

## Support from MR-J2 Super Series to MR-J4 Series Replacement.

### Supported models

- MR-J2S-A(1) (0.1 to 37kW)
- MR-J2S-A4 (0.6 to 55kW)
- MR-J2S-B(1) (0.1 to 37kW)
- MR-J2S-B4 (0.6 to 55kW)
- MR-J2S-CP (0.1 to 7kW)



MR-J2S  
↓  
MR-J4



### Features

- Complete upgrades in a short time by using existing wiring and mounting holes.
- The AC servo can be replaced independently, without replacing the host controller or SSCNET cable.
- Replacement of a single axis in a multi-axis system is possible.
- The MR-J2S motor can be controlled with the MR-J4 servo amplifier.

### Precautions for Replacement

- MR-J2 Series replacements are not supported.
- The initialization time after power ON differs for the MR-J2S servo amplifier and MR-J4 servo amplifier, so it may be necessary to change the program in existing system.  
(\* Pay special attention to the magnetic brake release time for the vertical axis. The vertical axis could drop.)
- The outline dimensions will be larger than the existing MR-J2S servo amplifier when using this renewal tool. Refer to the outline dimensions on the back page for details on the dimensions. Always confirm that there is sufficient space before selecting this tool.
- When making a secondary package replacement, the monitor output value (motor rotation speed) will differ from the existing amplifier because of a difference in the motor's maximum rotation speed. The program must be changed when using the monitor output with existing system.
- Note that even when this renewal tool is used, some MR-J2S servo functions may not be 100% compatible.
- Depending on the situation, it may be necessary to change the existing wiring or add a noise filter, etc. as a noise countermeasure when using the servo system controller and positioning module (model: A1SD75P, etc.).
- Refer to the Guide for Replacing MR-J2S/J2M Series with J4 Series "L (NA) 03093" issued by Mitsubishi Electric, and the "Guide for Replacing MELSERVO-J2S Series using the MR-J2S Renewal Tool (X903120701)" available on the Mitsubishi Electric System & Service web site for replacing the MR-J2S Series with the MR-J4 Series.

# Replacing MELSERVO-J2S Series with MELSERVO-J4 Series

The MR-J2S renewal tool is used to replace an existing MR-J2S Series amplifier with the MR-J4 Series amplifier. The renewal kit provides compatibility to existing installation dimensions and terminal blocks. The conversion cable is interchangeable allowing existing cables to be used with the replacement models.

## Use existing mounting holes to upgrade in a short time!

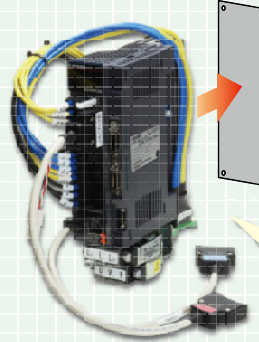
Before replacement

MR-J2S amplifier



After replacement

MR-J4 amplifier  
+  
renewal kits

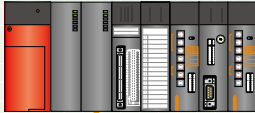


The existing mounting holes can be used, so there's no need for additional work!

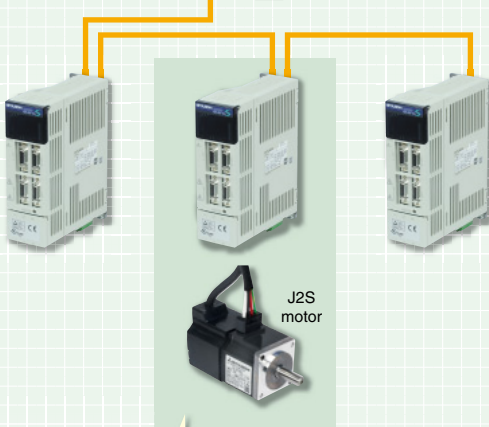
## Upgrade without replacing the host controller and existing wiring! Replace a single axis in a multi axis system!

Before replacement

Existing controller

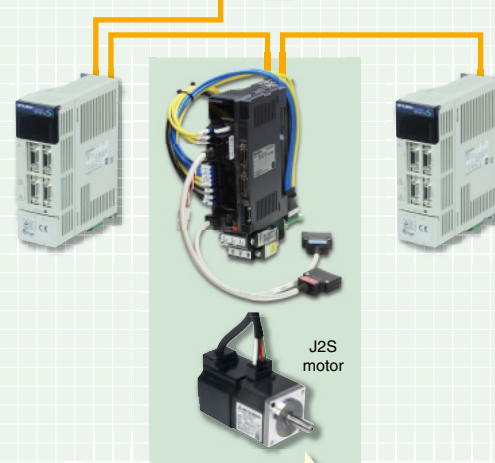
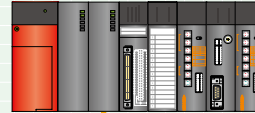


Existing wiring



After replacement

Existing controller



Just one axis in the multi-axis system failed!!

Replace just one axis without replacing the controller or wiring!!

## Drive the MR-J2S motor with the MR-J4 amplifier!

Before replacement

MR-J2S amplifier

Just the amplifier failed!!

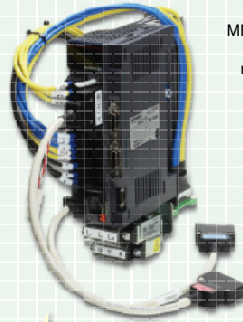


J2S motor



After replacement

MR-J4 amplifier  
+  
renewal kits



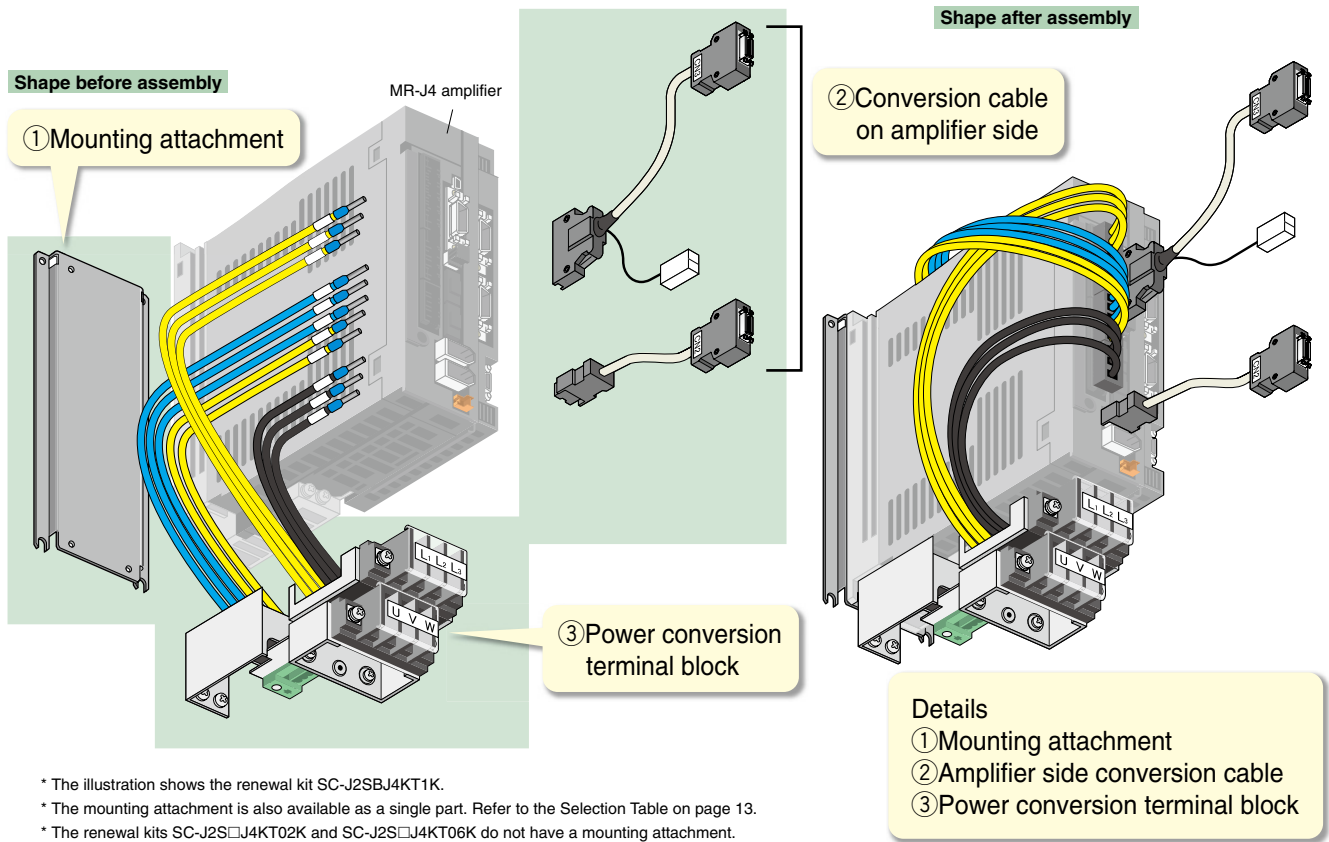
J2S motor



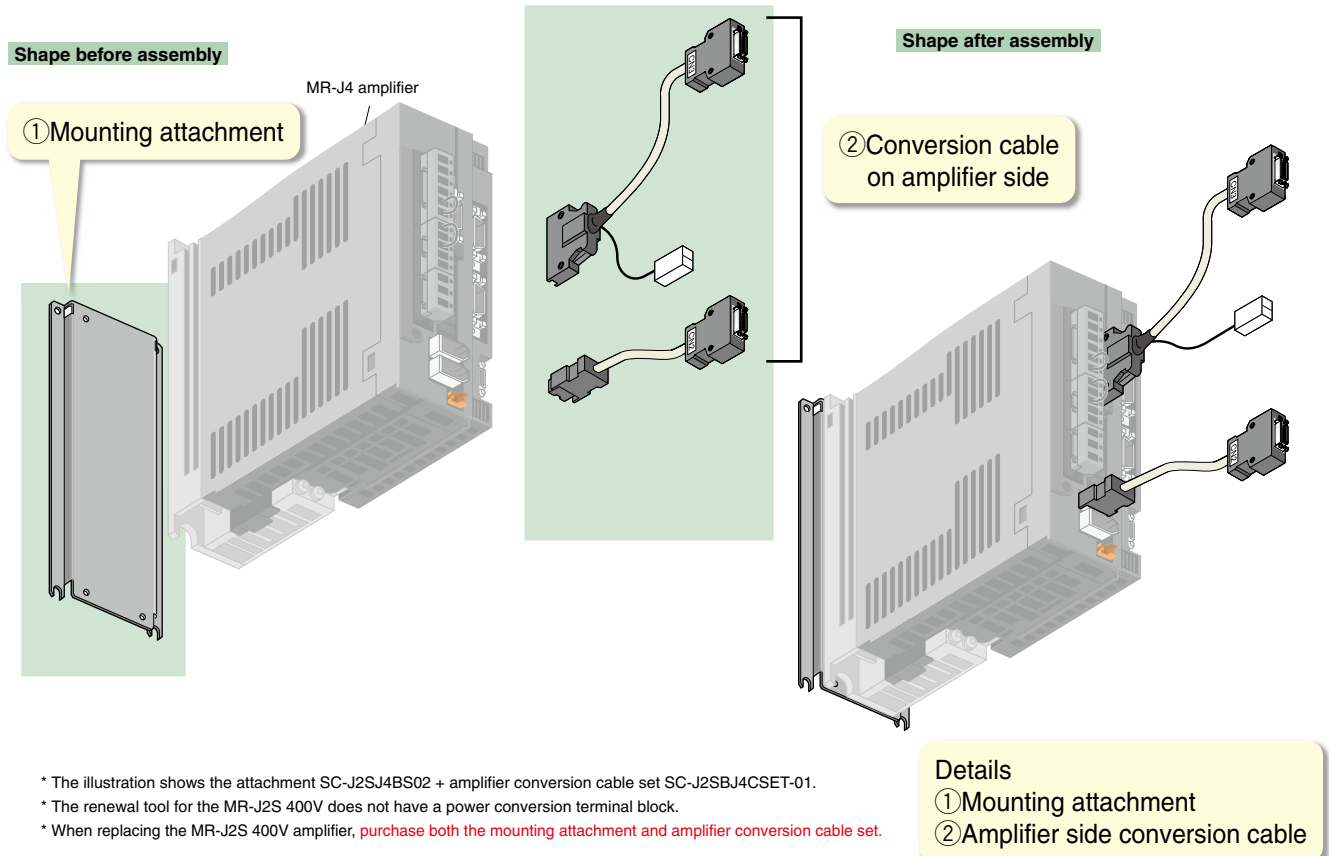
Use the existing motor and replace only the amplifier!!

