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Latest revision:
Add page 17 for valve version
Adjust C2 harness connection to page 18

Prepared by, date: 10021267

Approved by, date: 10126686



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RA/RDP

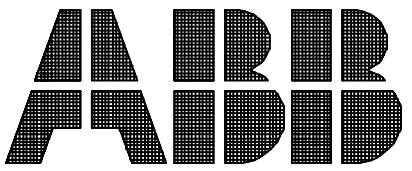
IRB1300
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Plant: =
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Document no.
3HAC068887-003

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Description : IRB1300
 Drawing number : 3HAC068887-003
 Drawing version : 05
 Date :

Customer :
 Year of construction :
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Drawn by : 10021267
 Number of pages : 18
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Valid for:

This circuit diagram is valid for the following cable harness & board unit assemblies:

Cable harness for IRB1300:

- 3HAC067161-004 Main Harness,S,Basic
- 3HAC067161-005 Main Harness,S,Basic+Air+C1
- 3HAC067161-006 Main Harness,S,Basic+Air+C1+C2+C3
- 3HAC067161-007 Main Harness,M,Basic
- 3HAC067161-008 Main Harness,M,Basic+Air+C1
- 3HAC067161-009 Main Harness,M,Basic+Air+C1+C2+C3
- 3HAC067161-010 Main Harness,L,Basic
- 3HAC067161-011 Main Harness,L,Basic+Air+C1
- 3HAC067161-012 Main Harness,L,Basic+Air+C1+C2+C3


3HAC067163-001 Brake Release Unit

- 3HAC067164-004 Process Hub, Basic
- 3HAC067164-005 Process Hub, Basic+Air+C1
- 3HAC067164-006 Process Hub, Basic+Air+C1+C2+C3
- 3HAC072628-004 Process Hub, Basic+Air+C1+C2+C3+Valve

Board unit for IRB1300:

3HAC065316-001 SMB Unit

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2020-05-20 First version Ver00

