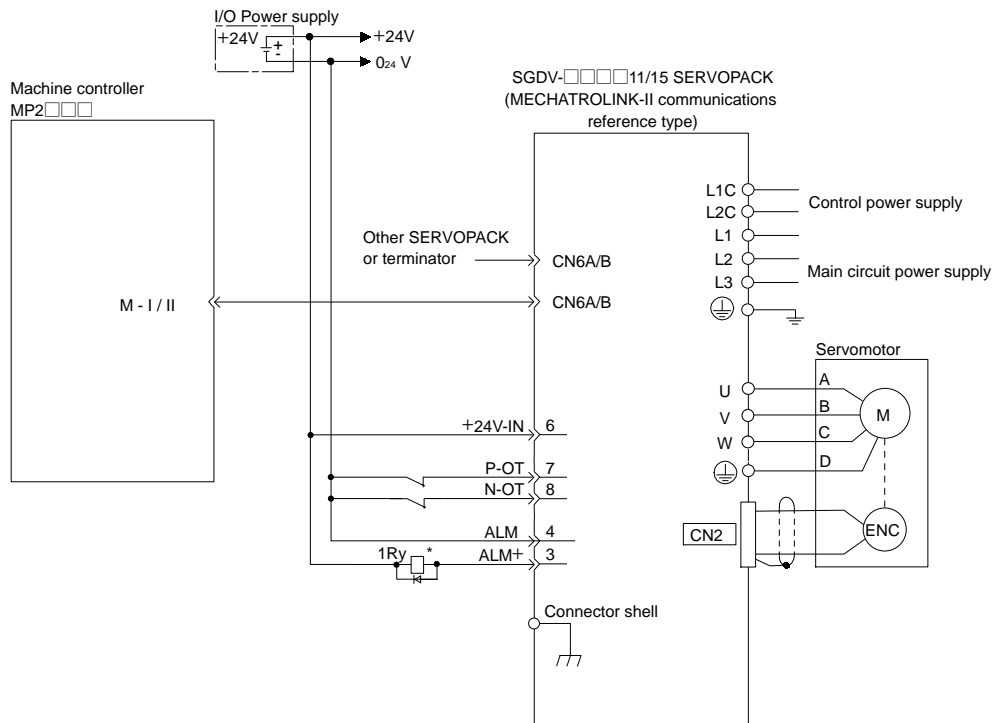




# Connection to Host Controller

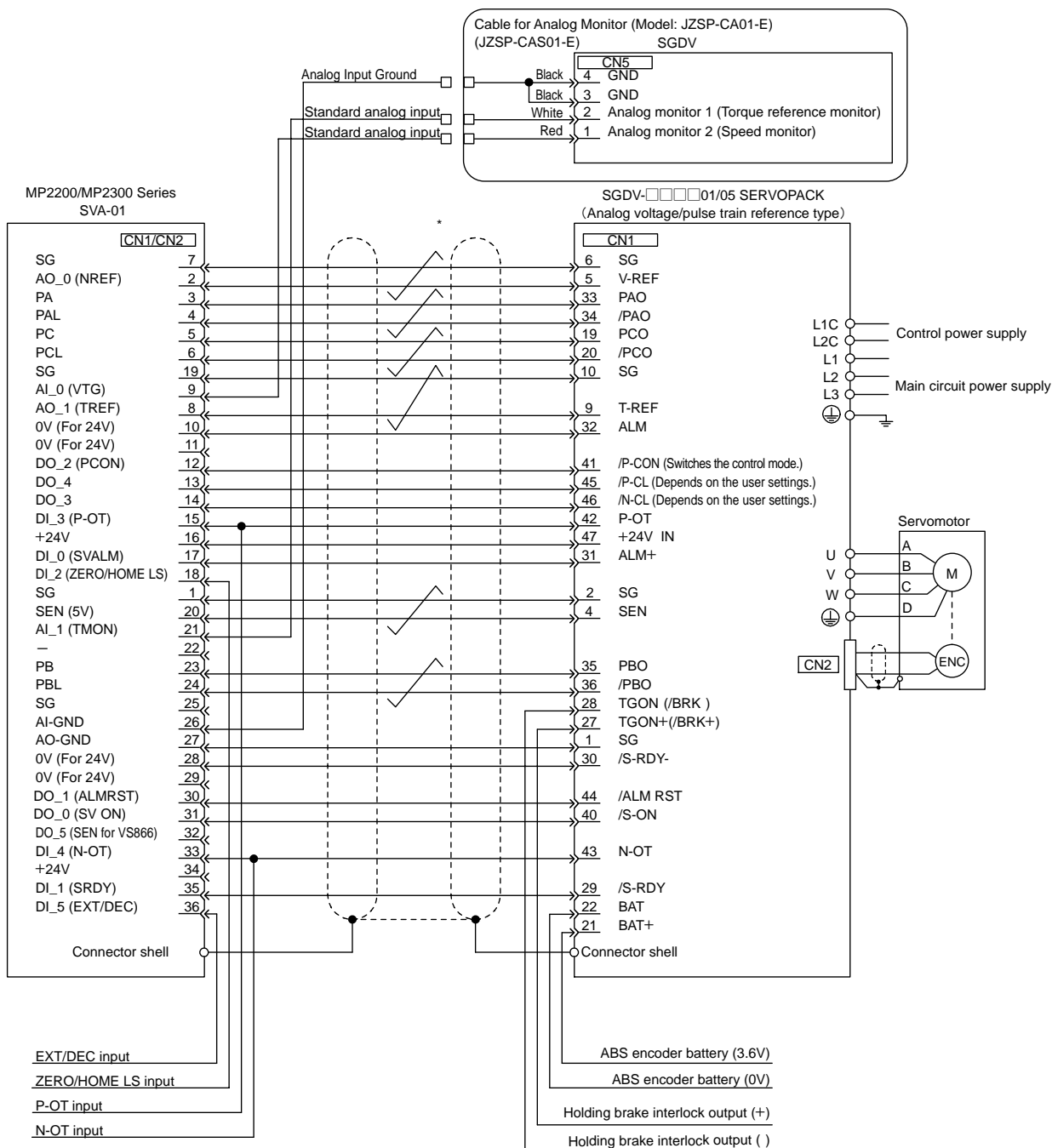
## Example of Connection to Machine Controller MP2□□□



\*: The ALM signal is output for five seconds or less when the power is turned ON. Take this into consideration when designing the power ON sequence. The ALM signal actuates the alarm detection relay "1Ry" to stop the main circuit power supply to the SERVOPACK.

- Notes:
- 1 Only signals applicable to Machine Controller MP2□□□ and Yaskawa's SGD Servopack are shown in the diagram.
  - 2 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.
  - 3 Note that incorrect connection will cause damage to the Machine Controller and SERVOPACK. Take particular care to wire correctly.
  - 4 Open the signal lines not to be used.
  - 5 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.
  - 6 The normally closed (N.C.) input terminals not to be used at the Machine Controller I/O connector section must be short-circuited at the connector.
  - 7 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.
  - 8 The SERVOPACK has a built-in safety function to protect prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.