## Renewal Kit Structure

### ● For MR-J2S 100V 200V AC amplifier



### ● For MR-J2S 400V AC amplifier



# Basic configuration (for 100V/200V AC)

# Type A (general-purpose interface) Type CP (built-in positioning function)

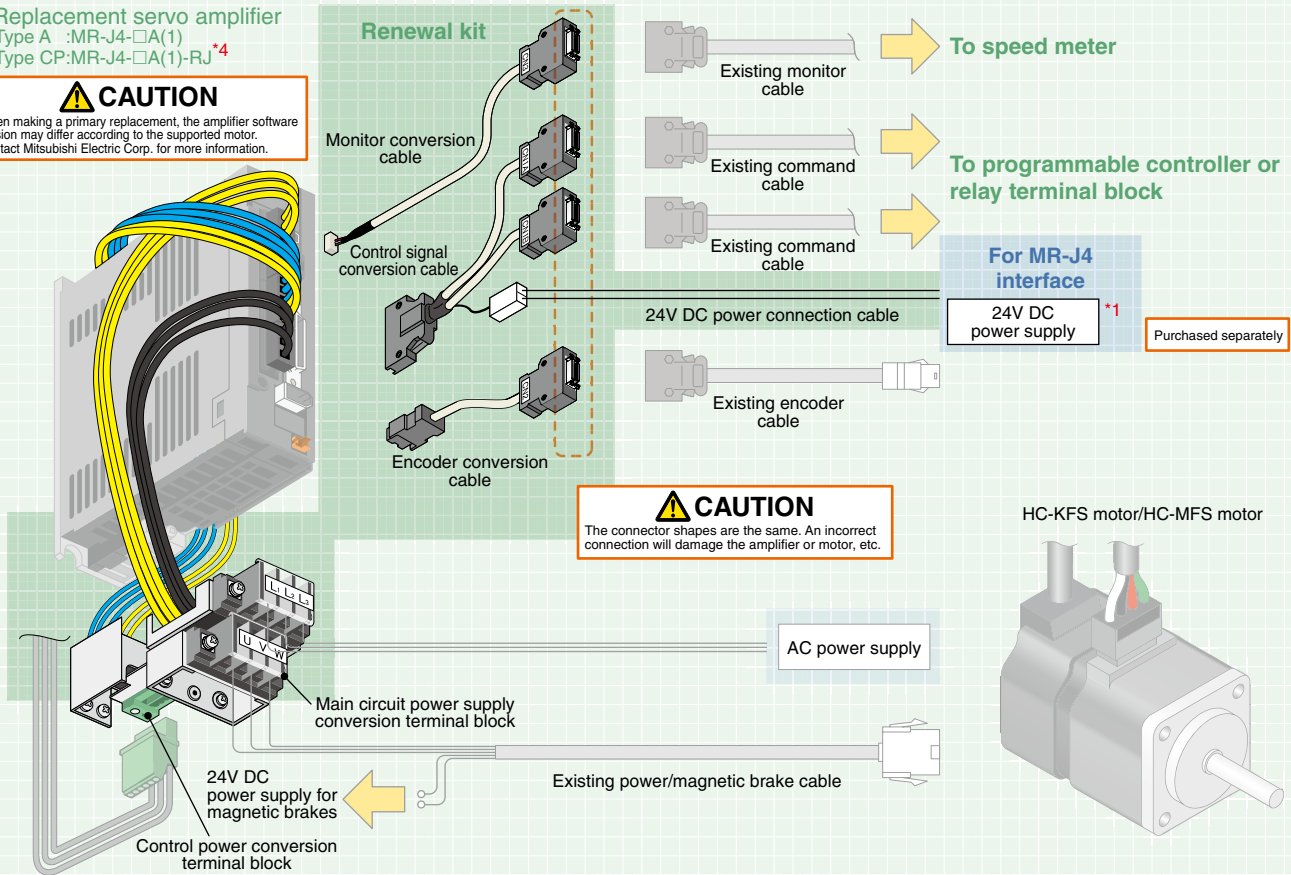
\*5

## Primary replacement (replacing only the servo amplifier)

- Replacement servo amplifier  
Type A :MR-J4-□A(1)  
Type CP:MR-J4-□A(1)-RJ\*4

### CAUTION

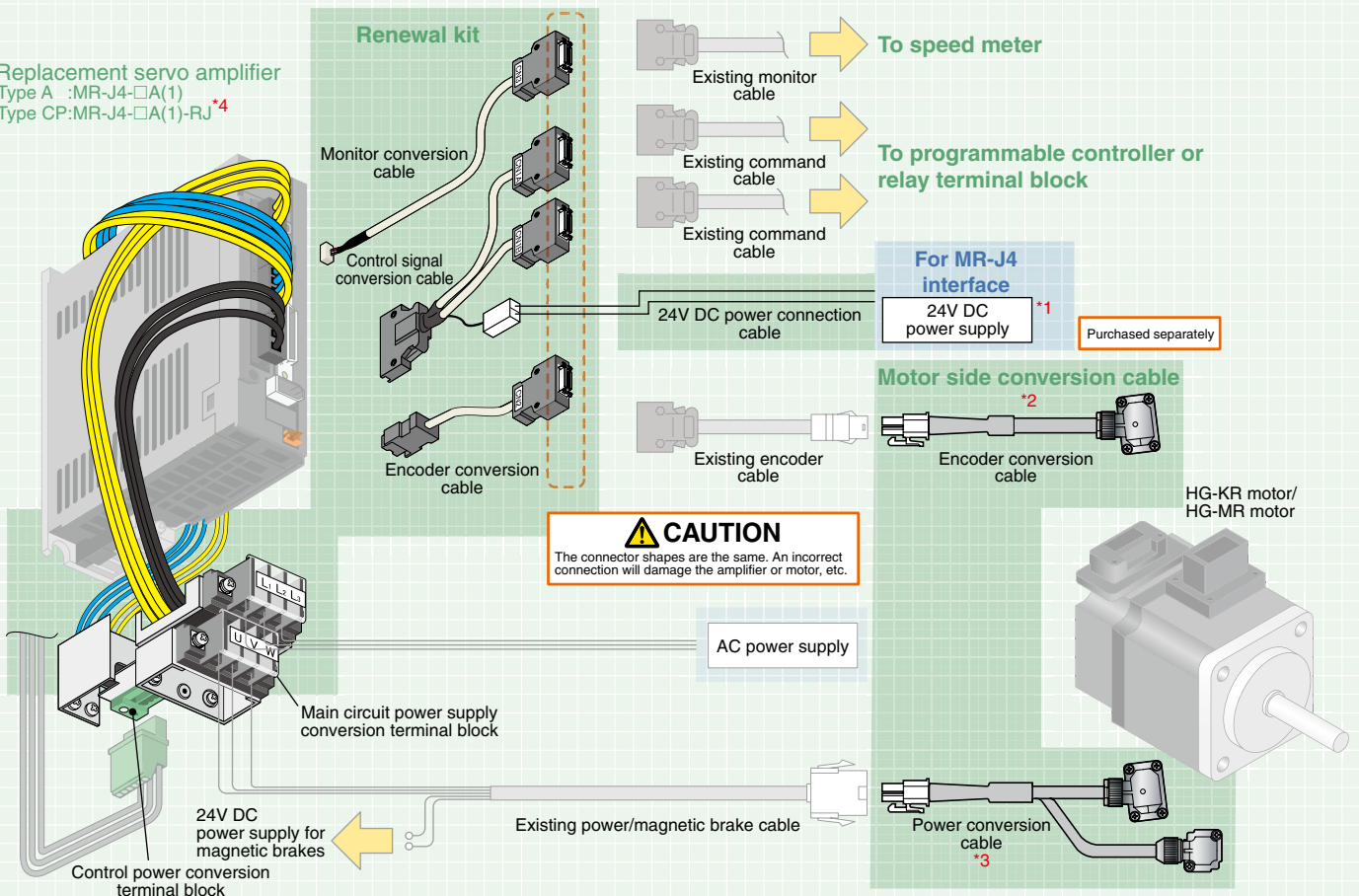
When making a primary replacement, the amplifier software version may differ according to the supported motor. Contact Mitsubishi Electric Corp. for more information.



## Secondary replacement (Replacing servo motor after replacing servo amplifier)

## Package replacement (Replacing servo amplifier and servo motor together)

- Replacement servo amplifier  
Type A :MR-J4-□A(1)  
Type CP:MR-J4-□A(1)-RJ\*4



\*1. A separate 24V DC (current capacity 80mA or more) is required for the interface when making the replacement. Refer to page 14 for recommended specifications. (Required only when a 24V DC power supply for the internal interface is used with the MR-J2S servo amplifier. Not required when 24V DC power supply for interface is supplied from an external source.)

\*2. Refer to the table on pages 7 and 9 for motor side conversion cables.

\*3. When replacing the HC-KFS, MFS motor with the HG-KR, MR motor, the magnetic brake cable is built into the power cable.

\*4. J2S-CP renewal is supported with software version B3 and higher.

\*5. When replacing the J2S 30kW or 37kW amplifier, select the mounting attachment and amplifier conversion cable set.

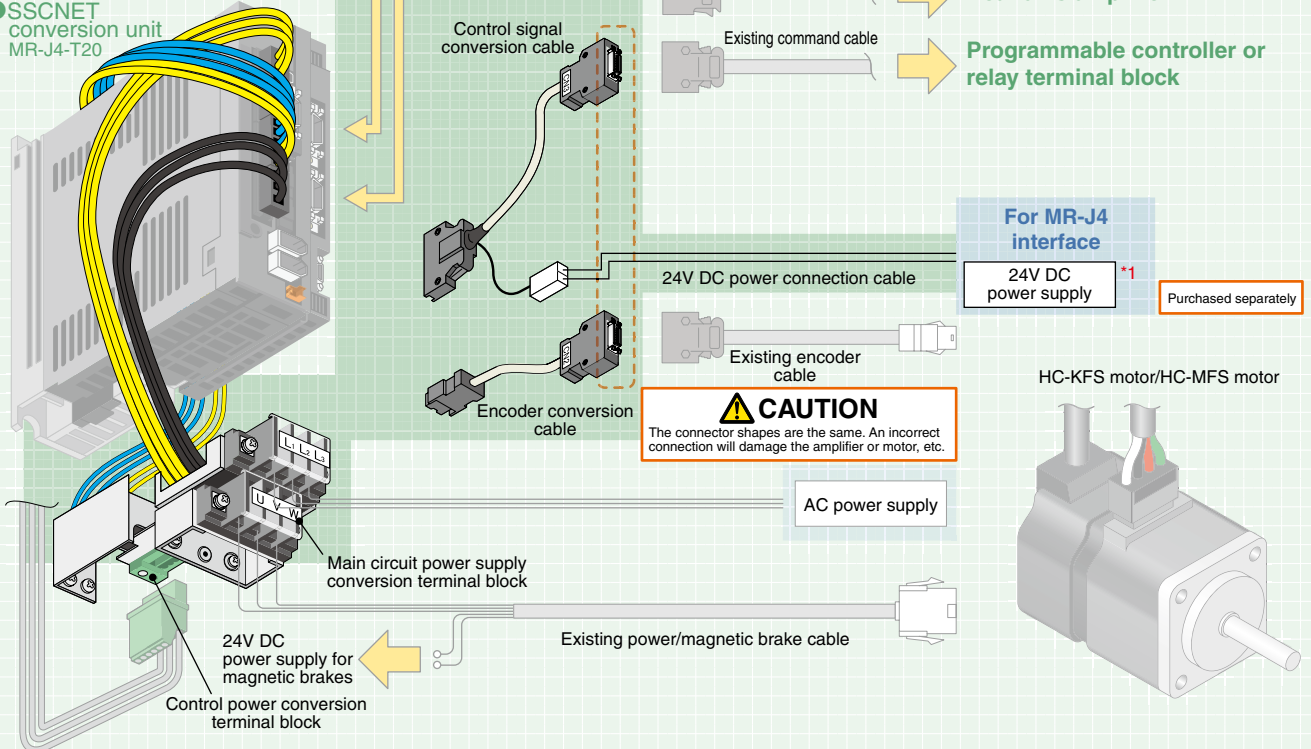
## Primary replacement (replacing only the servo amplifier)

- Replacement servo amplifier  
MR-J4-□B(1)-RJ020

### CAUTION

When making a primary replacement, the amplifier software version may differ according to the supported motor. Contact Mitsubishi Electric Corp. for more information.

- SSCNET conversion unit  
MR-J4-T20

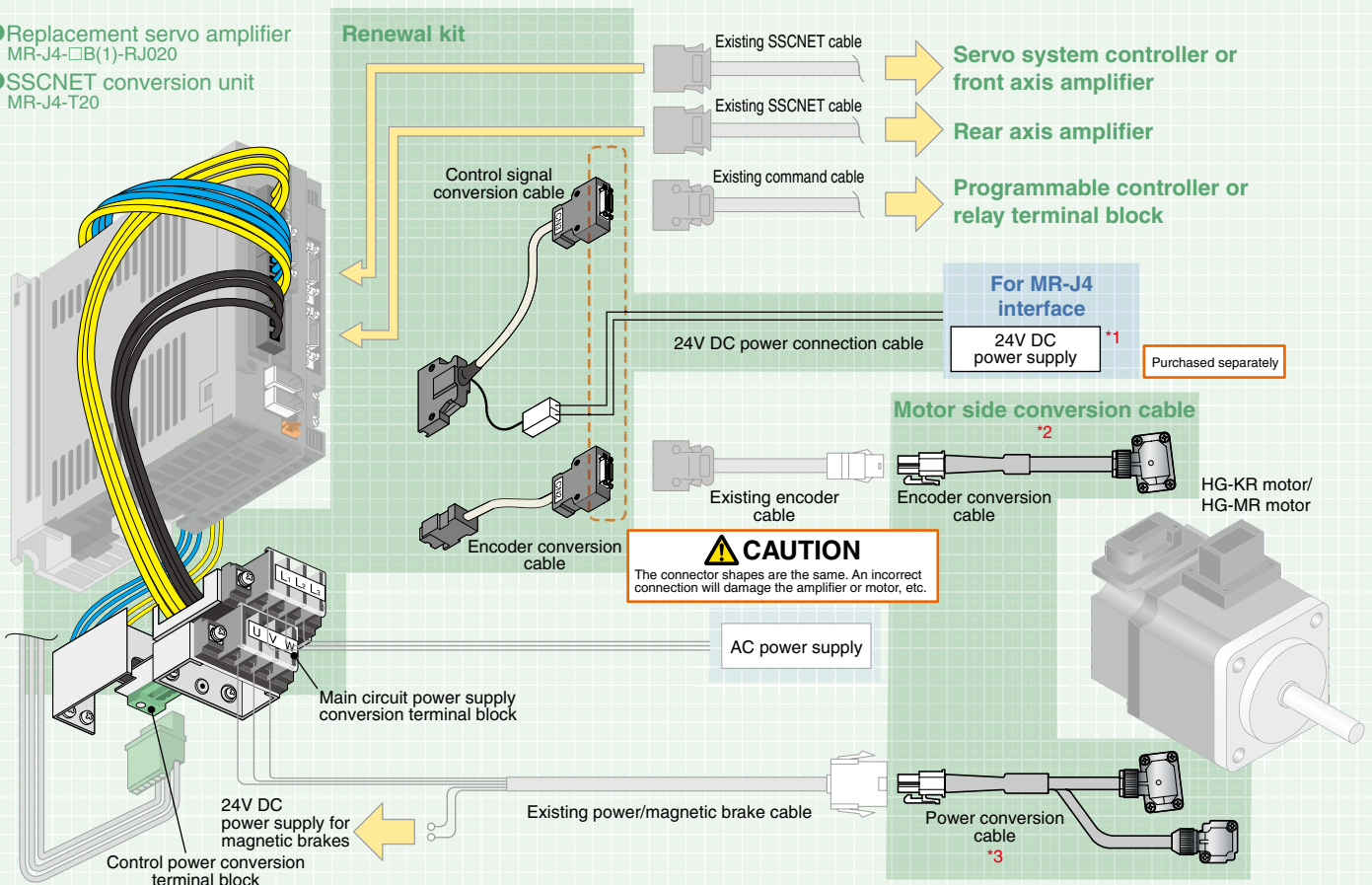


## Secondary replacement (Replacing servo motor after replacing servo amplifier)

## Package replacement (Replacing servo amplifier and servo motor together)

- Replacement servo amplifier  
MR-J4-□B(1)-RJ020

- SSCNET conversion unit  
MR-J4-T20



\*1. A separate 24V DC (current capacity 80mA or more) is required for the interface when making the replacement. Refer to page 14 for recommended specifications. (Required only when a 24V DC power supply for the internal interface is used with the MR-J2S servo amplifier. Not required when 24V DC power supply for interface is supplied from an external source.)