2020-07-10 Rev01

Page 10 Revise R1.MP connectors to 1,2,5

2020-08-14 Rev02

Page 10-15,17 Add twisted cable mark for motor phase/brake/Ethernet cable

Page 16 Change C3 maximum rating to 60V DC

2021-01-27 Rev03

Page 16 Change maximum rating in C3 wire to 42V DC

Add R1.C1 floor cable information

Page 17 Revise C2 twisted pairs to reference

2022-01-13 Rev04

Page 8 Change Brake Release Unit circuit

2024-02-02 Rev05

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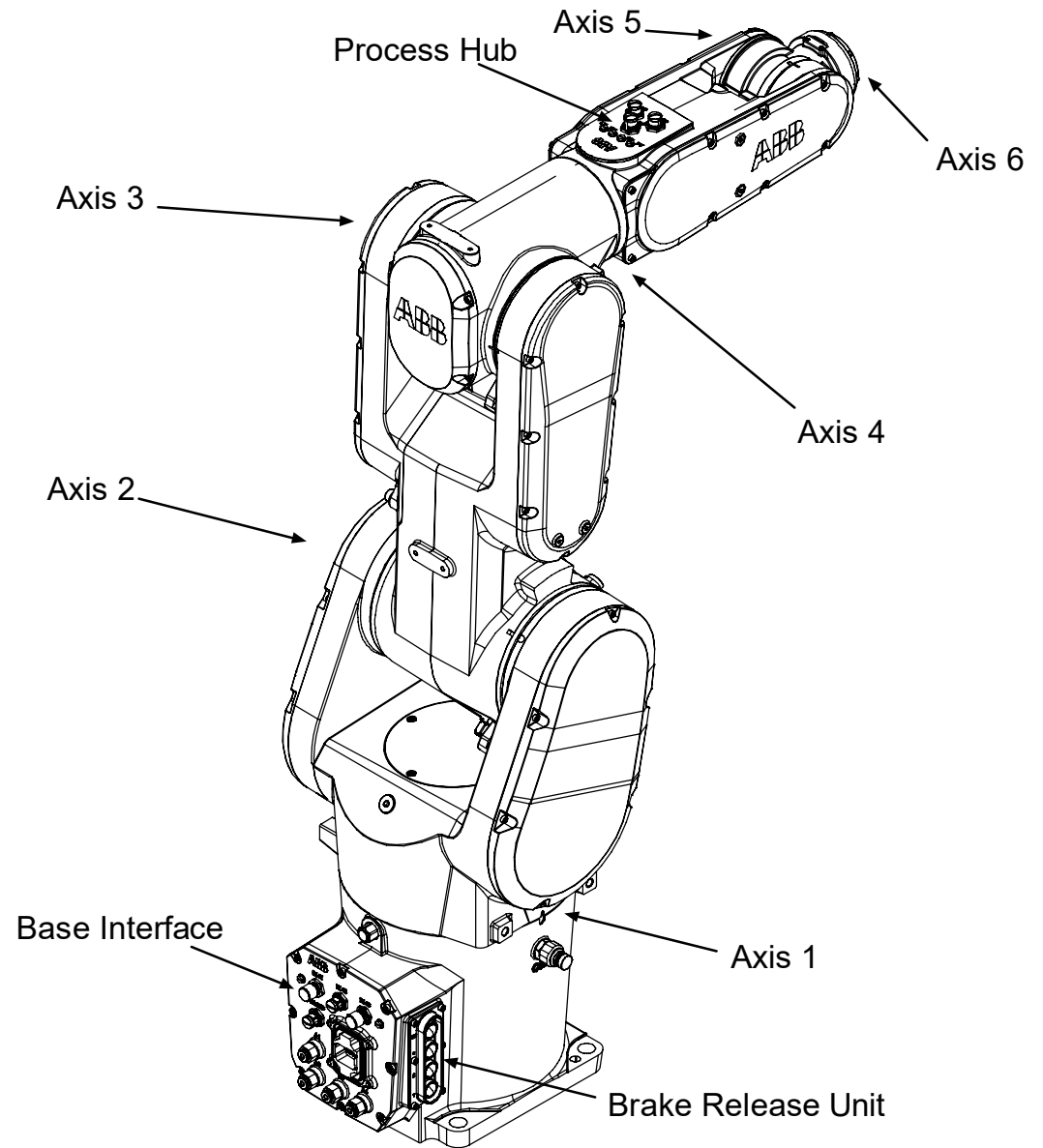
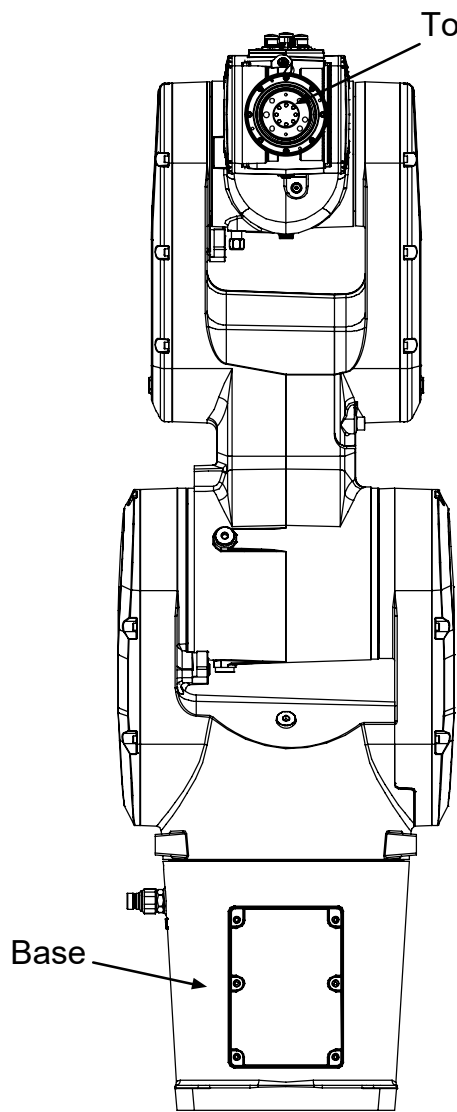
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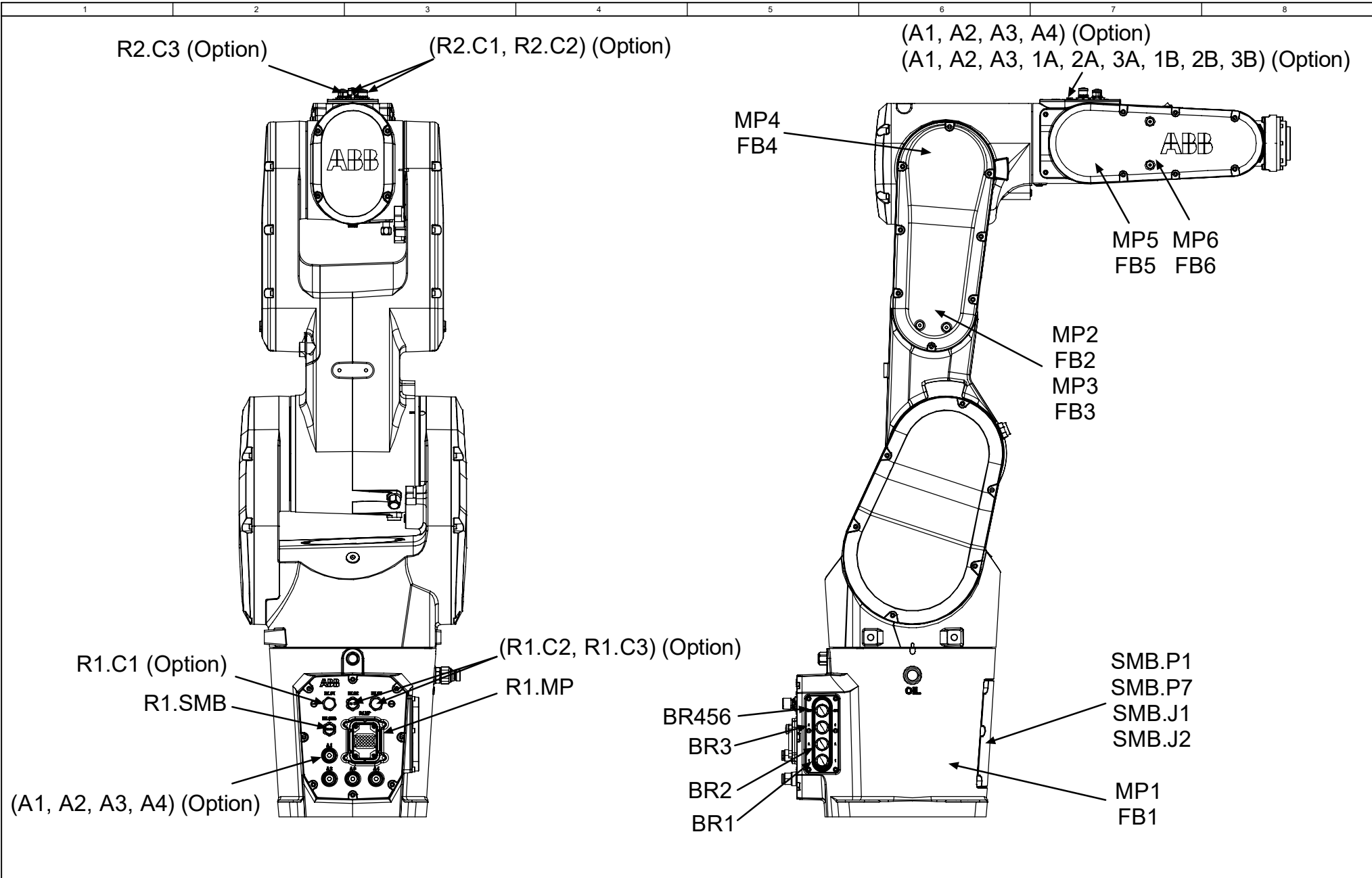