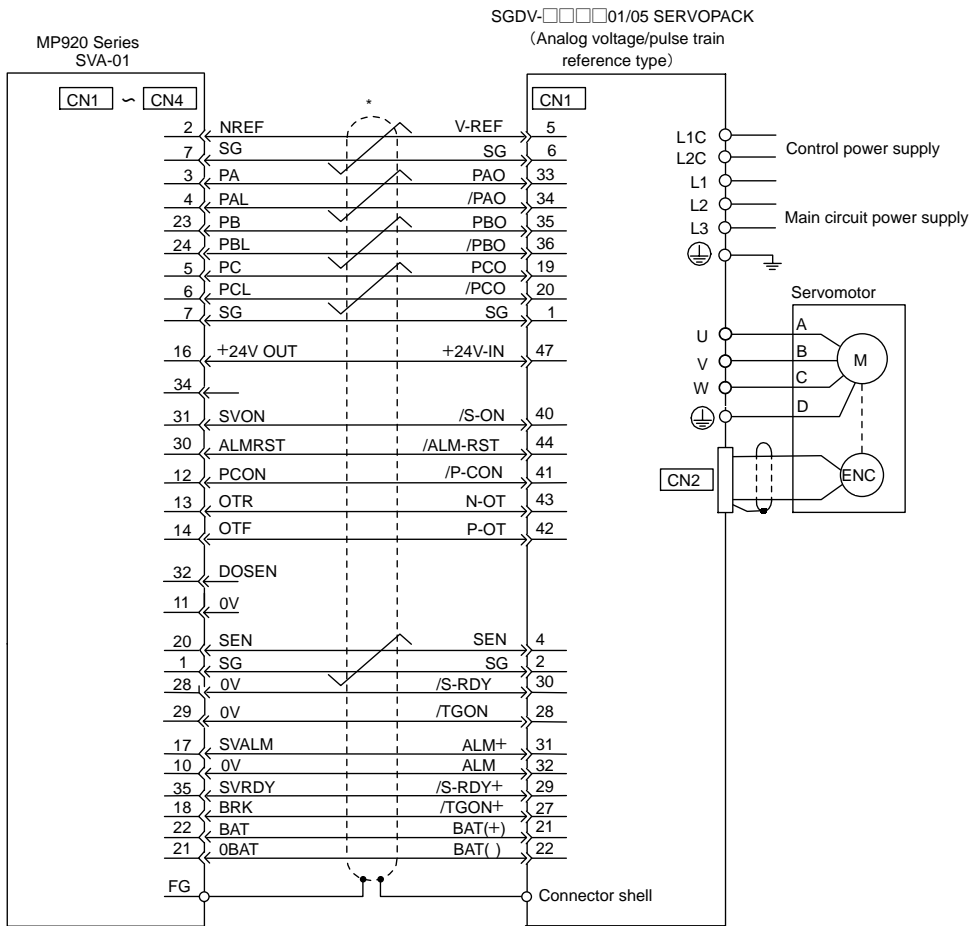
## Example of Connection to MP2200 / MP2300 Motion Module SVA-01



\*: represents twisted-pair wires.

- Notes:
- 1 Connection cables (model: JEPMC-W 2040-□□) to connect the SERVOPACK to the MP2200/MP2300 are provided by Yaskawa. For details, see "Machine Controller MP2200/MP2300 Motion Module User's Manual" (manual no. YEA-SIEPC88070016).
  - 2 Only signals applicable to MP2200 / MP2300 Motion Module SVA-01 and Yaskawa's SGD V SERVOPACK are shown in the diagram.
  - 3 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.
  - 4 Note that incorrect connection will cause damage to the Machine Controller and SERVOPACK. Take particular care to wire correctly.
  - 5 Open the signal lines not to be used.
  - 6 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.
  - 7 The normally closed (N.C.) input terminals not to be used at the Machine Controller I/O connector section must be short-circuited at the connector.
  - 8 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.
  - 9 The SERVOPACK has a built-in safety function to protect prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.