\*2. Refer to the table on page 8 for motor side conversion cables.

\*3. When replacing the HC-KFS, MFS motor with the HG-KR, MR motor, the magnetic brake cable is built into the power cable.

\*4. When replacing the J2S 30kW or 37kW amplifier, select the mounting attachment and amplifier conversion cable set.

# Basic configuration (for 400V AC)

## Type A (general-purpose interface)

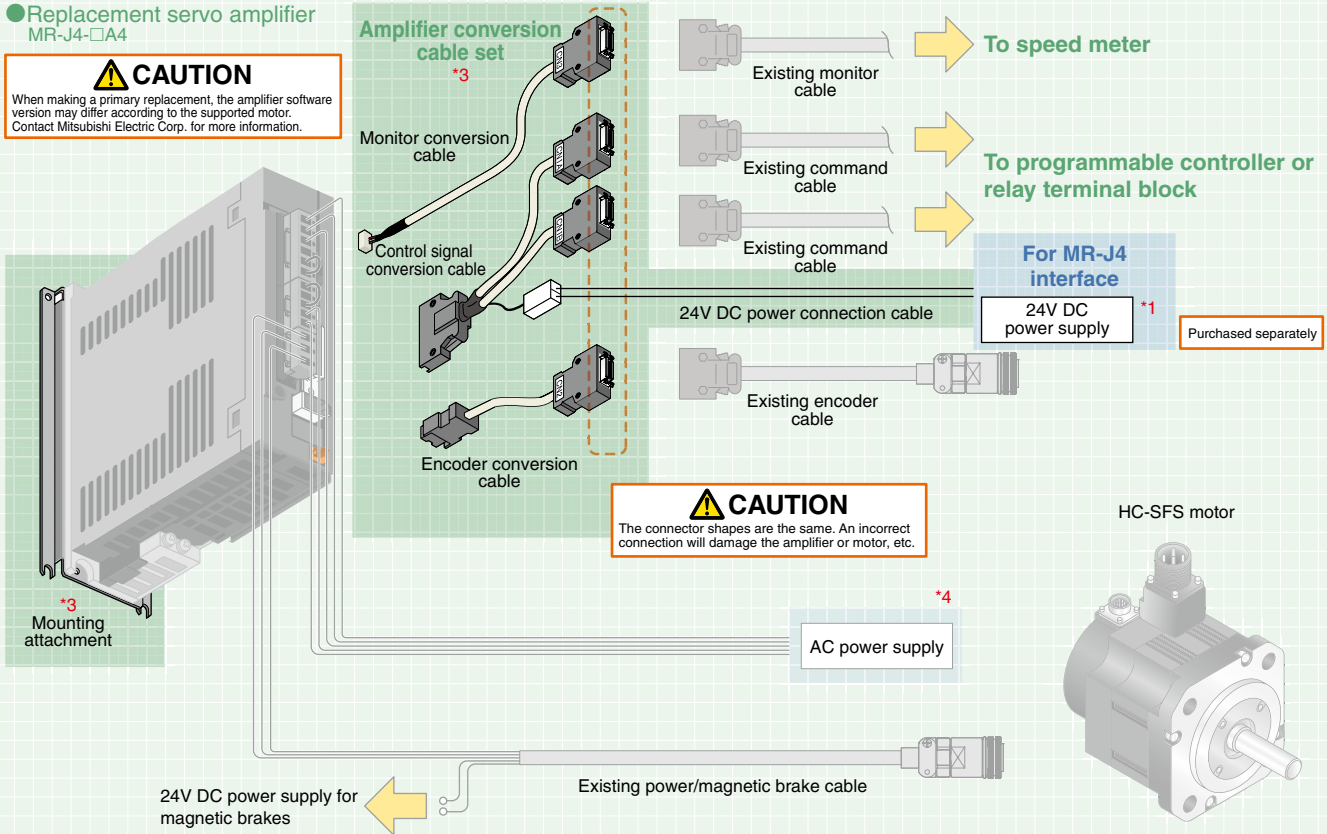
\*3, \*4

### Primary replacement (replacing only the servo amplifier)

- Replacement servo amplifier MR-J4-□A4

#### CAUTION

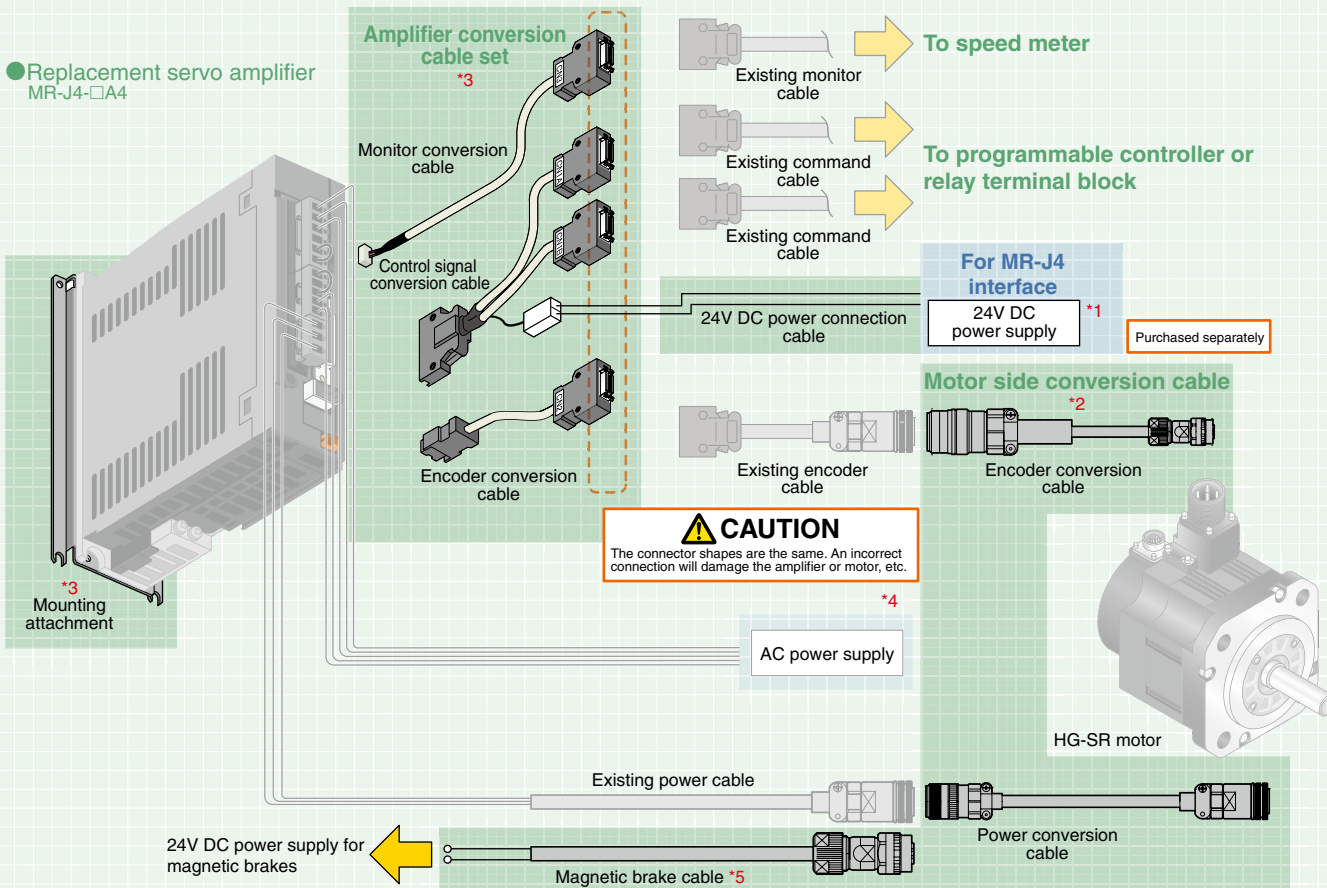
When making a primary replacement, the amplifier software version may differ according to the supported motor. Contact Mitsubishi Electric Corp. for more information.



### Secondary replacement (Replacing servo motor after replacing servo amplifier)

### Package replacement (Replacing servo amplifier and servo motor together)

- Replacement servo amplifier MR-J4-□A4



\*1. A separate 24V DC (current capacity 80mA or more) is required for the interface when making the replacement. Refer to page 14 for recommended specifications. (Required only when a 24V DC power supply for the internal interface is used with the MR-J2S servo amplifier. Not required when 24V DC power supply for interface is supplied from an external source.)

\*2. Refer to the table on page 7 for motor side conversion cables.

\*3. When replacing the JS2 400V amplifier, the mounting attachment and separate amplifier conversion cable set must be prepared. Refer to page 7 for details on making a selection.

\*4. The J2S 400V renewal kit does not include a main circuit power or control power conversion terminal block. Refer to the MR-J4 Servo Amplifier Technical Materials issued by Mitsubishi Electric Corp., for details on wiring.

\*5. When replacing the HC-SFS Series motor with brakes with secondary or package replacement, a magnetic brake cable must be newly connected. Use the Mitsubishi Electric System & Service motor magnetic brake cable (SC-BKC1CBL□M-L or SC-BKC1CBL□M-H).

# Basic configuration (for 400V AC)

## Type B (SSCNET interface)

\*3, \*4

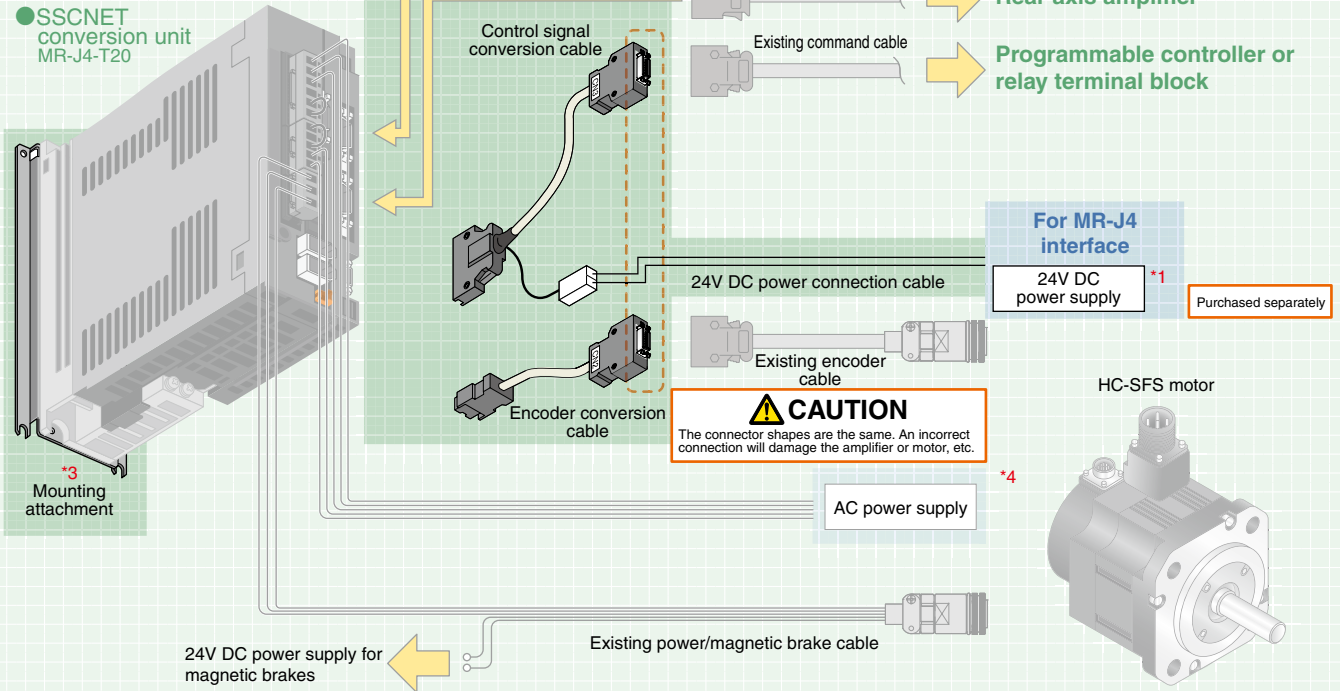
### Primary replacement (replacing only the servo amplifier)

- Replacement servo amplifier MR-J4-□B4-RJ020

#### CAUTION

When making a primary replacement, the amplifier software version may differ according to the supported motor. Contact Mitsubishi Electric Corp. for more information.