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 SYSTEM OVERVIEW

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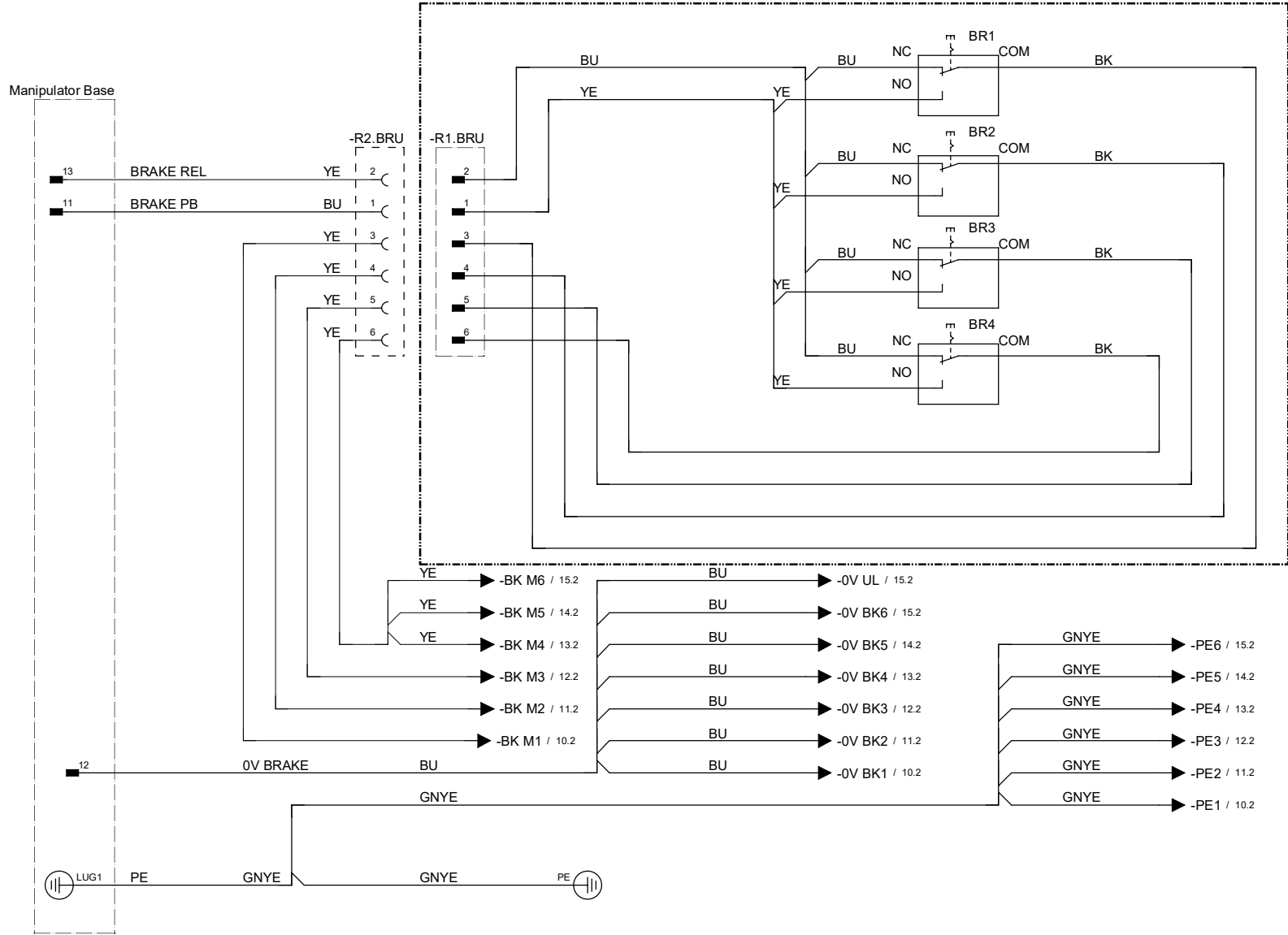
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Brake Release Unit



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 BRAKE RELEASE UNIT

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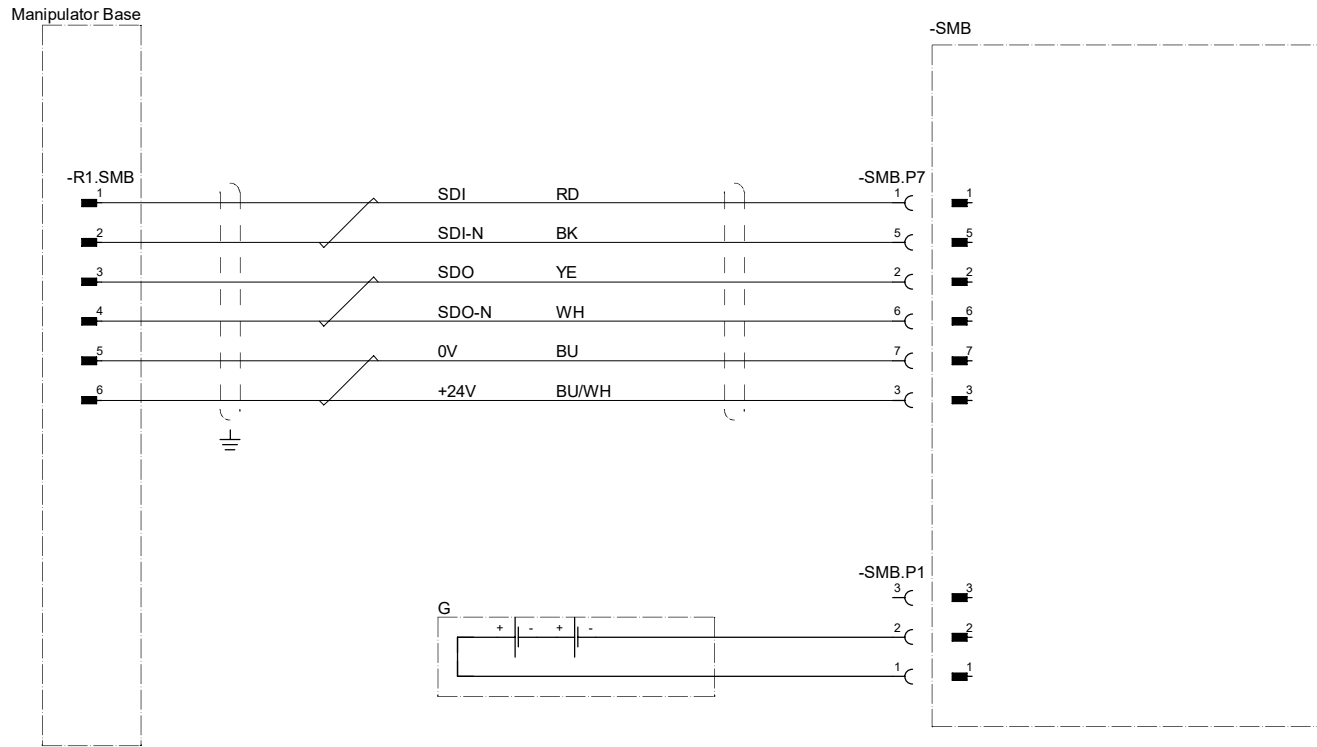
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SERIAL MEASUREMENT BOARD