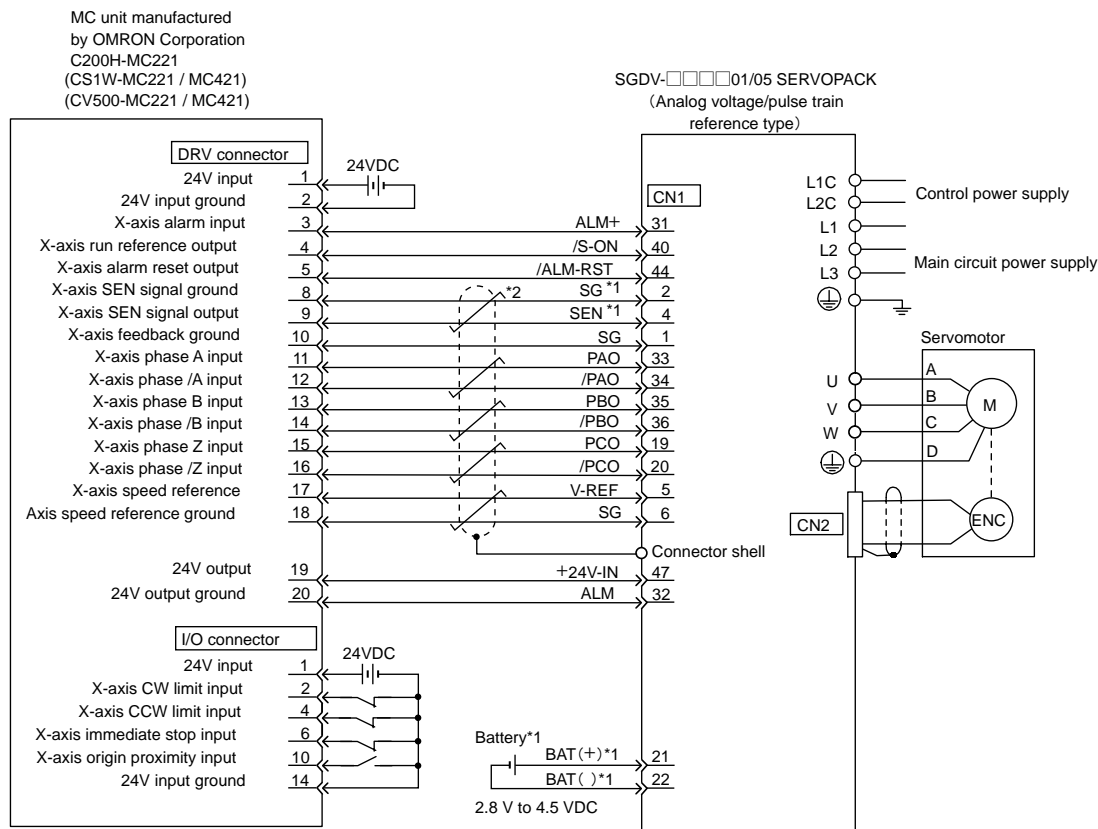
## Example of Connection to MP920 4-axis Analog Module SVA-01



\*: represents twisted-pair wires.

- Notes:
- 1 Connection cables (model: JEPMC-W6050-□□) to connect the SERVOPACK to the MP920 are provided by Yaskawa. For details, see "Machine Controller MP920 User's Manual Design and Maintenance" (manual no. SIEZ-C887-2.1).
  - 2 Only signals applicable to MP920 4-axes Analog Module SVA-01 and Yaskawa's SGDV SERVOPACK are shown in the diagram.
  - 3 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.
  - 4 Note that incorrect connection will cause damage to the Machine Controller and SERVOPACK. Take particular care to wire correctly.
  - 5 Open the signal lines not to be used.
  - 6 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.
  - 7 The normally closed (N.C.) input terminals not to be used at the Machine Controller I/O connector section must be short-circuited at the connector.
  - 8 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.
  - 9 The SERVOPACK has a built-in safety function to protect prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.


## Example of Connection to OMRON's Motion Control Unit



\*1: Use a battery when using an absolute encoder.

No battery is needed for CN1 (between 21, 22) when using an encoder cable with a battery.

- Battery for CN1 : ER6VC3N (3.6 V, 2000 mA)
- Battery for battery unit : JUSP-BA01-E (3.6 V, 1000 mA)

\*2:  represents twisted-pair wires.

Notes: 1 Only signals applicable to OMRON Corporation's MC unit and Yaskawa's SGDV SERVOPACK are shown in the diagram.

2 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.

3 Note that incorrect connection will cause damage to the MC unit and SERVOPACK.

Take particular care to wire correctly.