- SSCNET conversion unit MR-J4-T20

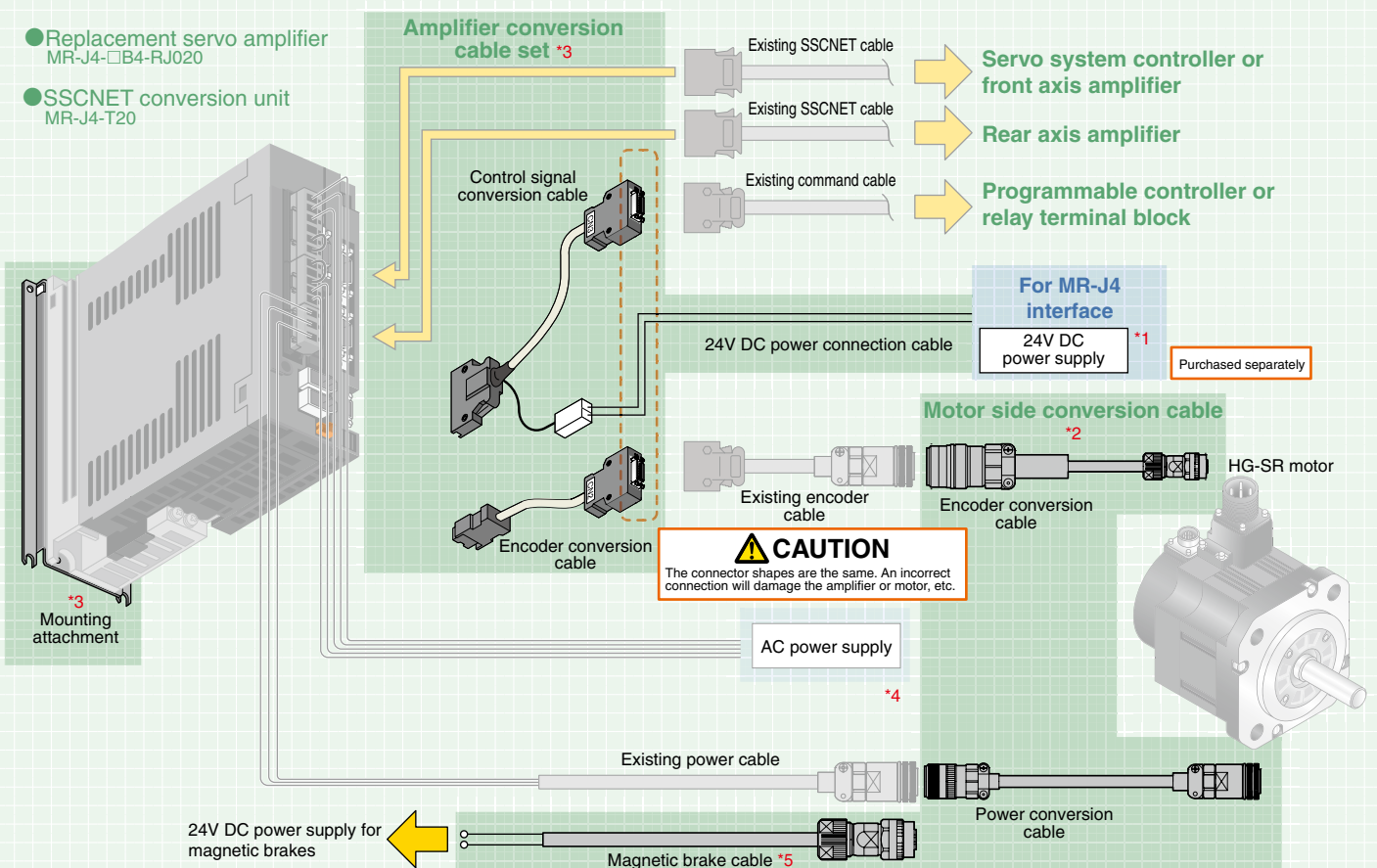


### Secondary replacement (Replacing servo motor after replacing servo amplifier)

### Package replacement (Replacing servo amplifier and servo motor together)

- Replacement servo amplifier MR-J4-□B4-RJ020

- SSCNET conversion unit MR-J4-T20



\*1. A separate 24V DC (current capacity 80mA or more) is required for the interface when making the replacement. Refer to page 14 for recommended specifications. (Required only when a 24V DC power supply for the internal interface is used with the MR-J2S servo amplifier. Not required when 24V DC power supply for interface is supplied from an external source.)

\*2. Refer to the table on page 8 for motor side conversion cables.

\*3. When replacing the JS2 400V amplifier, the mounting attachment and separate amplifier conversion cable set must be prepared. Refer to page 8 for details on making a selection.

\*4. The J2S 400V renewal kit does not include a main circuit power or control power conversion terminal block. Refer to the MR-J4 Servo Amplifier Technical Materials issued by Mitsubishi Electric Corp., for details on wiring.

\*5. When replacing the HC-SFS Series motor with brakes with secondary or package replacement, a magnetic brake cable must be newly connected. Use the Mitsubishi Electric System & Service motor magnetic brake cable (SC-BKC1CBL□M-L or SC-BKC1CBL□M-H).

# Renewal Replacement Combination Table

Primary replacement **Replacing only servo amplifier**
Secondary replacement **Replacing servo motor after replacing servo amplifier**
Package replacement **Replacing servo amplifier and servo motor together**

○: Compatible, △: Compatible with limited functions or conditions, ×: Incompatible

## Type A (100V/200V AC) (\*1)

| Existing model  |                   | Primary/package replacement model (*2, 3) |                   | Secondary replacement / package replacement model |               |   |   |                                 |
|---|-------------------|---|-------------------|---|---------------|---|---|---------------------------------|
| Servo amplifier model   | Servo motor model | Servo amplifier model (*4, 5)             | Renewal kit model | Servo motor model (*4)                            | Compatibility | Power conversion cable  | Motor side conversion cable model (*18) |                                 |
|   |                   |   |                   |   |               |   | Encoder conversion cable                | Brake conversion cable          |
| <b>[Small capacity, low inertia HC-KFS Series standard, with brakes] (B) indicates with brakes</b>        |                   |   |                   |   |               |   |   |                                 |
| MR-J2S-10A (1)  | HC-KFS053 (B)     | MR-J4-10A (1)                             | SC-J2SJ4KT02K     | HG-KR053 (B)                                      | △<br>(*6)     | Without brakes<br>SC-J2SJ4PW1C03M-■<br>With brakes<br>SC-J2SJ4PWBK1C03M-■ | SC-HAJ3ENM1C03M-■                       | Built-in power conversion cable |
|   | HC-KFS13 (B)      |   |                   | HG-KR13 (B)                                       |               |   |   |                                 |
| MR-J2S-20A (1)  | HC-KFS23 (B)      | MR-J4-20A (1)                             | HG-KR23 (B)       |   |               |   |   |                                 |
| MR-J2S-40A (1)  | HC-KFS43 (B)      | MR-J4-40A (1)                             | HG-KR43 (B)       |   |               |   |   |                                 |
| MR-J2S-70A  | HC-KFS73 (B)      | MR-J4-70A                                 | HG-KR73 (B)       |   |               |   |   |                                 |
| <b>[Small capacity, super-low inertia HC-MFS Series standard, with brakes] (B) indicates with brakes</b>  |                   |   |                   |   |               |   |   |                                 |
| MR-J2S-10A (1)  | HC-MFS053 (B)     | MR-J4-10A (1)                             | SC-J2SJ4KT02K     | HG-MR053 (B)                                      | ○             | Without brakes<br>SC-J2SJ4PW1C03M-■<br>With brakes<br>SC-J2SJ4PWBK1C03M-■ | SC-HAJ3ENM1C03M-■                       | Built-in power conversion cable |
|   | HC-MFS13 (B)      |   |                   | HG-MR13 (B)                                       |               |   |   |                                 |
| MR-J2S-20A (1)  | HC-MFS23 (B)      | MR-J4-20A (1)                             | HG-MR23 (B)       |   |               |   |   |                                 |
| MR-J2S-40A (1)  | HC-MFS43 (B)      | MR-J4-40A (1)                             | HG-MR43 (B)       |   |               |   |   |                                 |
| MR-J2S-70A  | HC-MFS73 (B)      | MR-J4-70A                                 | HG-MR73 (B)       |   |               |   |   |                                 |
| <b>[Medium capacity, medium inertia HC-SFS Series standard, with brakes] (B) indicates with brakes</b>    |                   |   |                   |   |               |   |   |                                 |
| MR-J2S-60A  | HC-SFS52 (B)      | MR-J4-60A                                 | SC-J2SJ4KT06K     | HG-SR52 (B)                                       | △<br>(*7)     | SC-SAJ3PW2KC1M-S2   | SC-HAJ3ENM3C1M                          | (*8)                            |
| MR-J2S-100A   | HC-SFS102 (B)     |   |                   | MR-J4-100A  |               |   |   |                                 |
| MR-J2S-200A   | HC-SFS152 (B)     | MR-J4-200A                                | SC-J2SJ4KT3K      | HG-SR152 (B)                                      |               |   |   |                                 |
|   | HC-SFS202 (B)     |   |                   | HG-SR202 (B)                                      |               |   |   |                                 |
| MR-J2S-350A   | HC-SFS352 (B)     | MR-J4-350A                                | HG-SR352 (B)      |   |               |   |   |                                 |
| MR-J2S-500A   | HC-SFS502 (B)     | MR-J4-500A                                | HG-SR502 (B)      |   |               |   |   |                                 |
| MR-J2S-700A   | HC-SFS702 (B)     | MR-J4-700A                                | HG-SR702 (B)      |   |               |   |   |                                 |
| <b>[Medium capacity, super-low inertia HC-RFS Series standard, with brakes] (B) indicates with brakes</b> |                   |   |                   |   |               |   |   |                                 |
| MR-J2S-200A   | HC-RFS103 (B)     | MR-J4-200A                                | SC-J2SJ4KT3K      | HG-RR103 (B)                                      | ○             | Existing cable can be used  | SC-HAJ3ENM3C1M                          | Existing cable can be used      |
|   | HC-RFS153 (B)     |   |                   | HG-RR153 (B)                                      |               |   |   |                                 |
| MR-J2S-350A   | HC-RFS203 (B)     | MR-J4-350A                                | HG-RR203 (B)      |   |               |   |   |                                 |
| MR-J2S-500A   | HC-RFS353 (B)     | MR-J4-500A                                | SC-J2SJ4KT5K      | HG-RR353 (B)                                      |               |   |   |                                 |
|   | HC-RFS503 (B)     |   |                   | HG-RR503 (B)                                      |               |   |   |                                 |
| <b>[Medium capacity, flat type HC-UFS Series standard, with brakes] (B) indicates with brakes</b>         |                   |   |                   |   |               |   |   |                                 |
| MR-J2S-70A  | HC-UFS72 (B)      | MR-J4-70A                                 | SC-J2SJ4KT1K      | HG-UR72 (B)                                       | ○             | Existing cable can be used  | SC-HAJ3ENM3C1M                          | Existing cable can be used      |
| MR-J2S-200A   | HC-UFS152 (B)     |   |                   | MR-J4-200A  |               |   |   |                                 |
| MR-J2S-350A   | HC-UFS202 (B)     | MR-J4-350A                                | HG-UR202 (B)      |   |               |   |   |                                 |
| MR-J2S-500A   | HC-UFS352 (B)     | MR-J4-500A                                | SC-J2SJ4KT5K      | HG-UR352 (B)                                      |               |   |   |                                 |
|   | HC-UFS502 (B)     |   |                   | HG-UR502 (B)                                      |               |   |   |                                 |

| Existing model   |                   | Primary replacement model (*2) |                                | Secondary replacement / package replacement model |                        |               |                       |   |                            |  |
|--|-------------------|--------------------------------|--------------------------------|---|------------------------|---------------|-----------------------|---|----------------------------|--|
| Servo amplifier model  | Servo motor model | Servo amplifier model (*4, 5)  | Renewal kit model              | Servo amplifier model (*4)                        | Servo motor model (*4) | Compatibility | Renewal kit model     | Motor side conversion cable model (*18) |                            |  |
|  |                   |                                |                                |   |                        |               |                       | Power conversion cable                  | Encoder conversion cable   | Brake conversion cable / cooling fan conversion cable                    |
| <b>[Medium to large capacity, low inertia HA-LFS 2000/min Series, standard, with brakes] (B) indicates with brakes</b> |                   |                                |                                |   |                        |               |                       |   |                            |  |
| MR-J2S-500A  | HA-LFS502         | MR-J4-500A                     | SC-J2SJ4KT5K                   | MR-J4-500A  | HG-SR502               | ×<br>(*9)     | SC-J2SJ4KT5K          | SC-HAJ3PW1C1M                           | SC-HAJ3ENM3C1M             | Existing cable can be used   |
| MR-J2S-700A  | HA-LFS702         |                                |                                | MR-J4-700A  | HG-SR702               |               | SC-J2SJ4KT7K          |   |                            |  |
| MR-J2S-11KA  | HA-LFS11K2(B)     | MR-J4-11KA                     | SC-J2SJ4KT15K                  | MR-J4-11KA  | HG-JR11K1M(B)          |               | SC-J2SJ4KT15K         | SC-J2SJ4PW3C1M-■                        | Existing cable can be used | Brake cable:<br>Existing cable can be used<br>Cooling fan cable<br>(*11) |
| MR-J2S-15KA  | HA-LFS15K2(B)     | MR-J4-15KA (*12)               | SC-J2SJ4KT15K                  | MR-J4-11KA (*12)                                  | HG-JR11K1M(B)          |               | SC-J2SJ4CSET-02 (*13) | SC-J2SJ4BS09 + SC-J2SJ4CSET-02          |                            |  |
| MR-J2S-22KA  | HA-LFS22K2(B)     | MR-J4-22KA (*12)               | SC-J2SJ4KT22K                  | MR-J4-15KA (*12)                                  | HG-JR15K1M(B)          |               |                       |   | MR-J4-22KA (*12)           | HG-JR22K1M   |
| MR-J2S-30KA  | HA-LFS30K2        | MR-J4-DU30KA (*12, 15)         | SC-J2SJ4BS09 + SC-J2SJ4CSET-02 | MR-J4-30DU-A (*12, 15)                            | HG-JR30K1M             |               |                       |   |                            |  |
| MR-J2S-37KA  | HA-LFS37K2        | MR-J4-DU37KA (*12, 15)         |                                |   |                        |               |                       |   |                            |  |