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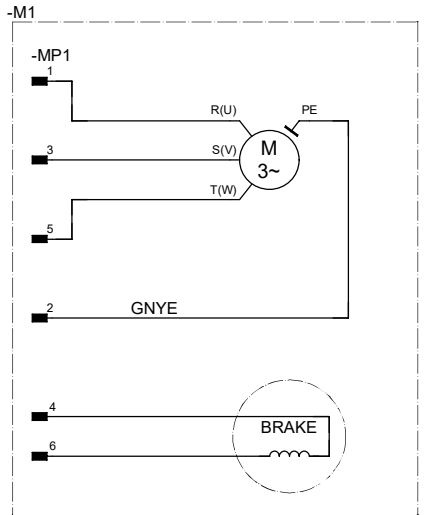
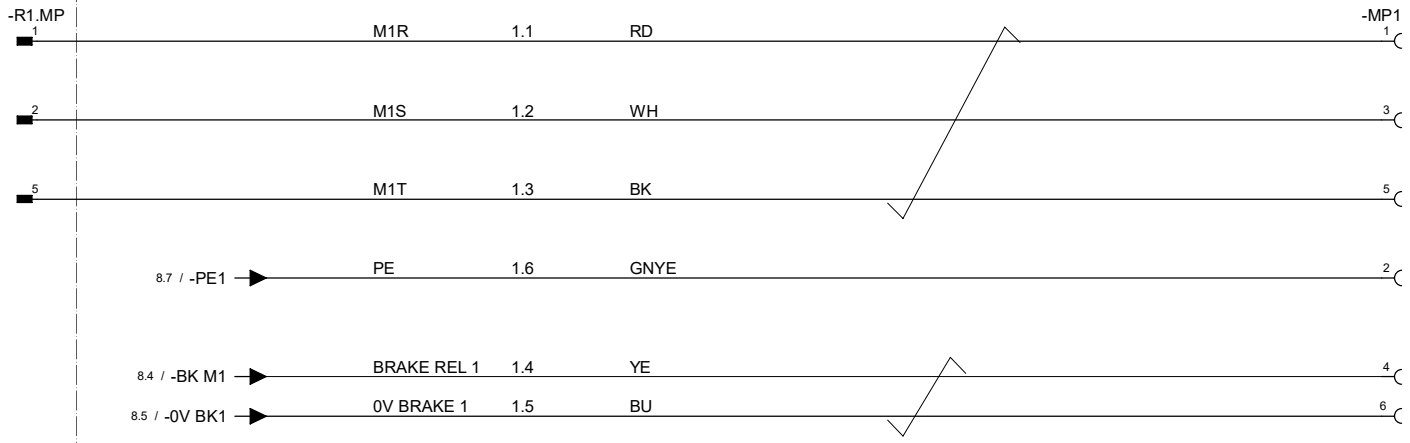
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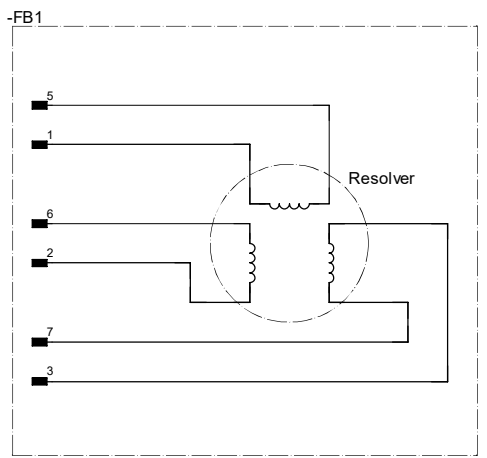
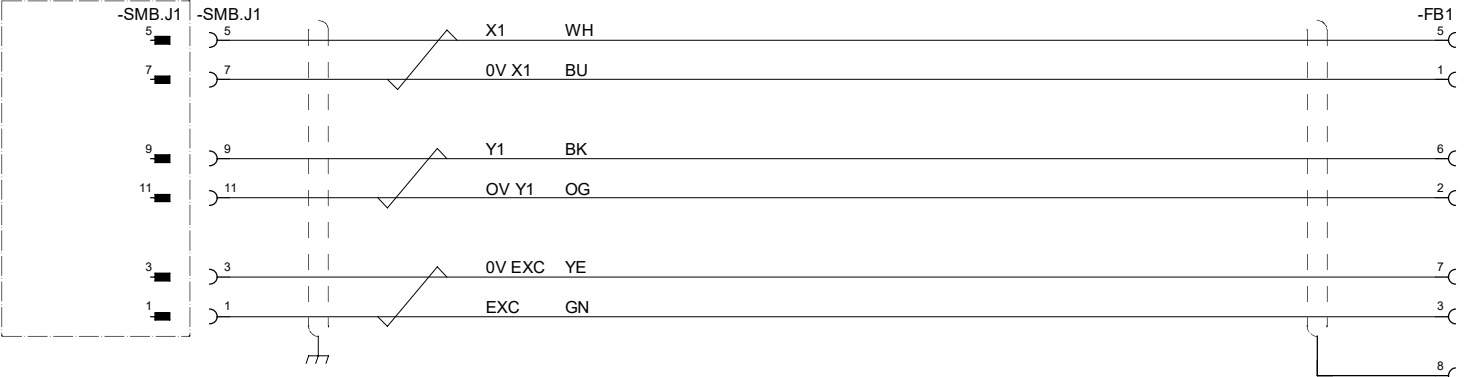
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Manipulator Base



