



General-Purpose AC Servo

MITSUBISHI SERVO AMPLIFIERS & MOTORS  
**MELSERVO**

MODEL

**HG-KN**

**HG-SN**

SERVO MOTOR INSTRUCTION MANUAL



## ● Safety Instructions ●

Please read the instructions carefully before using the equipment.

To use the equipment correctly, do not attempt to install, operate, maintain or inspect the equipment until you have read through this Instruction Manual and appended documents carefully. Do not use the equipment until you have a full knowledge of the equipment, safety information and instructions.


In this Instruction Manual, the safety instruction levels are classified into "WARNING" and "CAUTION".



Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.




Indicates that incorrect handling may cause hazardous conditions, resulting in medium or slight injury to personnel or may cause physical damage.

Note that the  CAUTION level may lead to a serious consequence according to conditions.


Please follow the instructions of both levels because they are important to personnel safety.

What must not be done and what must be done are indicated by the following diagrammatic symbols.



Indicates what must not be done. For example, "No Fire" is indicated by .




Indicates what must be done. For example, grounding is indicated by .


In this Instruction Manual, instructions at a lower level than the above, instructions for other functions, and so on are classified into "POINT".

After reading this Instruction Manual, keep it accessible to the operator.


## 1. To prevent electric shock, note the following

 <b>WARNING</b>
<ul style="list-style-type: none"><li>● Before wiring and inspections, turn off the power and wait for 15 minutes or more until the charge lamp turns off. Otherwise, an electric shock may occur. In addition, when confirming whether the charge lamp is off or not, always confirm it from the front of the servo amplifier.</li><li>● Ground the servo amplifier and servo motor securely.</li><li>● Any person who is involved in wiring and inspection should be fully competent to do the work.</li><li>● Do not attempt to wire the servo amplifier and servo motor until they have been installed. Otherwise, it may cause an electric shock.</li><li>● The cables should not be damaged, stressed, loaded, or pinched. Otherwise, it may cause an electric shock.</li><li>● To avoid an electric shock, insulate the connections of the power supply terminals.</li></ul>

## 2. To prevent fire, note the following

 <b>CAUTION</b>
<ul style="list-style-type: none"><li>● Install the servo motor on incombustible material. Installing them directly or close to combustibles will lead to smoke or a fire.</li><li>● Provide an adequate protection to prevent screws and other conductive matter, oil and other combustible matter from entering the servo motor.</li></ul>

## 3. To prevent injury, note the following

 <b>CAUTION</b>
<ul style="list-style-type: none"><li>● Only the power/signal specified in the Instruction Manual must be supplied/applied to each terminal. Otherwise, an electric shock, fire, injury, etc. may occur.</li><li>● Connect cables to the correct terminals. Otherwise, a burst, damage, etc. may occur.</li><li>● Ensure that polarity (+/-) is correct. Otherwise, a burst, damage, etc. may occur.</li><li>● The servo motor, etc. may be hot while power is on and for some time after power-off. Take safety measures such as providing covers to avoid accidentally touching them by hands and parts such as cables.</li><li>● The surface temperature of the servo motor may exceed 100 °C depending on its mounting and operating conditions.</li><li>● During operation, never touch the rotor of the servo motor. Otherwise, it may cause injury.</li></ul>





























































































































































































