4 Open the signal lines not to be used.

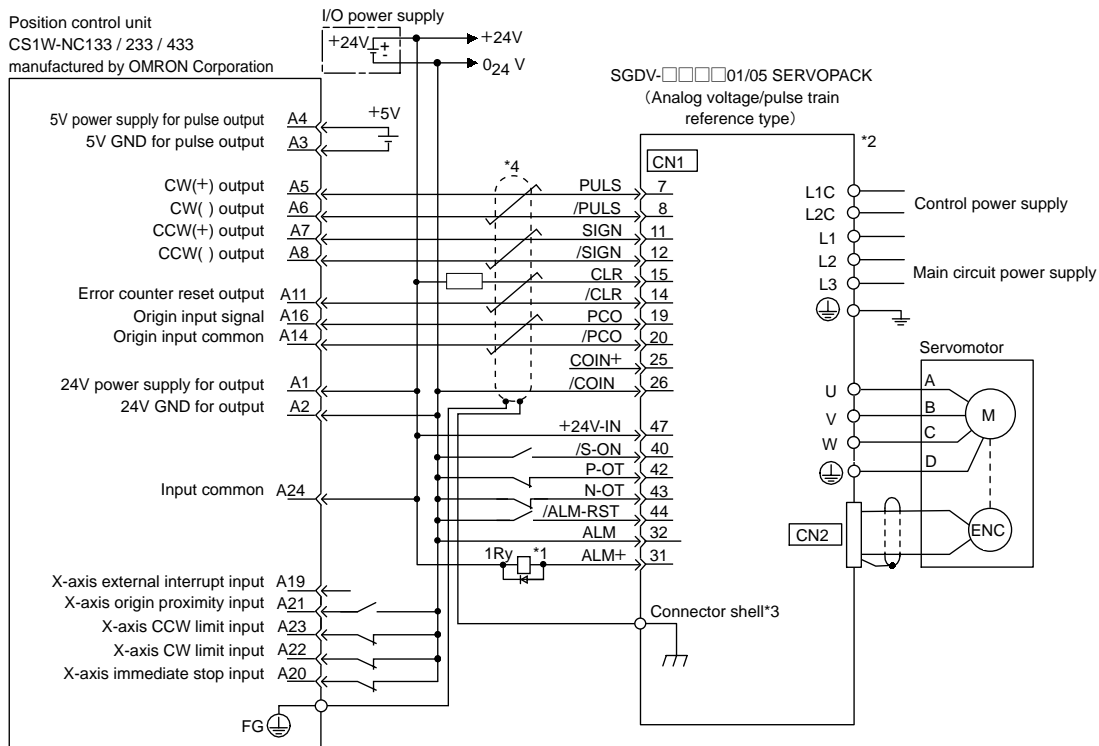
5 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.

6 The normally closed (N.C.) input terminals not to be used at the motion control unit I/O connector section must be short-circuited at the connector.

7 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.

8 The SERVOPACK has a built-in safety function to prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.


## Example of Connection to OMRON's Position Control Unit



\*1: The ALM signal is output for five seconds or less when the power is turned ON. Take this into consideration when designing the power ON sequence. The ALM signal actuates the alarm detection relay "1Ry" to stop the main circuit power supply to the SERVOPACK.

\*2: Set parameter Pn200.0 = 1 or 6.

\*3: Connect the shield wire to the connector shell.

\*4  represents twisted-pair wires.

Notes: 1 Only signals applicable to OMRON Corporation's position control unit and Yaskawa's SGDV SERVOPACK are shown in the diagram.

2 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.

3 Note that incorrect connection will cause damage to the position control unit and SERVOPACK. Take particular care to wire correctly.