-SMB



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AXIS 1

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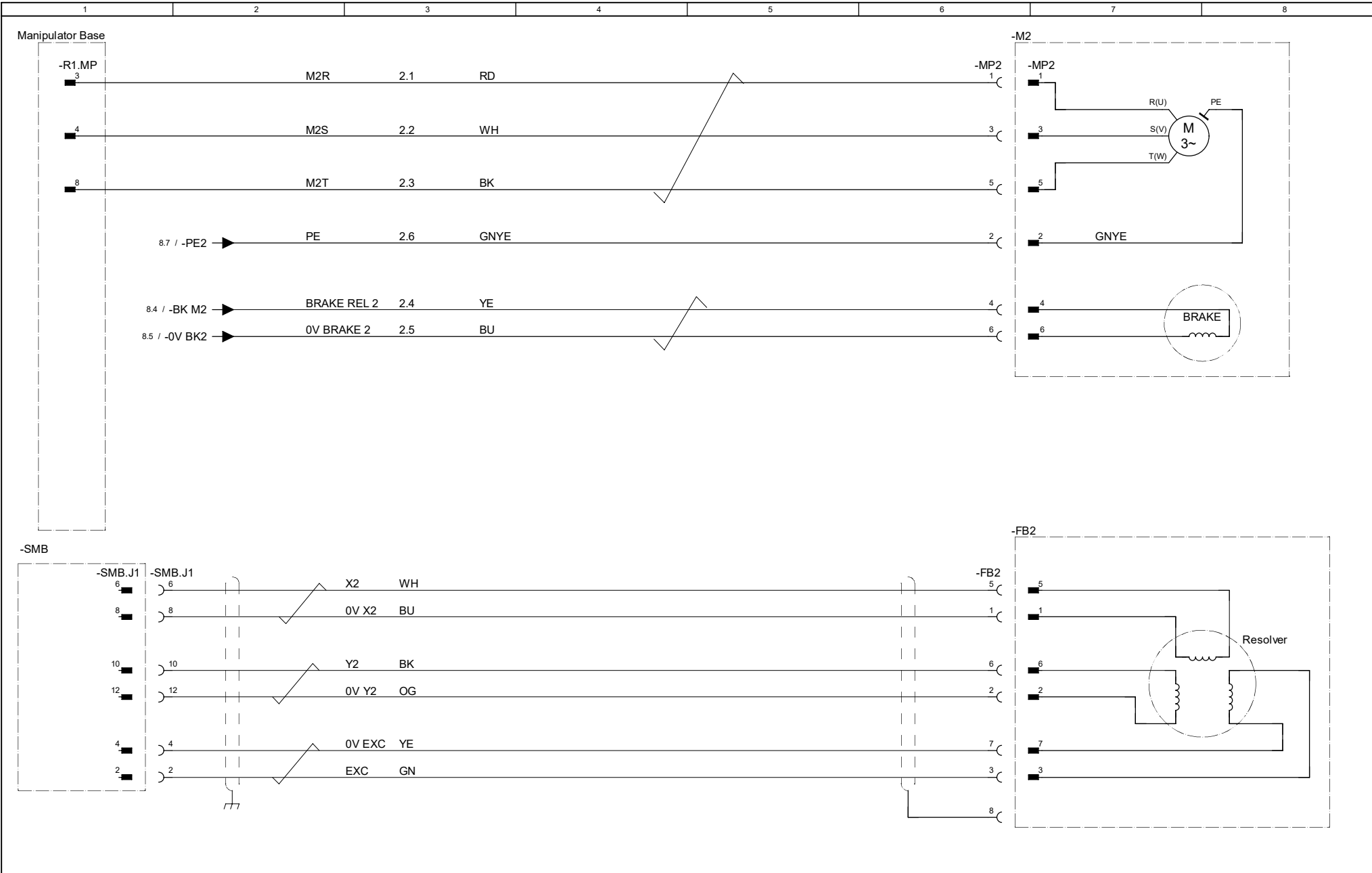
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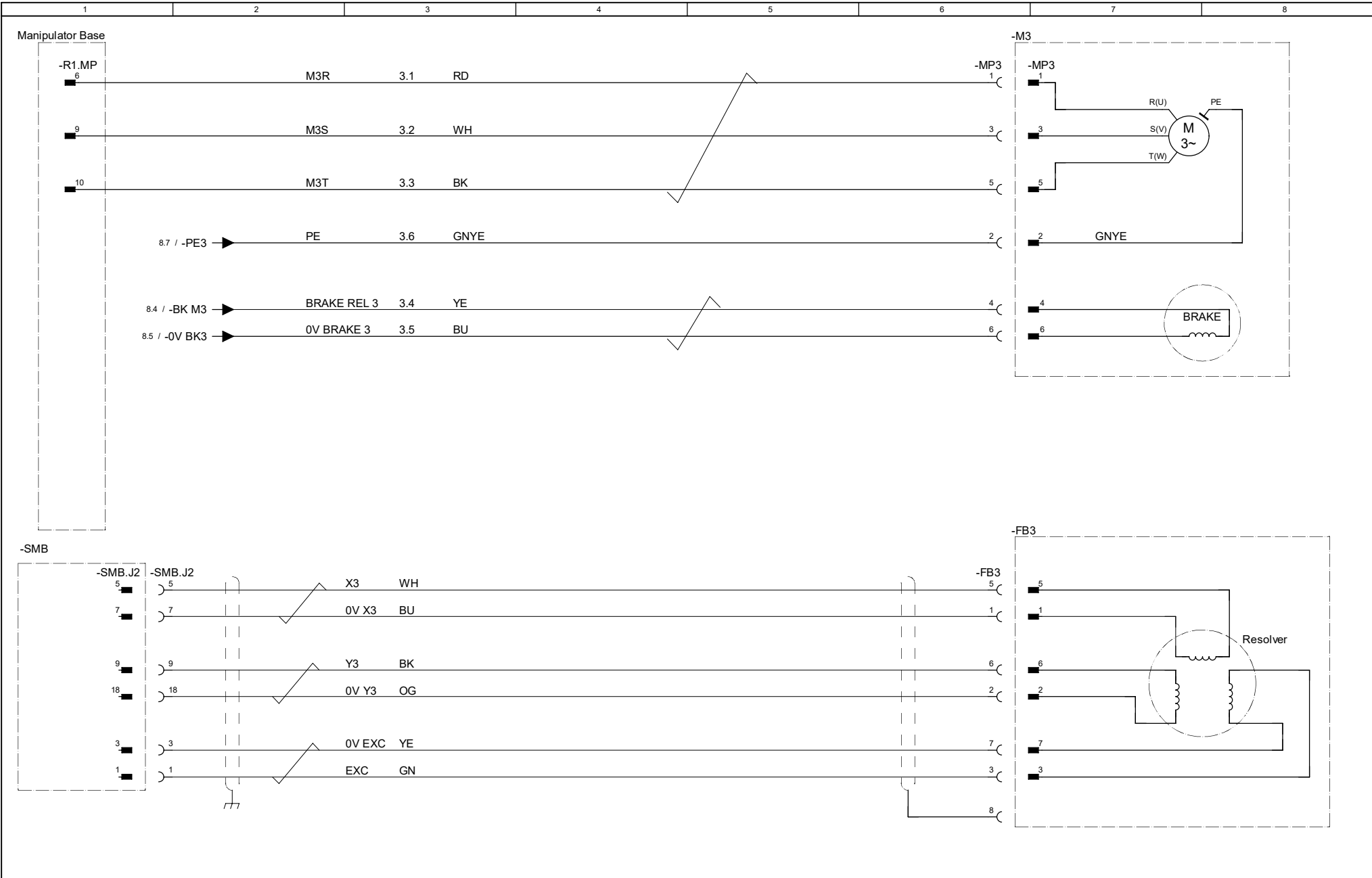