## Type A (400V AC)

| Existing model   |                   | Primary/package replacement model (*2, 3) |                                | Secondary replacement / package replacement model |               |                        |   |                        |
|--|-------------------|---|--------------------------------|---|---------------|------------------------|---|------------------------|
| Servo amplifier model  | Servo motor model | Servo amplifier model (*4, 5)             | Renewal kit model              | Servo motor model (*4)                            | Compatibility | Power conversion cable | Motor side conversion cable model (*18) |                        |
|  |                   |   |                                |   |               |                        | Encoder conversion cable                | Brake conversion cable |
| <b>[Medium capacity, medium inertia HC-SFS Series standard, with brakes] (B) indicates with brakes</b> |                   |   |                                |   |               |                        |   |                        |
| MR-J2S-60A4  | HC-SFS524(B)      | MR-J4-60A4                                | SC-J2SJ4BS02 + SC-J2SJ4CSET-01 | HG-SR524(B)                                       | △<br>(*7)     | SC-SAJ3PW2KC1M-S2      | SC-HAJ3ENM3C1M                          | (*8)                   |
| MR-J2S-100A4   | HC-SFS1024(B)     |   |                                | MR-J4-100A4                                       |               |                        |   |                        |
| MR-J2S-200A4   | HC-SFS1524(B)     | MR-J4-200A4                               | SC-J2SJ4BS03 + SC-J2SJ4CSET-01 | HG-SR1524(B)                                      |               |                        |   |                        |
|  | HC-SFS2024(B)     |   |                                | HG-SR2024(B)                                      |               |                        |   |                        |
| MR-J2S-350A4   | HC-SFS3524(B)     | MR-J4-350A4                               | SC-J2SJ4BS04 + SC-J2SJ4CSET-01 | HG-SR3524(B)                                      |               |                        |   |                        |
| MR-J2S-500A4   | HC-SFS5024(B)     | MR-J4-500A4                               | SC-J2SJ4CSET-01 (*17)          | HG-SR5024(B)                                      |               |                        |   |                        |
| MR-J2S-700A4   | HC-SFS7024(B)     | MR-J4-700A4                               | SC-J2SJ4BS05 + SC-J2SJ4CSET-01 | HG-SR7024(B)                                      |               |                        |   |                        |

| Existing model   |                   | Primary replacement model (*2) |                                | Secondary replacement / package replacement model |                        |               |                                |   |   |  |
|--|-------------------|--------------------------------|--------------------------------|---|------------------------|---------------|--------------------------------|---|---|--|
| Servo amplifier model  | Servo motor model | Servo amplifier model (*4, 5)  | Renewal kit model              | Servo amplifier model (*4)                        | Servo motor model (*4) | Compatibility | Renewal kit model              | Motor side conversion cable model (*18) |   |  |
|  |                   |                                |                                |   |                        |               |                                | Power conversion cable                  | Encoder conversion cable                        | Brake conversion cable / cooling fan conversion cable                    |
| <b>[Medium to large capacity, low inertia HA-LFS 2000/min Series, standard, with brakes] (B) indicates with brakes</b> |                   |                                |                                |   |                        |               |                                |   |   |  |
| MR-J2S-11KA4   | HA-LFS11K24(B)    | MR-J4-11KA4                    | SC-J2SJ4BS06 + SC-J2SJ4CSET-02 | MR-J4-11KA4                                       | HG-JR11K1M4(B)         | ×<br>(*9)     | SC-J2SJ4BS06 + SC-J2SJ4CSET-02 | SC-J2SJ4PW3C1M-■                        | Existing cable can be used                      | Brake cable:<br>Existing cable can be used<br>Cooling fan cable<br>(*11) |
| MR-J2S-15KA4   | HA-LFS15K24(B)    |                                |                                | MR-J4-11KA4 (*12)                                 | MR-J4-11KA4 (*12)      |               | HG-JR11K1M4(B)                 |   |   |  |
| MR-J2S-22KA4   | HA-LFS22K24(B)    | MR-J4-22KA4 (*12)              | SC-J2SJ4BS07 + SC-J2SJ4CSET-02 | MR-J4-15KA4 (*12)                                 | HG-JR15K1M4(B)         |               | SC-J2SJ4CSET-02 (*13)          | SC-J2SJ4BS09 + SC-J2SJ4CSET-02          |   |  |
|  |                   |                                |                                | MR-J4-DU30KA4 (*12, 16)                           | MR-J4-22KA4 (*12)      |               |                                |   | HG-JR22K1M4                                     |  |
| MR-J2S-30KA4   | HA-LFS30K24       | MR-J4-DU30KA4 (*12, 16)        | SC-J2SJ4BS08 + SC-J2SJ4CSET-02 | MR-J4-22KA4 (*12)                                 | HG-JR22K1M4            |               | (*10)                          | (*14)                                   | Cooling fan conversion cable<br>SC-J2SJ4FAN1C1M |  |
| MR-J2S-37KA4   | HA-LFS37K24       | MR-J4-DU37KA4 (*12, 16)        | SC-J2SJ4BS09 + SC-J2SJ4CSET-02 | MR-J4-DU30KA4 (*12, 16)                           | HG-JR30K1M4            |               |                                |   |   |  |
| MR-J2S-45KA4   | HA-LFS45K24       | MR-J4-DU45KA4 (*12, 16)        |                                | MR-J4-DU37KA4 (*12, 16)                           | HG-JR37K1M4            |               |                                |   |   |  |
| MR-J2S-55KA4   | HA-LFS55K24       | MR-J4-DU55KA4 (*12, 16)        |                                | MR-J4-DU45KA4 (*12, 16)                           | HG-JR45K1M4            |               |                                |   |   |  |

Refer to page 9 for the applicable precautions.



# Renewal Replacement Combination Table

Primary replacement **Replacing only servo amplifier**
Secondary replacement **Replacing servo motor after replacing servo amplifier**
Package replacement **Replacing servo amplifier and servo motor together**

○: Compatible, △: Compatible with limited functions or conditions, ×: Incompatible

## Type B (100V/200V AC) <sup>(\*)1</sup>

| Existing model   |                              | Primary/package replacement model <sup>(*)2, (*)3</sup> |  |                   | Secondary replacement / package replacement model |               |                        |   |                        |                                   |
|--|------------------------------|---|--|-------------------|---|---------------|------------------------|---|------------------------|-----------------------------------|
| Servo amplifier model  | Servo motor model            | Servo amplifier model <sup>(*)4, (*)5</sup>             | SSCNET conversion unit model <sup>(*)4</sup> | Renewal kit model | Servo motor model <sup>(*)4</sup>                 | Compatibility | Power conversion cable | Encoder conversion cable  | Brake conversion cable |                                   |
| [Small capacity, low inertia HC-KFS Series standard, with brakes] (B) indicates with brakes        |                              |   |  |                   |   |               |                        |   |                        |                                   |
| MR-J2S-10B(1)  | HC-KFS053(B)<br>HC-KFS13(B)  | MR-J4-10B(1)-RJ020                                      |  | MR-J4-T20         | SC-J2SBJ4KT02K                                    |               |                        | Without brakes<br>SC-J2SJ4PW1C03M-■<br>With brakes<br>SC-J2SJ4PWBK1C03M-■ | SC-HAJ3ENM1C03M-■      | Built-into power conversion cable |
| MR-J2S-20B(1)  | HC-KFS23(B)                  | MR-J4-20B(1)-RJ020                                      |  | MR-J4-T20         | SC-J2SBJ4KT06K                                    | △<br>(*)6     |                        |   |                        |                                   |
| MR-J2S-40B(1)  | HC-KFS43(B)                  | MR-J4-40B(1)-RJ020                                      |  |                   | SC-J2SBJ4KT1K                                     |               |                        |   |                        |                                   |
| MR-J2S-70B   | HC-KFS73(B)                  | MR-J4-70B-RJ020   |  |                   |   |               |                        |   |                        |                                   |
| [Small capacity, super-low inertia HC-MFS Series standard, with brakes] (B) indicates with brakes  |                              |   |  |                   |   |               |                        |   |                        |                                   |
| MR-J2S-10B(1)  | HC-MFS053(B)<br>HC-MFS13(B)  | MR-J4-10B(1)-RJ020                                      |  | MR-J4-T20         | SC-J2SBJ4KT02K                                    |               |                        | Without brakes<br>SC-J2SJ4PW1C03M-■<br>With brakes<br>SC-J2SJ4PWBK1C03M-■ | SC-HAJ3ENM1C03M-■      | Built-into power conversion cable |
| MR-J2S-20B(1)  | HC-MFS23(B)                  | MR-J4-20B(1)-RJ020                                      |  | MR-J4-T20         | SC-J2SBJ4KT06K                                    | ○             |                        |   |                        |                                   |
| MR-J2S-40B(1)  | HC-MFS43(B)                  | MR-J4-40B(1)-RJ020                                      |  |                   | SC-J2SBJ4KT1K                                     |               |                        |   |                        |                                   |
| MR-J2S-70B   | HC-MFS73(B)                  | MR-J4-70B-RJ020   |  |                   |   |               |                        |   |                        |                                   |
| [Medium capacity, medium inertia HC-SFS Series standard, with brakes] (B) indicates with brakes    |                              |   |  |                   |   |               |                        |   |                        |                                   |
| MR-J2S-60B   | HC-SFS52(B)                  | MR-J4-60B-RJ020   |  | MR-J4-T20         | SC-J2SBJ4KT06K                                    |               |                        | SC-SAJ3PW2KC1M-S2   | SC-HAJ3ENM3C1M         | (*)8                              |
| MR-J2S-100B  | HC-SFS102(B)                 | MR-J4-100B-RJ020  |  |                   | SC-J2SBJ4KT1K                                     |               |                        |   |                        |                                   |
| MR-J2S-200B  | HC-SFS152(B)<br>HC-SFS202(B) | MR-J4-200B-RJ020  |  |                   | SC-J2SBJ4KT3K                                     | △<br>(*)7     |                        | SC-HAJ3PW1C1M   |                        |                                   |
| MR-J2S-350B  | HC-SFS352(B)                 | MR-J4-350B-RJ020  |  |                   | SC-J2SBJ4KT5K                                     |               |                        |   |                        |                                   |
| MR-J2S-500B  | HC-SFS502(B)                 | MR-J4-500B-RJ020  |  |                   | SC-J2SBJ4KT7K                                     |               |                        | Existing cable can be used  |                        |                                   |
| MR-J2S-700B  | HC-SFS702(B)                 | MR-J4-700B-RJ020  |  |                   |   |               |                        |   |                        |                                   |
| [Medium capacity, super-low inertia HC-RFS Series standard, with brakes] (B) indicates with brakes |                              |   |  |                   |   |               |                        |   |                        |                                   |
| MR-J2S-200B  | HC-RFS103(B)<br>HC-RFS153(B) | MR-J4-200B-RJ020  |  | MR-J4-T20         | SC-J2SBJ4KT3K                                     |               | ○                      | Existing cable can be used  | SC-HAJ3ENM3C1M         | Existing cable can be used        |
| MR-J2S-350B  | HC-RFS203(B)                 | MR-J4-350B-RJ020  |  |                   | SC-J2SBJ4KT5K                                     |               |                        |   |                        |                                   |
| MR-J2S-500B  | HC-RFS353(B)<br>HC-RFS503(B) | MR-J4-500B-RJ020  |  |                   |   |               |                        |   |                        |                                   |
| [Medium capacity, flat type HC-UFS Series standard, with brakes] (B) indicates with brakes         |                              |   |  |                   |   |               |                        |   |                        |                                   |
| MR-J2S-70B   | HC-UFS72(B)                  | MR-J4-70B-RJ020   |  | MR-J4-T20         | SC-J2SBJ4KT1K                                     |               | ○                      | Existing cable can be used  | SC-HAJ3ENM3C1M         | Existing cable can be used        |
| MR-J2S-200B  | HC-UFS152(B)                 | MR-J4-200B-RJ020  |  |                   | SC-J2SBJ4KT3K                                     |               |                        |   |                        |                                   |
| MR-J2S-350B  | HC-UFS202(B)                 | MR-J4-350B-RJ020  |  |                   | SC-J2SBJ4KT5K                                     |               |                        |   |                        |                                   |
| MR-J2S-500B  | HC-UFS352(B)<br>HC-UFS502(B) | MR-J4-500B-RJ020  |  |                   |   |               |                        |   |                        |                                   |

| Existing model   |                   | Primary replacement model <sup>(*)2</sup>   |  |                   | Secondary replacement / package replacement model |  |                                   |               |                                 |  |                          |   |               |                |                            |                            |   |
|--|-------------------|---|--|-------------------|---|--|-----------------------------------|---------------|---------------------------------|--|--------------------------|---|---------------|----------------|----------------------------|----------------------------|---|
| Servo amplifier model  | Servo motor model | Servo amplifier model <sup>(*)4, (*)5</sup> | SSCNET conversion unit model <sup>(*)4</sup> | Renewal kit model | Servo amplifier model <sup>(*)4</sup>             | SSCNET conversion unit model <sup>(*)4</sup> | Servo motor model <sup>(*)4</sup> | Compatibility | Renewal kit model               | Motor side conversion cable model <sup>(*)18</sup> |                          |   |               |                |                            |                            |   |
|  |                   |   |  |                   |   |  |                                   |               |                                 | Power conversion cable                             | Encoder conversion cable | Brake conversion cable / cooling fan conversion cable |               |                |                            |                            |   |
| [Medium to large capacity, low inertia HA-LFS 2000r/min Series, standard, with brakes] (B) indicates with brakes |                   |   |  |                   |   |  |                                   |               |                                 |  |                          |   |               |                |                            |                            |   |
| MR-J2S-500B  | HA-LFS502         | MR-J4-500B-RJ020                            |  | MR-J4-T20         | SC-J2SBJ4KT5K                                     |  | MR-J4-500B-RJ020                  |               | MR-J4-T20                       | HG-SR502   | ×<br>(*)9                | SC-J2SBJ4CSET-02<br>(*)13                             | SC-HAJ3PW1C1M | SC-HAJ3ENM3C1M | Existing cable can be used | Existing cable can be used | Brake cable: Existing cable can be used<br>Cooling fan cable<br>(*)11 |
| MR-J2S-700B  | HA-LFS702         | MR-J4-700B-RJ020                            |  |                   | SC-J2SBJ4KT7K                                     |  | MR-J4-700B-RJ020                  |               |                                 | HG-SR702   |                          |   |               |                |                            |                            |   |
| MR-J2S-11KB  | HA-LFS11K2(B)     | MR-J4-11KB-RJ020                            |  |                   | SC-J2SBJ4KT15K                                    |  | MR-J4-11KB-RJ020                  |               |                                 | HG-JR11K1M(B)<br>(*)6                              |                          |   |               |                |                            |                            |   |
| MR-J2S-15KB  | HA-LFS15K2(B)     | MR-J4-15KB-RJ020<br>(*)12                   |  |                   | SC-J2SBJ4KT15K                                    |  | MR-J4-15KB-RJ020<br>(*)12         |               |                                 | HG-JR15K1M(B)                                      |                          |   |               |                |                            |                            |   |
| MR-J2S-22KB  | HA-LFS22K2(B)     | MR-J4-22KB-RJ020<br>(*)12                   |  |                   | SC-J2SBJ4KT22K                                    |  | MR-J4-22KB-RJ020<br>(*)12         |               |                                 | HG-JR22K1M   |                          |   |               |                |                            |                            |   |
| MR-J2S-30KB  | HA-LFS30K2        | MR-J4-DU30KB-RJ020<br>(*)12, (*)15          |  |                   | SC-J2SJ4BS09 + SC-J2SBJ4CSET-02                   |  | MR-J4-22KB-RJ020<br>(*)12         |               |                                 | HG-JR30K1M   |                          |   |               |                |                            |                            |   |
| MR-J2S-37KB  | HA-LFS37K2        | MR-J4-DU37KB-RJ020<br>(*)12, (*)15          |  |                   |   | MR-J4-DU30KB-RJ020<br>(*)12, (*)15           |                                   |               | SC-J2SJ4BS09 + SC-J2SBJ4CSET-02 | (*)10  | (*)14                    |   |               |                |                            |                            |   |