4 Open the signal lines not to be used.

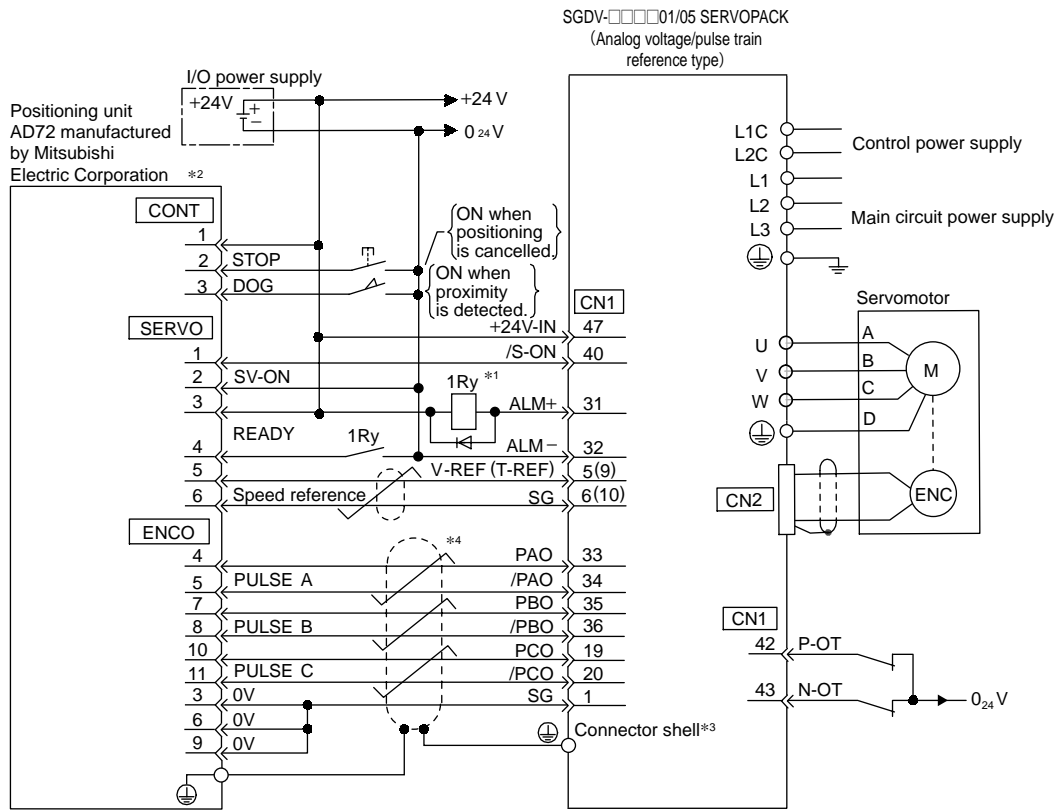
5 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.

6 The normally closed (N.C.) input terminals not to be used at the position control unit I/O connector section must be short-circuited at the connector.

7 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.

8 The SERVOPACK has a built-in safety function to prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.


## Example of Connection to Mitsubishi's AD72 Positioning Unit (SERVOPACK in Speed Control)



\*1: The ALM signal is output for five seconds or less when the power is turned ON. Take this into consideration when designing the power ON sequence. The ALM signal actuates the alarm detection relay "1Ry" to stop the main circuit power supply to the SERVOPACK.

\*2: Pin numbers are the same both for X-axis and Y-axis.

\*3: Connect the shield wire to the connector shell.

\*4:  represents twisted-pair wires.

Notes: 1 Only signals applicable to Mitsubishi Electric Corporation's AD72 positioning unit and Yaskawa's SGDV SERVOPACK are shown in the diagram.

2 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.

3 Note that incorrect connection will cause damage to the positioning unit and SERVOPACK. Take particular care to wire correctly.