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 AXIS 2

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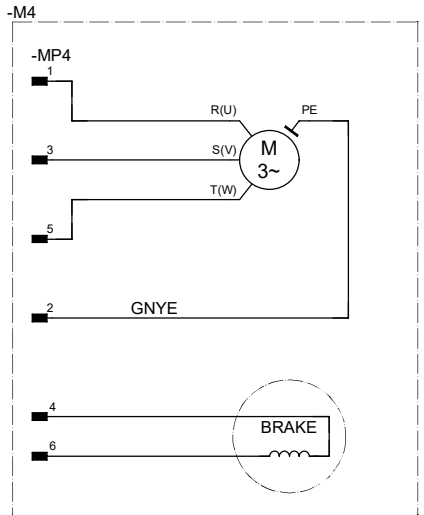
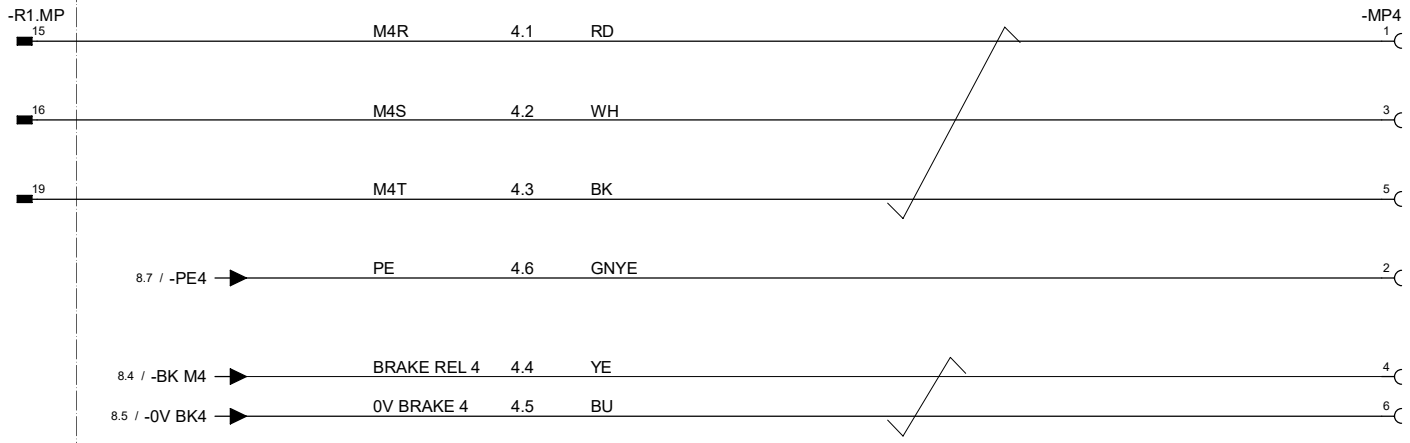