## Type B (400V AC)

| Existing model  |                                | Primary/package replacement model <sup>(*)2, (*)3</sup> |  |                   | Secondary replacement / package replacement model |               |                        |                          |                        |      |
|---|--------------------------------|---|--|-------------------|---|---------------|------------------------|--------------------------|------------------------|------|
| Servo amplifier model   | Servo motor model              | Servo amplifier model <sup>(*)4, (*)5</sup>             | SSCNET conversion unit model <sup>(*)4</sup> | Renewal kit model | Servo motor model <sup>(*)4</sup>                 | Compatibility | Power conversion cable | Encoder conversion cable | Brake conversion cable |      |
| [Medium capacity, medium inertia HC-SFS Series standard, with brakes] (B) indicates with brakes |                                |   |  |                   |   |               |                        |                          |                        |      |
| MR-J2S-60B4   | HC-SFS524(B)                   | MR-J4-60B4-RJ020  |  | MR-J4-T20         | SC-J2SJ4BS02 + SC-J2SBJ4CSET-01                   |               | △<br>(*)7              | SC-SAJ3PW2KC1M-S2        | SC-HAJ3ENM3C1M         | (*)8 |
| MR-J2S-100B4  | HC-SFS1024(B)                  | MR-J4-100B4-RJ020                                       |  |                   | SC-J2SJ4BS03                                      |               |                        |                          |                        |      |
| MR-J2S-200B4  | HC-SFS1524(B)<br>HC-SFS2024(B) | MR-J4-200B4-RJ020                                       |  |                   | SC-J2SBJ4CSET-01                                  |               |                        |                          |                        |      |
| MR-J2S-350B4  | HC-SFS3524(B)                  | MR-J4-350B4-RJ020                                       |  |                   | SC-J2SJ4BS04 + SC-J2SBJ4CSET-01                   |               |                        |                          |                        |      |
| MR-J2S-500B4  | HC-SFS5024(B)                  | MR-J4-500B4-RJ020                                       |  |                   | SC-J2SBJ4CSET-01<br>(*)17                         |               |                        |                          |                        |      |
| MR-J2S-700B4  | HC-SFS7024(B)                  | MR-J4-700B4-RJ020                                       |  |                   | SC-J2SJ4BS05 + SC-J2SBJ4CSET-01                   |               |                        |                          |                        |      |

| Existing model   |                   | Primary replacement model <sup>(*)2</sup>   |  |                   | Secondary replacement / package replacement model |  |                                     |               |                   |  |                          |   |                  |                            |                            |   |
|--|-------------------|---|--|-------------------|---|--|-------------------------------------|---------------|-------------------|--|--------------------------|---|------------------|----------------------------|----------------------------|---|
| Servo amplifier model  | Servo motor model | Servo amplifier model <sup>(*)4, (*)5</sup> | SSCNET conversion unit model <sup>(*)4</sup> | Renewal kit model | Servo amplifier model <sup>(*)4</sup>             | SSCNET conversion unit model <sup>(*)4</sup> | Servo motor model <sup>(*)4</sup>   | Compatibility | Renewal kit model | Motor side conversion cable model <sup>(*)18</sup> |                          |   |                  |                            |                            |   |
|  |                   |   |  |                   |   |  |                                     |               |                   | Power conversion cable                             | Encoder conversion cable | Brake conversion cable / cooling fan conversion cable |                  |                            |                            |   |
| [Medium to large capacity, low inertia HA-LFS 2000r/min Series, standard, with brakes] (B) indicates with brakes |                   |   |  |                   |   |  |                                     |               |                   |  |                          |   |                  |                            |                            |   |
| MR-J2S-11KB4   | HA-LFS11K24(B)    | MR-J4-11KB4-RJ020                           |  | MR-J4-T20         | SC-J2SJ4BS06 + SC-J2SBJ4CSET-02                   |  | MR-J4-11KB4-RJ020                   |               | MR-J4-T20         | HG-JR11K1M4(B)<br>(*)6                             | ×<br>(*)9                | SC-J2SBJ4CSET-02<br>(*)13                             | SC-J2SJ4PW3C1M-■ | Existing cable can be used | Existing cable can be used | Brake cable: Existing cable can be used<br>Cooling fan cable<br>(*)11 |
| MR-J2S-15KB4   | HA-LFS15K24(B)    | MR-J4-15KB4-RJ020<br>(*)12                  |  |                   | SC-J2SJ4BS07 + SC-J2SBJ4CSET-02                   |  | MR-J4-11KB4-RJ020<br>(*)12          |               |                   | HG-JR11K1M4(B)                                     |                          |   |                  |                            |                            |   |
| MR-J2S-22KB4   | HA-LFS22K24(B)    | MR-J4-22KB4-RJ020<br>(*)12                  |  |                   | SC-J2SJ4BS07 + SC-J2SBJ4CSET-02                   |  | MR-J4-15KB4-RJ020<br>(*)12          |               |                   | HG-JR15K1M4(B)                                     |                          |   |                  |                            |                            |   |
| MR-J2S-30KB4   | HA-LFS30K24       | MR-J4-DU30KB4-RJ020<br>(*)12, (*)16         |  |                   | SC-J2SJ4BS07 + SC-J2SBJ4CSET-02                   |  | MR-J4-22KB4-RJ020<br>(*)12          |               |                   | HG-JR22K1M4  |                          |   |                  |                            |                            |   |
| MR-J2S-37KB4   | HA-LFS37K24       | MR-J4-DU37KB4-RJ020<br>(*)12, (*)16         |  |                   | SC-J2SJ4BS09 + SC-J2SBJ4CSET-02                   |  | MR-J4-DU30KB4-RJ020<br>(*)12, (*)16 |               |                   | HG-JR30K1M4  |                          |   |                  |                            |                            |   |
| MR-J2S-45KB4   | HA-LFS45K24       | MR-J4-DU45KB4-RJ020<br>(*)12, (*)16         |  |                   |   |  | MR-J4-DU37KB4-RJ020<br>(*)12, (*)16 |               |                   | HG-JR37K1M4  |                          |   |                  |                            |                            |   |
| MR-J2S-55KB4   | HA-LFS55K24       | MR-J4-DU55KB4-RJ020<br>(*)12, (*)16         |  |                   |   | MR-J4-DU45KB4-RJ020<br>(*)12, (*)16          |                                     | HG-JR45K1M4   |                   |  |                          |   |                  |                            |                            |   |

Refer to page 9 for the applicable precautions.

# Renewal Replacement Combination Table

Primary replacement **Replacing only servo amplifier**
Secondary replacement **Replacing servo motor after replacing servo amplifier**
Package replacement **Replacing servo amplifier and servo motor together**

○: Compatible, △: Compatible with limited functions or conditions, ×: Incompatible

## Type CP <sup>(\*)</sup>

| Existing model   |                   | Primary/package replacement model <sup>(*)2, 3)</sup> |                   | Secondary replacement / package replacement model |               |   |   |                          |                                   |  |                            |  |  |
|--|-------------------|---|-------------------|---|---------------|---|---|--------------------------|-----------------------------------|--|----------------------------|--|--|
| Servo amplifier model  | Servo motor model | Servo amplifier model <sup>(*)4, 5)</sup>             | Renewal kit model | Servo motor model <sup>(*)4)</sup>                | Compatibility | Power conversion cable  | Motor side conversion cable model <sup>(*)18)</sup> | Encoder conversion cable | Brake conversion cable            |  |                            |  |  |
| [Small capacity, low inertia HC-KFS Series standard, with brakes] (B) indicates with brakes        |                   |   |                   |   |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-10CP(1)   | HC-KFS053(B)      | MR-J4-10A(1)-RJ                                       | SC-J2SCPJ4KT02K   | HG-KR053(B)                                       | △<br>(*6)     | Without brakes<br>SC-J2S4PW1C03M-■<br>With brakes<br>SC-J2S4PWBK1C03M-■ | SC-HAJ3ENM1C03M-■                                   |                          | Built-into power conversion cable |  |                            |  |  |
|  | HC-KFS13(B)       |   |                   | HG-KR13(B)  |               |   |   |                          |                                   |  |                            |  |  |
|  | HC-KFS23(B)       |   |                   | HG-KR23(B)  |               |   |   |                          |                                   |  |                            |  |  |
|  | HC-KFS43(B)       |   |                   | HG-KR43(B)  |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-40CP(1)   | HC-KFS43(B)       | MR-J4-40A(1)-RJ                                       | SC-J2SCPJ4KT06K   | HG-KR43(B)  |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-70CP  | HC-KFS73(B)       | MR-J4-70A-RJ  | SC-J2SCPJ4KT1K    | HG-KR73(B)  |               |   |   |                          |                                   |  |                            |  |  |
| [Small capacity, super-low inertia HC-MFS Series standard, with brakes] (B) indicates with brakes  |                   |   |                   |   |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-10CP(1)   | HC-MFS053(B)      | MR-J4-10A(1)-RJ                                       | SC-J2SCPJ4KT02K   | HG-MR053(B)                                       | ○             | Without brakes<br>SC-J2S4PW1C03M-■<br>With brakes<br>SC-J2S4PWBK1C03M-■ | SC-HAJ3ENM1C03M-■                                   |                          | Built-into power conversion cable |  |                            |  |  |
|  | HC-MFS13(B)       |   |                   | HG-MR13(B)  |               |   |   |                          |                                   |  |                            |  |  |
|  | HC-MFS23(B)       |   |                   | HG-MR23(B)  |               |   |   |                          |                                   |  |                            |  |  |
|  | HC-MFS43(B)       |   |                   | HG-MR43(B)  |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-40CP(1)   | HC-MFS43(B)       | MR-J4-40A(1)-RJ                                       | SC-J2SCPJ4KT06K   | HG-MR43(B)  |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-70CP  | HC-MFS73(B)       | MR-J4-70A-RJ  | SC-J2SCPJ4KT1K    | HG-MR73(B)  |               |   |   |                          |                                   |  |                            |  |  |
| [Medium capacity, medium inertia HC-SFS Series standard, with brakes] (B) indicates with brakes    |                   |   |                   |   |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-60CP  | HC-SFS52(B)       | MR-J4-60A-RJ  | SC-J2SCPJ4KT06K   | HG-SR52(B)  | △<br>(*7)     | SC-SAJ3PW2KC1M-S2   | SC-HAJ3ENM3C1M                                      |                          | (*8)                              |  |                            |  |  |
| MR-J2S-100CP   | HC-SFS102(B)      | MR-J4-100A-RJ   | SC-J2SCPJ4KT1K    | HG-SR102(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-200CP   | HC-SFS152(B)      | MR-J4-200A-RJ   | SC-J2SCPJ4KT3K    | HG-SR152(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
|  | HC-SFS202(B)      |   |                   | HG-SR202(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-350CP   | HC-SFS352(B)      | MR-J4-350A-RJ   | SC-J2SCPJ4KT5K    | HG-SR352(B)                                       |               |   |   |                          |                                   |  | SC-HAJ3PW1C1M              |  |  |
| MR-J2S-500CP   | HC-SFS502(B)      | MR-J4-500A-RJ   | SC-J2SCPJ4KT7K    | HG-SR502(B)                                       |               |   |   |                          |                                   |  | Existing cable can be used |  |  |
| MR-J2S-700CP   | HC-SFS702(B)      | MR-J4-700A-RJ   | SC-J2SCPJ4KT7K    | HG-SR702(B)                                       |               |   |   |                          |                                   |  | Existing cable can be used |  |  |
| [Medium capacity, super-low inertia HC-RFS Series standard, with brakes] (B) indicates with brakes |                   |   |                   |   |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-200CP   | HC-RFS103(B)      | MR-J4-200A-RJ   | SC-J2SCPJ4KT3K    | HG-RR103(B)                                       | ○             | Existing cable can be used  | SC-HAJ3ENM3C1M                                      |                          | Existing cable can be used        |  |                            |  |  |
| MR-J2S-350CP   | HC-RFS153(B)      | MR-J4-350A-RJ   | SC-J2SCPJ4KT5K    | HG-RR153(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
|  | HC-RFS203(B)      |   |                   | HG-RR203(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-500CP   | HC-RFS353(B)      | MR-J4-500A-RJ   | SC-J2SCPJ4KT5K    | HG-RR353(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| [Medium capacity, flat type HC-UFS Series standard, with brakes] (B) indicates with brakes         |                   |   |                   |   |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-70CP  | HC-UFS72(B)       | MR-J4-70A-RJ  | SC-J2SCPJ4KT1K    | HG-UR72(B)  | ○             | Existing cable can be used  | SC-HAJ3ENM3C1M                                      |                          | Existing cable can be used        |  |                            |  |  |
| MR-J2S-200CP   | HC-UFS152(B)      | MR-J4-200A-RJ   | SC-J2SCPJ4KT3K    | HG-UR152(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-350CP   | HC-UFS202(B)      | MR-J4-350A-RJ   | SC-J2SCPJ4KT5K    | HG-UR202(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-500CP   | HC-UFS352(B)      | MR-J4-500A-RJ   | SC-J2SCPJ4KT7K    | HG-UR352(B)                                       |               |   |   |                          |                                   |  |                            |  |  |
| [Medium capacity, low inertia HA-LFS Series, standard]   |                   |   |                   |   |               |   |   |                          |                                   |  |                            |  |  |
| MR-J2S-500CP   | HA-LFS502         | MR-J4-500A-RJ   | SC-J2SCPJ4KT5K    | HG-SR502  | ×<br>(*9)     | SC-HAJ3PW1C1M   | SC-HAJ3ENM3C1M                                      |                          |                                   |  |                            |  |  |
| MR-J2S-700CP   | HA-LFS702         | MR-J4-700A-RJ   | SC-J2SCPJ4KT7K    | HG-SR702  |               | Existing cable can be used  |   |                          |                                   |  |                            |  |  |

- \*1. Refer to the Mitsubishi Electric System & Service web site for motors with reduction gears and models not listed above.
- \*2. When the gain of the existing servo amplifier is extremely high, the characteristics may differ slightly if a primary replacement is made. Always set the gain again.
- \*3. The replacement servo amplifier, SSCNET conversion unit and renewal kit are common for the primary, secondary and package replacements.
- \*4. Purchase from Mitsubishi Electric Corp.
- \*5. When making a primary replacement, the amplifier software version may differ according to the supported motor. Consult with Mitsubishi Electric Corp. when placing an order.
- \*6. When replacing the motor, the motor's moment of inertia will differ from the original motor. Pay attention to the load moment of inertia rate. The operation pattern may need to be reviewed depending on the existing system. Refer to the "Guide for Replacing MELSERVO-J2S/J2M Series with J4 Series L (NA) 03092" issued by Mitsubishi Electric for details on the motor specifications.
- \*7. Note that the entire length of the motor will be shorter, so the motor connector may interfere with the system side.
- \*8. When replacing the motor with brakes with secondary or package replacement, a magnetic brake cable must be newly connected. Use the Mitsubishi Electric System & Service motor magnetic brake cable (SC-BKC1CBL□M-L or SC-BKC1CBL□M-H).
- \*9. When replacing the motor, the flange dimensions and shaft dimensions will not be interchangeable. The mounting section and the coupling section with the servo motor shaft, such as the coupling pulley must be changed. Refer to the "Guide for Replacing MELSERVO-J2S/J2M Series with J4 Series L (NA) 03092" issued by Mitsubishi Electric for details on the motor specifications.
- \*10. When replacing the motor, the existing power cable's crimp terminal must be changed. Refer to the "Guide for Replacing MELSERVO-J2S/J2M Series with J4 Series L (NA) 03092" issued by Mitsubishi Electric for details on the motor specifications.
- \*11. When replacing the motor, the new motor will not have a cooling fan. The existing wiring will no longer be required, so always insulate it.
- \*12. If the servo amplifier must be replaced again for the secondary replacement, a package replacement is recommended.
- \*13. The renewal kit cannot be used with the secondary replacement or package replacement, as the servo amplifier's dimensions could vary greatly because of a change in servo amplifier capacity. Use the amplifier conversion cable set in this case.
- \*14. A new encoder cable must be connected when replacing the motor. Contact Mitsubishi Electric System & Service to purchase a new cable.
- \*15. Use this amplifier in combination with the converter unit MR-CR55K.
- \*16. Use this amplifier in combination with the converter unit MR-CR55k4.
- \*17. The renewal kit is not required for this combination. Purchase only the amplifier conversion cable if necessary.
- \*18. Either "A1" or "A2" is indicated at ■ in the model. (A1 is connected to load side, and A2 is connected to opposite load side.)