4 Open the signal lines not to be used.

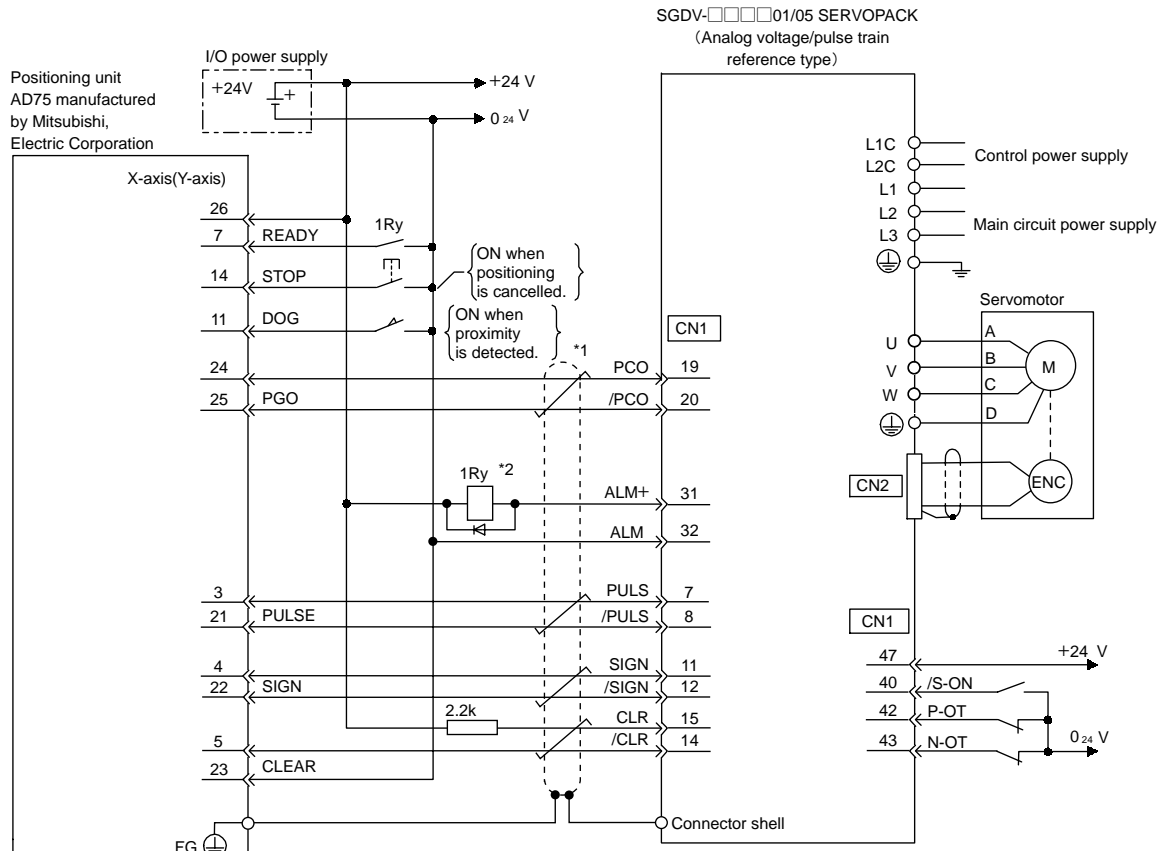
5 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.

6 The normally closed (N.C.) input terminals not to be used at the positioning unit I/O connector section must be short-circuited at the connector.

7 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.

8 The SERVOPACK has a built-in safety function to prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.

## Example of Connection to Mitsubishi's AD75 Positioning Unit (SERVOPACK in Position Control)



\*1: represents twisted-pair wires.

\*2: The ALM signal is output for five seconds or less when the power is turned ON. Take this into consideration when designing the power ON sequence. The ALM signal actuates the alarm detection relay "1Ry" to stop the main circuit power supply to the SERVOPACK.

Notes: 1 Only signals applicable to Mitsubishi Electric Corporation's AD75 positioning unit and Yaskawa's SGDV SERVOPACK are shown in the diagram.

2 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.

3 Note that incorrect connection will cause damage to the positioning unit and SERVOPACK. Take particular care to wire correctly.

4 Open the signal lines not to be used.

5 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.

6 The normally closed (N.C.) input terminals not to be used at the positioning unit I/O connector section must be short-circuited at the connector.