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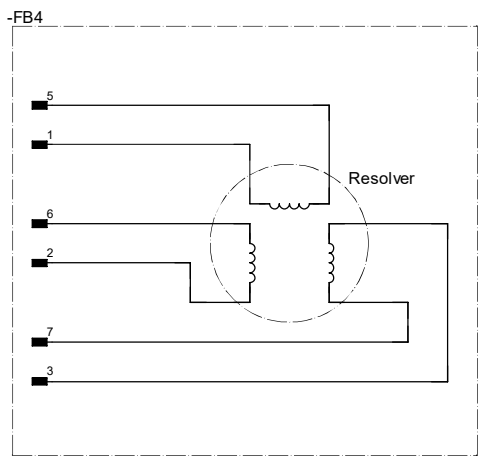
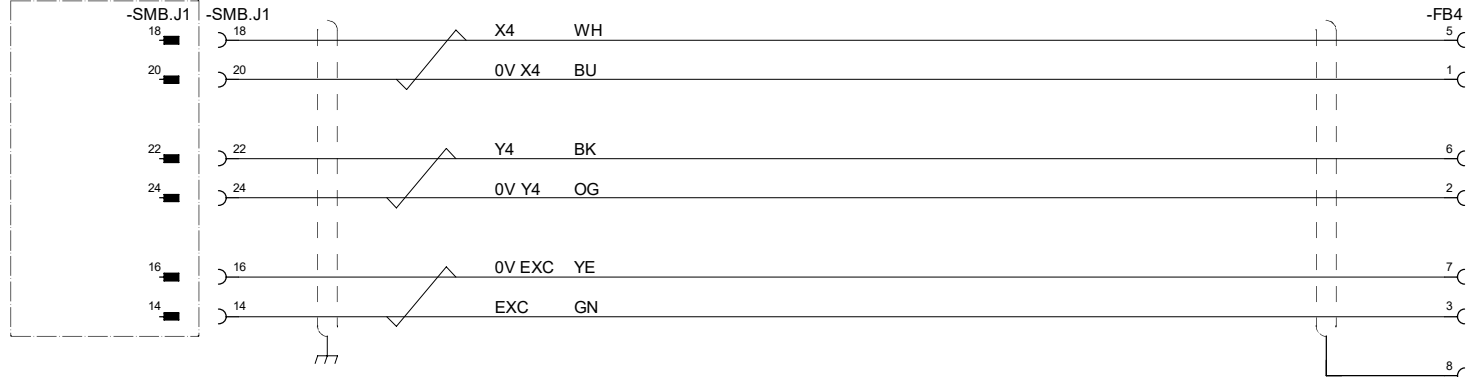
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Manipulator Base



-SMB



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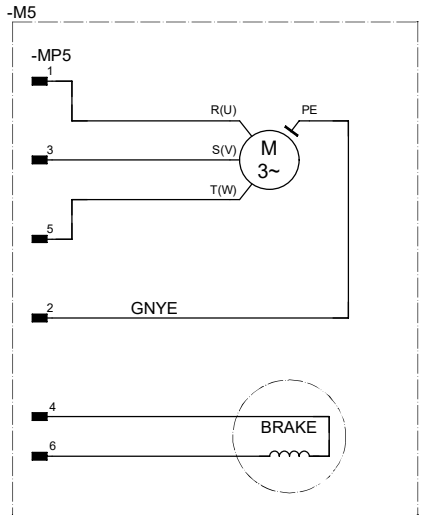
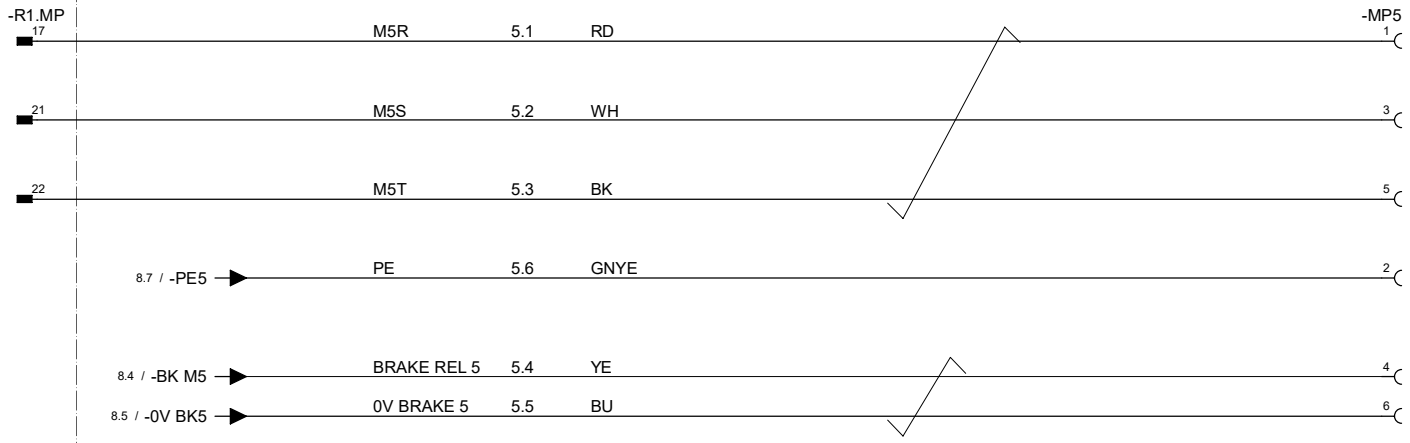
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 AXIS 4