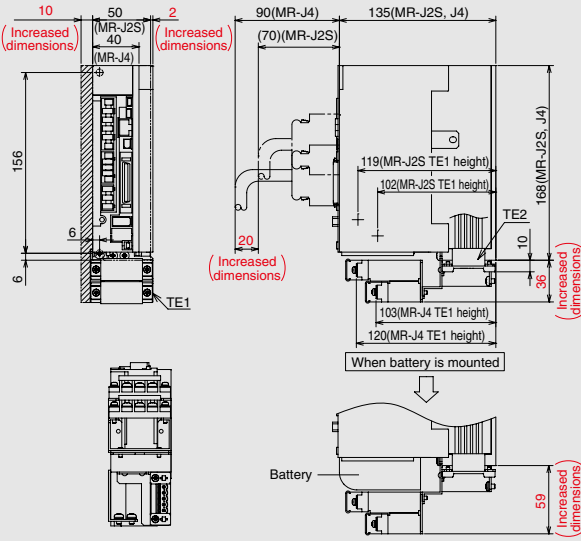
Visit the Mitsubishi Electric System & Service website for replacing motor models not listed in the replacement combination table. <http://www.melco.jp/business/>

# Outline dimensions

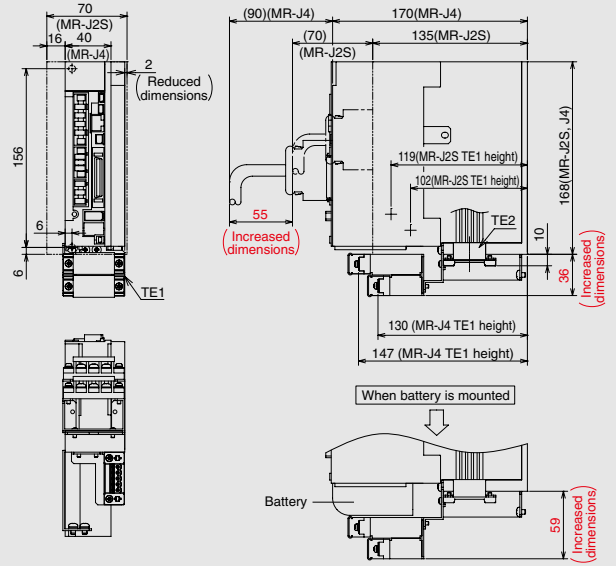
## Renewal kit (for 100V/200V AC)

[unit: mm]

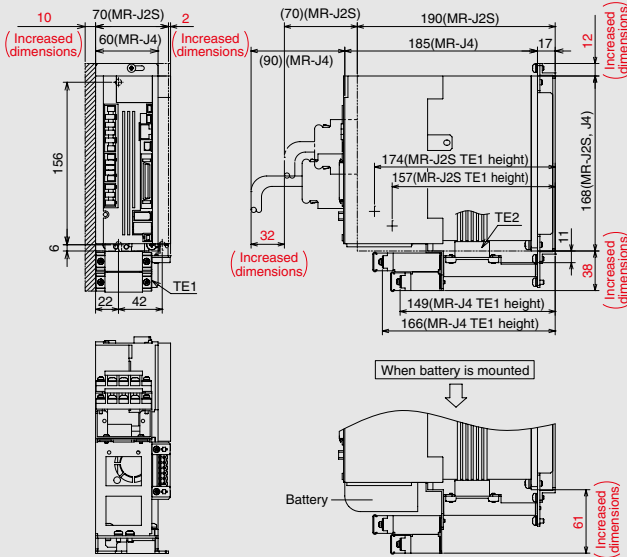
### SC-J2S(B)(CP)J4KT02K



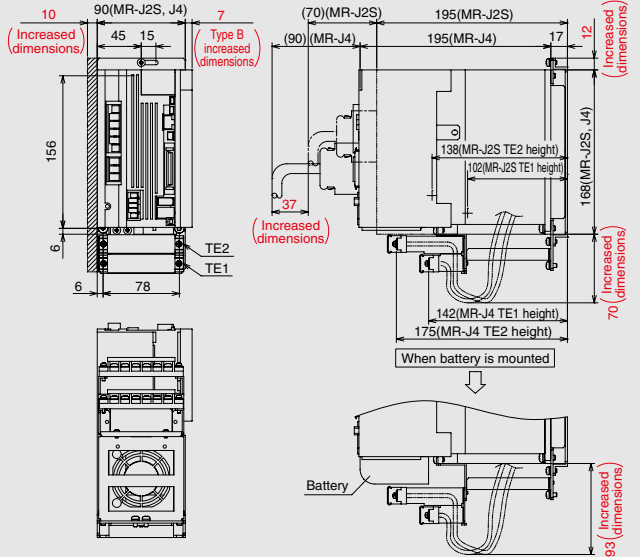
### SC-J2S(B)(CP)J4KT06K



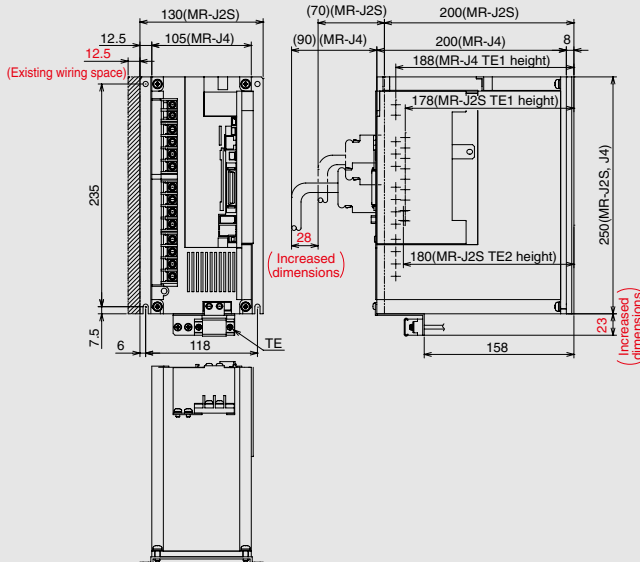
### SC-J2S(B)(CP)J4KT1K



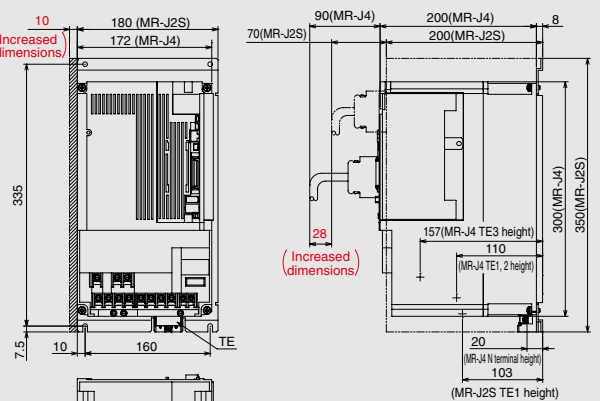
### SC-J2S(B)(CP)J4KT3K



### SC-J2S(B)(CP)J4KT5K

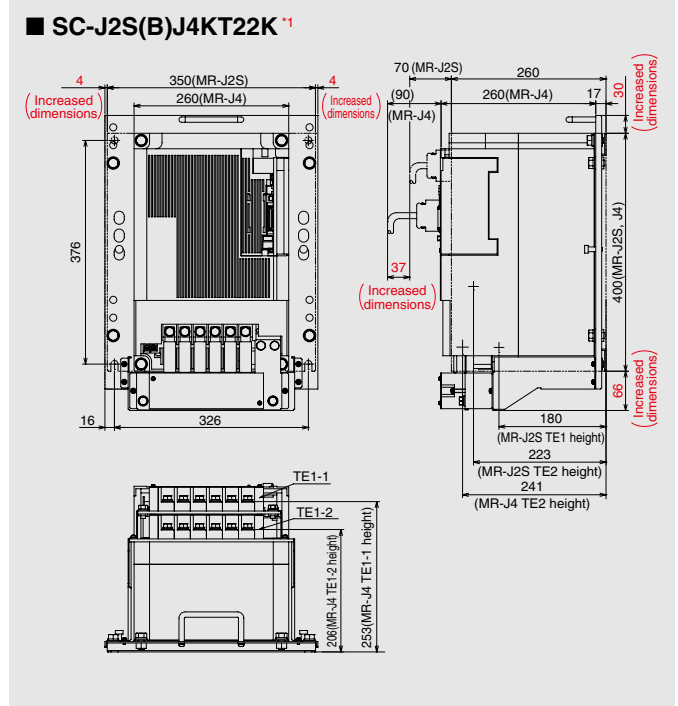
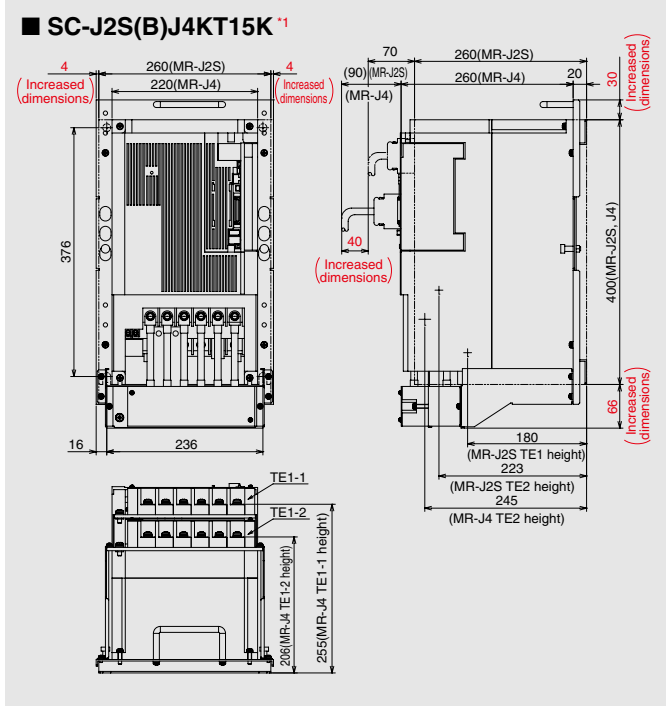


### SC-J2S(B)(CP)J4KT7K



# Renewal kit (for 100V/200V AC)

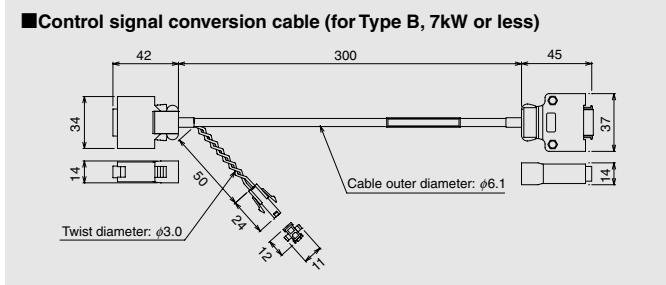
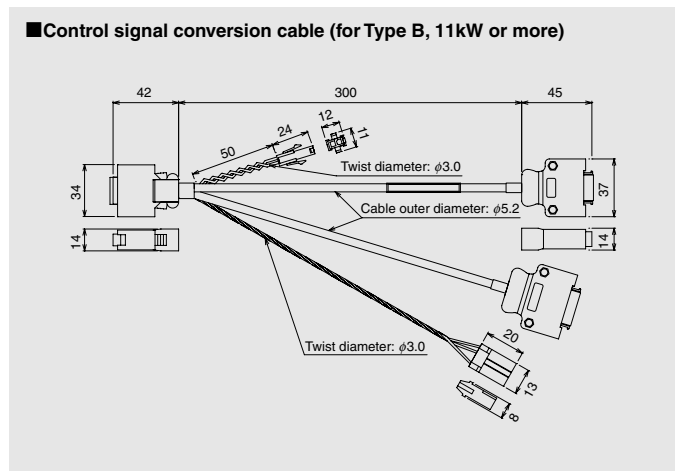
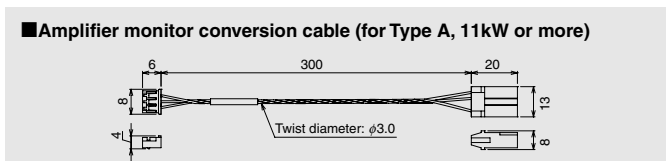
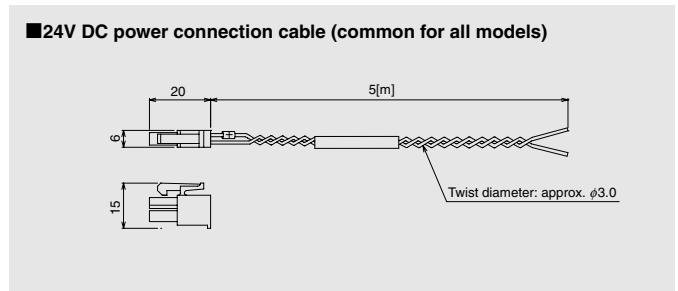
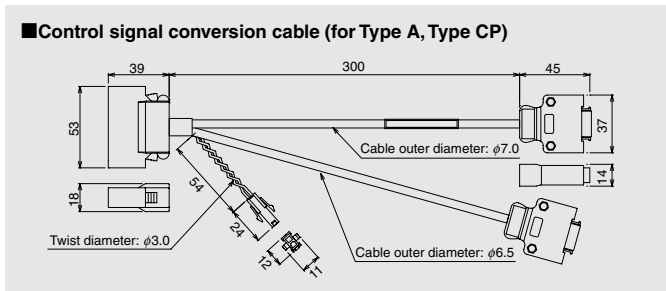
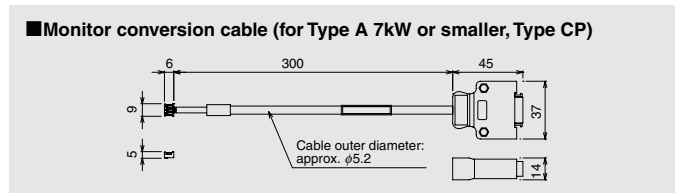
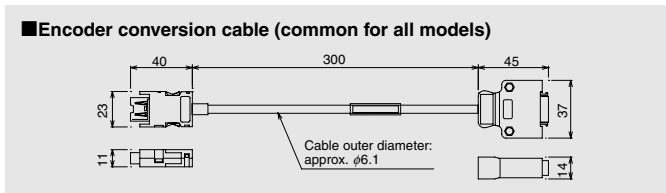
[unit: mm]



\*1. Mounting of the MR-J2S cooling fin external extension attachment is not supported.