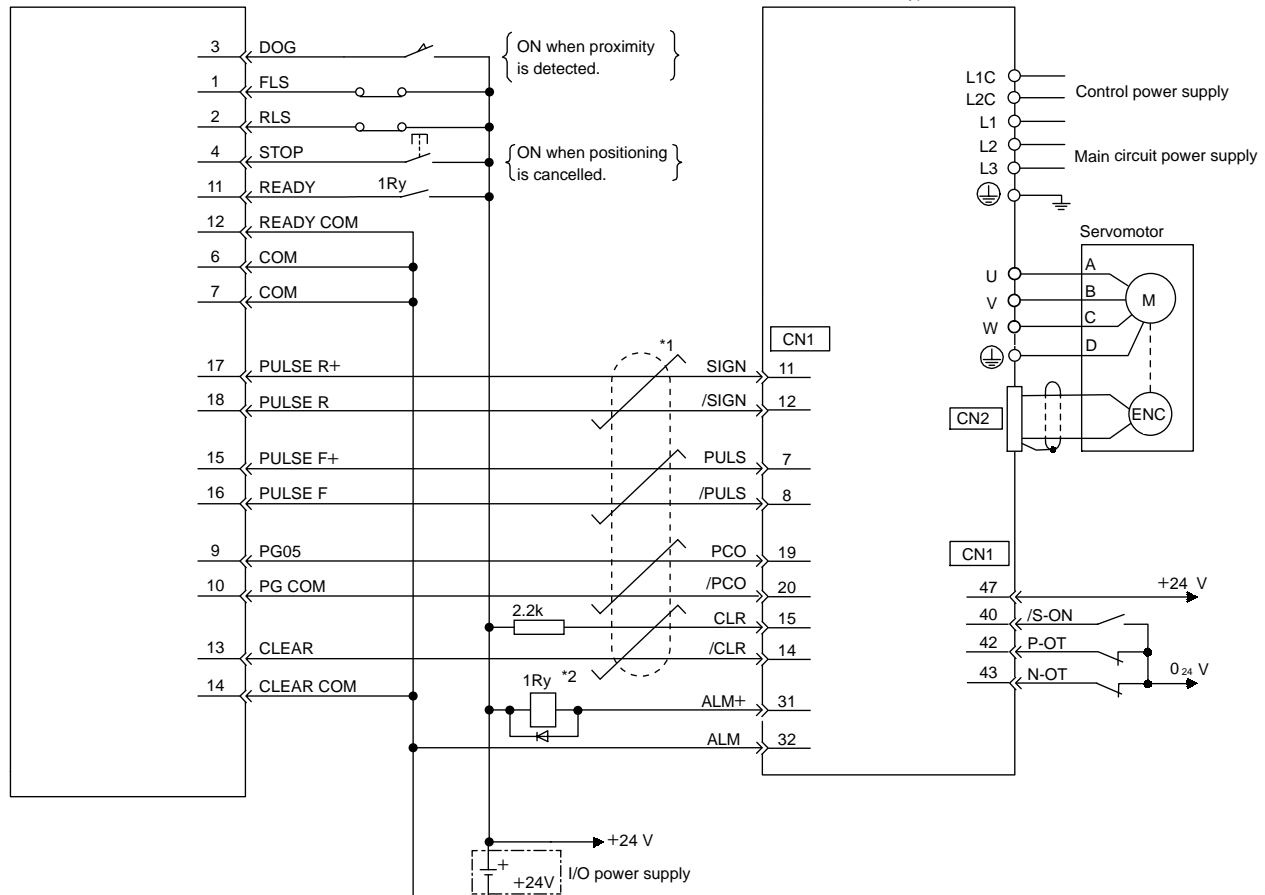
7 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.


8 The SERVOPACK has a built-in safety function to prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.

## Example of Connection to Mitsubishi's QD75D Positioning Unit (SERVOPACK in Positioning Control)

Positioning unit  
QD75D manufactured  
by Mitsubishi  
Electric Corporation

SGDV-0105 SERVOPACK  
(Analog voltage/pulse train  
reference type)



\*1:  represents twisted-pair wires.

\*2: The ALM signal is output for five seconds or less when the power is turned ON. Take this into consideration when designing the power ON sequence. The ALM signal actuates the alarm detection relay "1Ry" to stop the main circuit power supply to the SERVOPACK.

Notes: 1 Only signals applicable to Mitsubishi Electric Corporation's QD75D positioning unit and Yaskawa's SGDV SERVOPACK are shown in the diagram.

2 The main circuit power supply is a three-phase 200 VAC SERVOPACK input in the example.

3 Note that incorrect connection will cause damage to the positioning unit and SERVOPACK. Take particular care to wire correctly.

4 Open the signal lines not to be used.

5 The above connection diagram shows only X-axis connection. When using another axes, make connection to the SERVOPACK in the same way.

6 The normally closed (N.C.) input terminals not to be used at the positioning unit I/O connector section must be short-circuited at the connector.

7 Make the setting so that the servo can be turned ON/OFF by the /S-ON signal.

8 The SERVOPACK has a built-in safety function to prevent anyone in the vicinity from being injured by unexpected motion. But, in order to use the function, the circuit for CN8 is required to be configured. When not using the function, use SERVOPACKs with the Safety Jumper Connector connected.