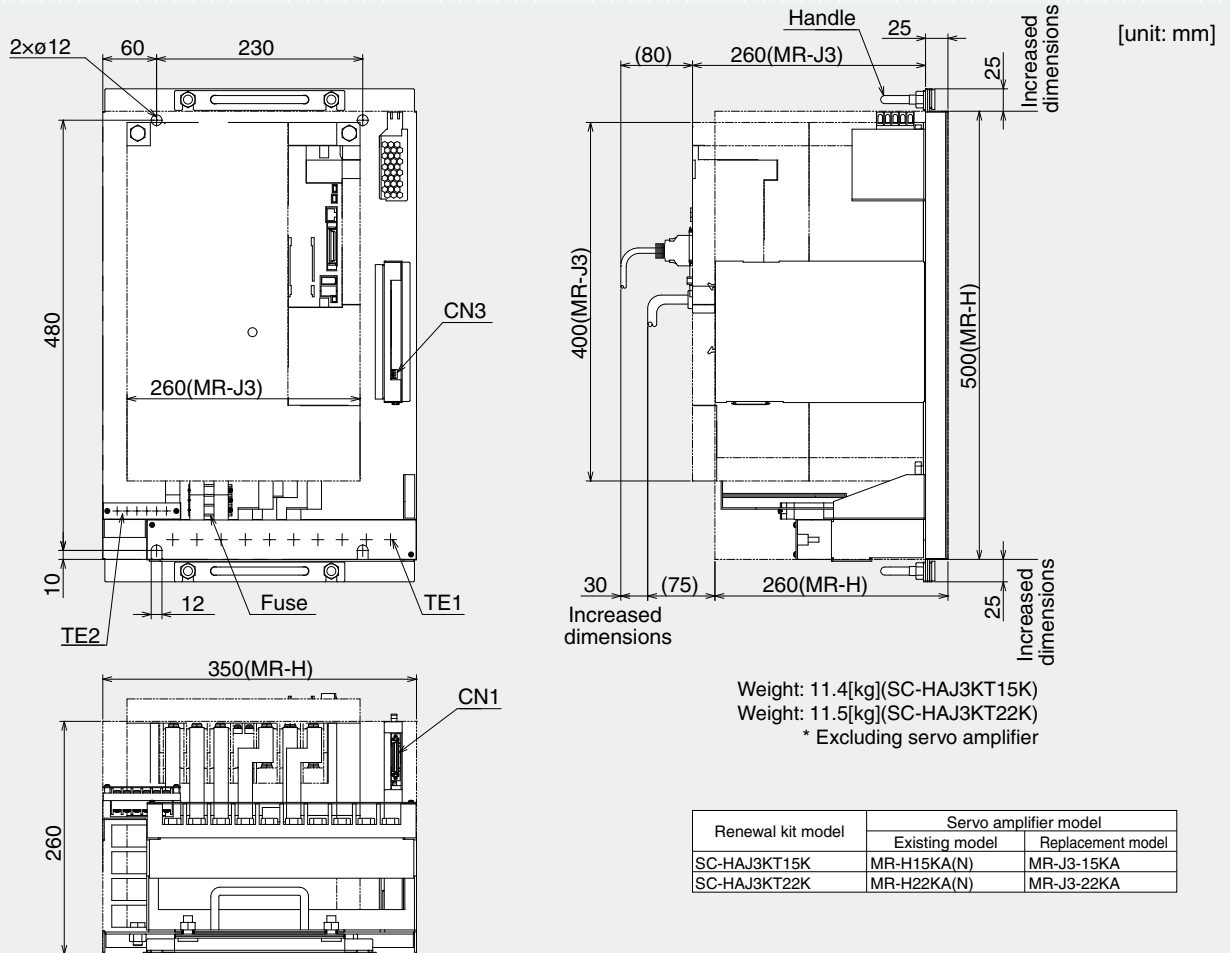
[unit: mm]



Weight: 9.4[kg]  
\* Excluding servo amplifier



Servo amplifier model	
Existing model	Replacement model
MR-H11KA(N)	MR-J3-11KA



## Precautions for Replacement

- When replacing the MR-H□A(N) Series with the MR-J3-□A Series, refer to the "Guide for Replacing MELSERVO-H□A(N) Series with MR-H□A(N) Renewal Tool (X903090601)" available on the Mitsubishi Electric System & Service web site for information.
- When several units are installed in a row, replacement may not be possible depending on the pitch between the servo amplifiers, models or number of units.
- Depending on the installation state, measures against noise may be required when making the replacement. Refer to the "Guide for Replacing MELSERVO-H□A(N) Series with MR-H□A(N) Renewal Tool (X903090601)" available on the Mitsubishi Electric System & Service web site for information.
- Take the cable life into consideration when using existing cables. If the cable is worn, it should be replaced with a new one.
- The conversion cable is not a high-flexible service part. Always fix the cable during use.
- Consult with Mitsubishi when using a detector cable longer than 50m. (For secondary replacement and package replacement.)
- The standard MR-J3 servomotor is not provided with an oil seal. If the existing MR-H servomotor is provided with an oil seal, please take care when selecting the replacement mode. Consult with Mitsubishi if a servomotor with oil seal is required.
- Depending on the machine conditions (inertia, load, etc.), the servo amplifier's capacity may be insufficient after renewal. Carefully consider the capacity when replacing the models.
- For the regenerative option, recalculate the regeneration capability, etc., and select the capacity. Prepare a regenerative option if required.
- The dynamic brakes provided with the replacement MR-J3-□A servo amplifier as a standard can be used, but the coasting amount may differ according to the dynamic brake's characteristics.
- Consult with Mitsubishi if the existing MR-H□A(N) servo amplifier or motor is a special part.
- Functions may be limited depending on the working conditions of existing devices.
- The analog torque limit command (-) TLAN signal cannot be used with the renewal kit.
- When using the renewal kit, the number of usable input signals is limited during the speed control mode.
- The MR-H option card function and communication function are not supported.

# MITSUBISHI ELECTRIC SYSTEM & SERVICE CO., LTD.

Contact : [osb.webmaster@melsc.jp](mailto:osb.webmaster@melsc.jp)

## Safety Precautions

- Before starting use, always read the "Instruction Manual" to ensure the products listed in this catalog are used properly and safely.
- This product has been manufactured for general industrial purposes. This product is not designed or manufactured to be used in equipment or systems in situations that can affect or endanger human life.
- When considering this product for operation in devices for nuclear energy, electric power, aerospace, medical or passenger transportation or in special applications please contact your nearest Mitsubishi sales representative.
- Although this product was manufactured under strict quality control conditions, it is strongly advised to install backup or fail-safe functions to forestall serious accidents when used in facilities where a breakdown of the product is likely to cause a serious accident.