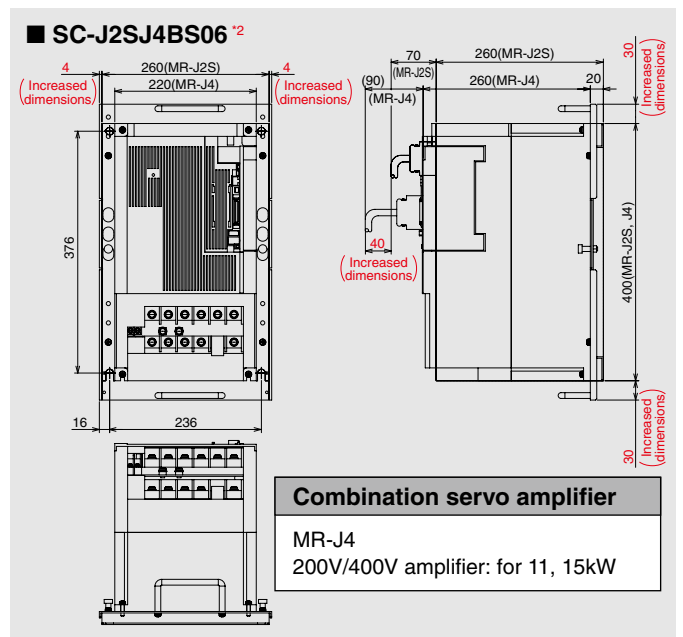
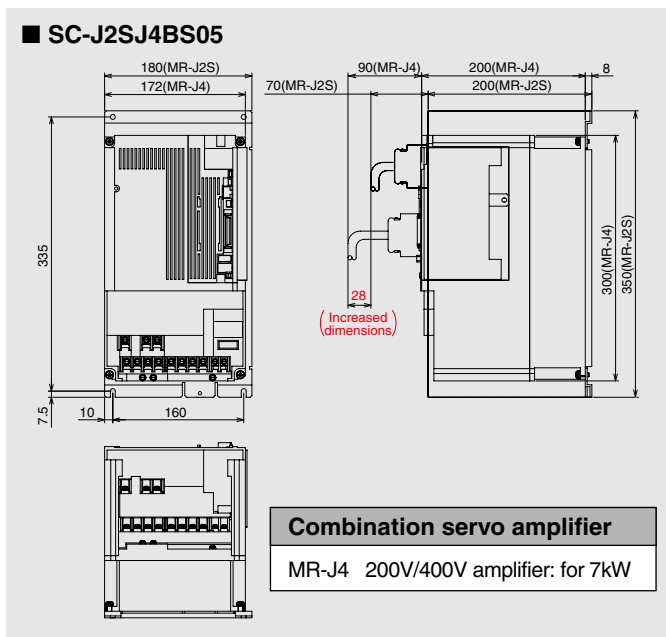
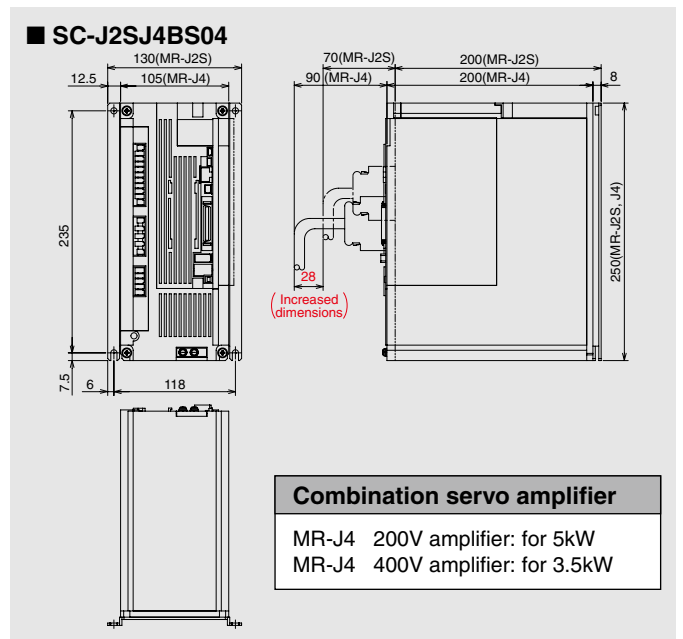
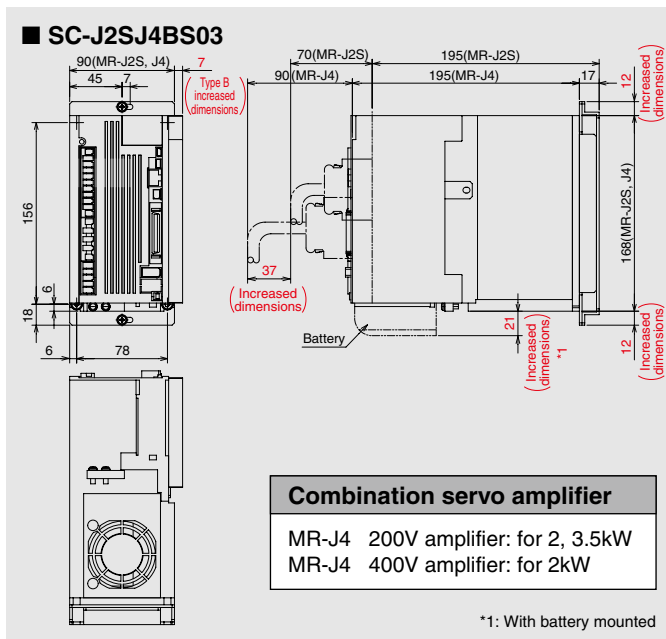
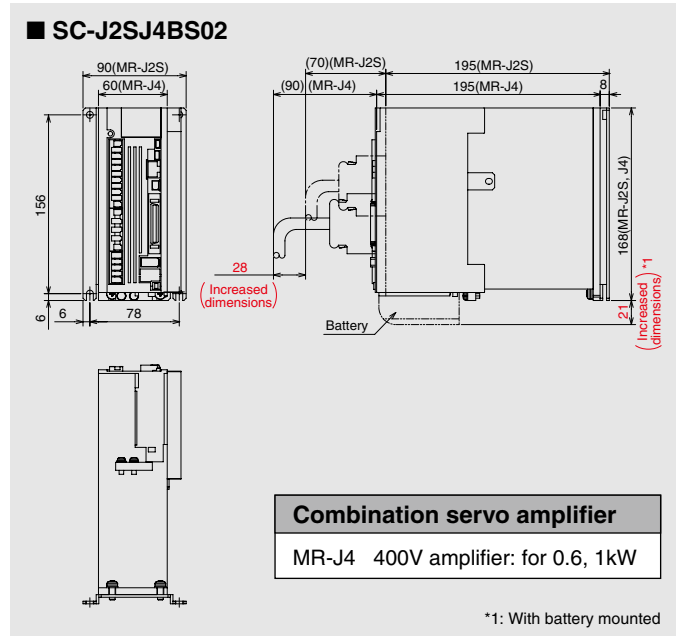
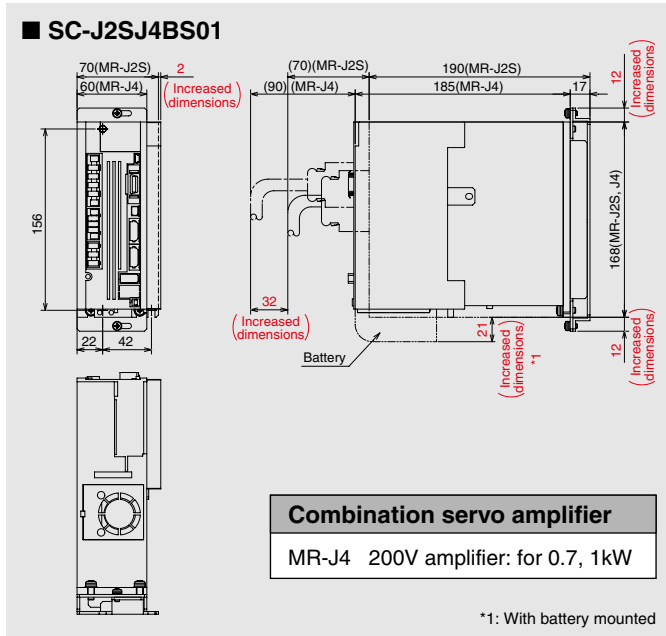
# Amplifier conversion cable

[unit: mm]



# Renewal kit (for 400V AC) / using mounting attachment (for 100V/200V AC)

[unit: mm]



\*2. Mounting of the MR-J2S cooling fin external extension attachment is not supported.

# Renewal kit (for 400V AC) / using mounting attachment (for 100V/200V AC)

[unit: mm]

**■ SC-J2SJ4BS07<sup>\*1</sup>**

**Combination servo amplifier**  
MR-J4 200V/400V amplifier: for 22kW

**■ SC-J2SJ4BS08<sup>\*1</sup>**

**Combination servo amplifier**  
MR-J4 400V amplifier: for 30kW

**■ SC-J2SJ4BS09<sup>\*1</sup>**

**Table of dimension changes**

| Servo amplifier |               | A   |
|-----------------|---------------|-----|
| MR-J4           | 400V 30, 37kW | 240 |
| MR-J4           | 200V 30, 37kW | 300 |
|                 | 400V 45, 55kW |     |

**Combination servo amplifier**  
MR-J4 200V amplifier: for 30, 37kW  
MR-J4 400V amplifier: for 37, 45, 55kW

\*1. Mounting of the MR-J2S cooling fin external extension attachment is not supported.

## Mounting attachment selection table

| Model        | Applicable amplifier <sup>*2</sup>  | Description                                       |
|--------------|---|---|
| SC-J2SJ4BS01 | MR-J4 200V amplifier: for 0.7, 1kW  | Mounting plate (base x1, amplifier base x1)       |
| SC-J2SJ4BS02 | MR-J4 400V amplifier: for 0.6, 1kW  | Mounting plate (amplifier base x1)                |
| SC-J2SJ4BS03 | MR-J4 200V amplifier: for 2, 3.5kW / MR-J4 400V amplifier: for 2kW          | Mounting plate (base x1, amplifier base x1)       |
| SC-J2SJ4BS04 | MR-J4 200V amplifier: for 5kW / MR-J4 400V amplifier: for 3.5kW             | Mounting plate (amplifier base x1)                |
| SC-J2SJ4BS05 | MR-J4 200V/400V amplifier: for 7kW  | Mounting plate (amplifier base x1)                |
| SC-J2SJ4BS06 | MR-J4 200V/400V amplifier: for 11, 15kW                                     | Mounting plate (base x1, amplifier base x1)       |
| SC-J2SJ4BS07 | MR-J4 200V/400V amplifier: for 22kW   | Mounting plate (base x1, amplifier base x1)       |
| SC-J2SJ4BS08 | MR-J4 400V amplifier: for 30kW  | Mounting plate (amplifier base frame x4, base x1) |
| SC-J2SJ4BS09 | MR-J4 200V amplifier: for 30, 37kW / MR-J4 400V amplifier: for 37, 45, 55kW | Mounting plate (amplifier base frame x4, base x1) |

\*2. The mounting attachment is common for Type A, Type B and Type CP.

# Mitsubishi General-Purpose AC Servo Renewal Tool

## Mitsubishi Electric Corp. related materials

### Mitsubishi Electric Corp. catalog



Renewal catalog explaining replacement of MR-J2S System with MR-J4

■MR-J2S Renewal Catalog  
L (NA) 03091A

### Mitsubishi Electric Corp. Replacement Guide



Guide explaining replacement of MR-J2S System with MR-J4. Refer to this guide for details on the parameter settings and option settings, etc.

■Guide for Replacing MR-J2S/J2M Series with J4 Series  
L (NA) 03093

## General-Purpose AC Servo MR-J2S Series

### Notice of Discontinuation

Production of the Mitsubishi general-purpose AC servo MR-J2S Series will be discontinued in August 2015.

Replacing to the MR-J4 Series using our renewal tool is recommended.

Refer to the Mitsubishi Electric FA site

(<http://www.MitsubishiElectric.co.jp/fa/>) for details on the products being discontinued.

#### Ordered production schedule

**End of August 2014**

The orders will be delivered 8 to 10 weeks after order is received.

#### Production discontinuation schedule

**August 2015**

Orders will not be accepted after August 31, 2015.

#### Repair and Part Supply Schedule

**August 2022**

Orders will be accepted until August 31, 2022.

\* We will continue to provide support until August 31, 2022.

All company names and product names listed in this catalog are registered trademarks or trademarks of the respective company.

**MITSUBISHI ELECTRIC SYSTEM & SERVICE CO., LTD.**

OVERSEAS SERVICE SUPPORT SECTION

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