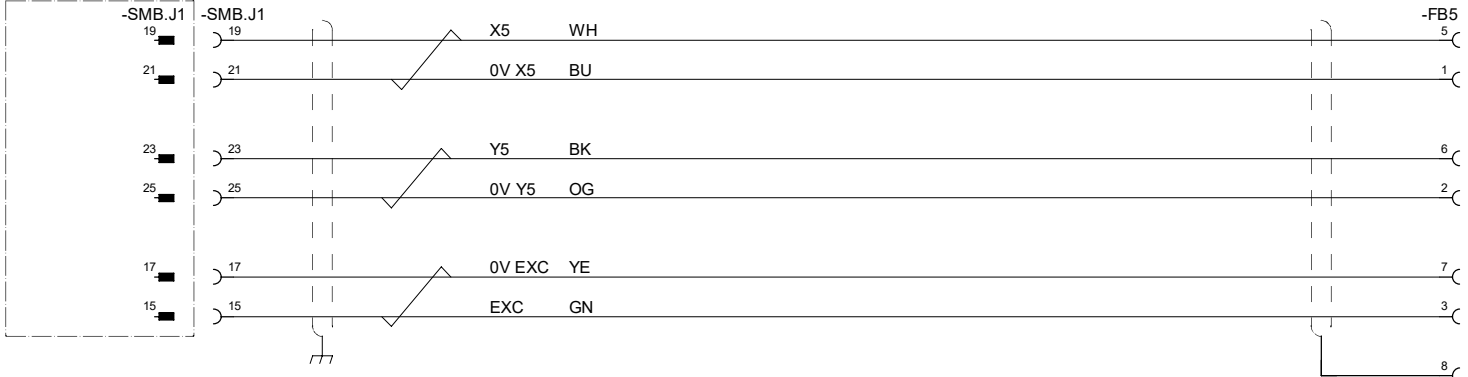
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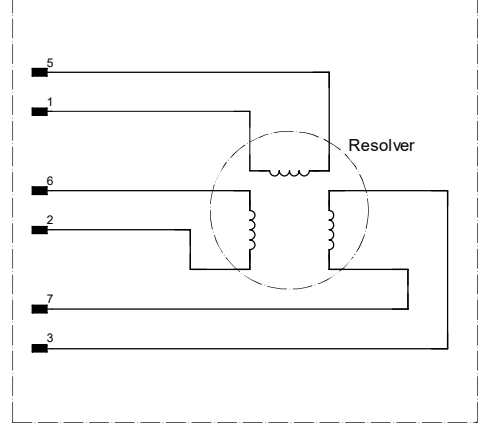
Manipulator Base



-SMB



-FB5



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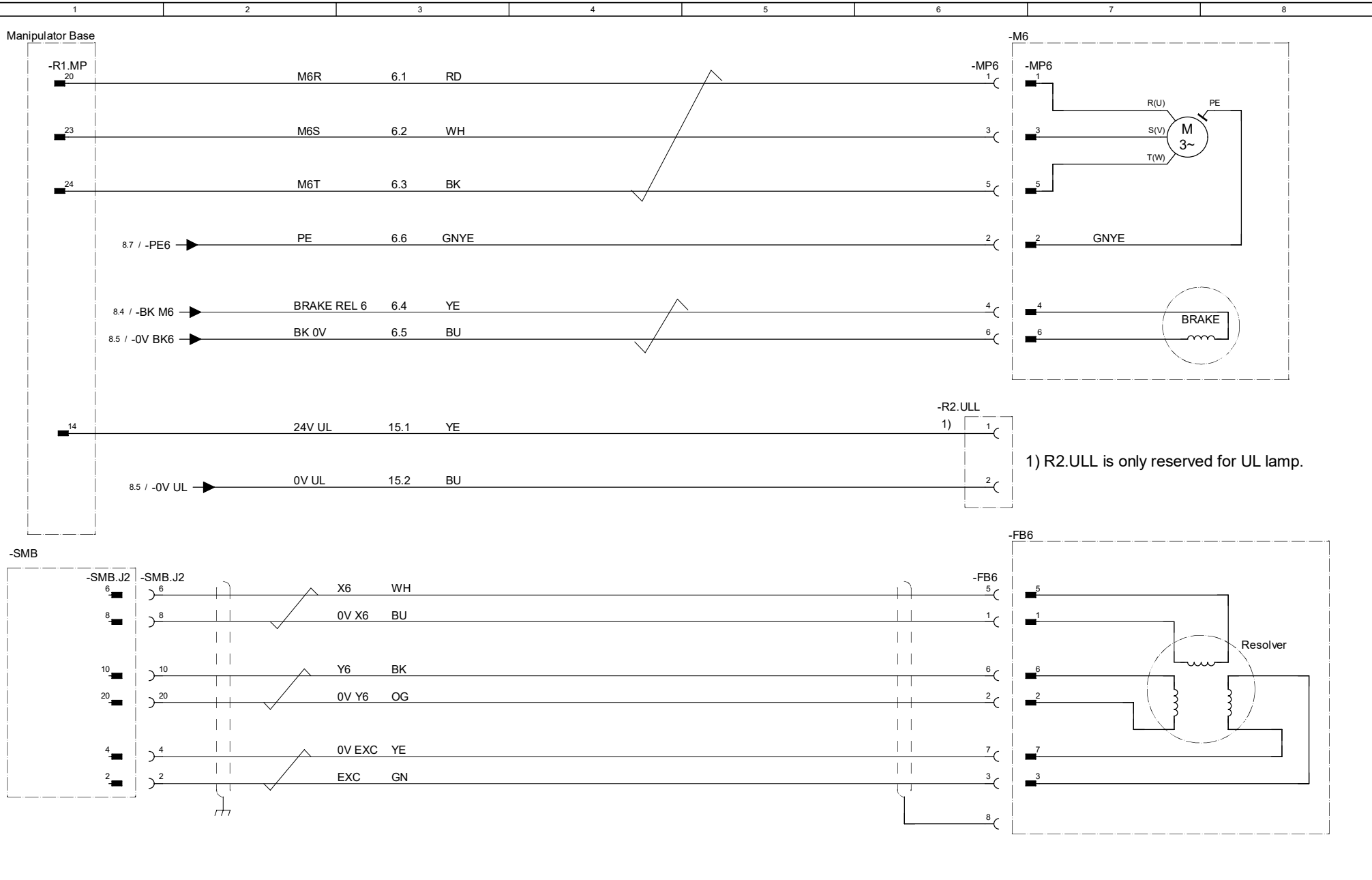
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1) R2.ULL is only reserved for UL lamp.

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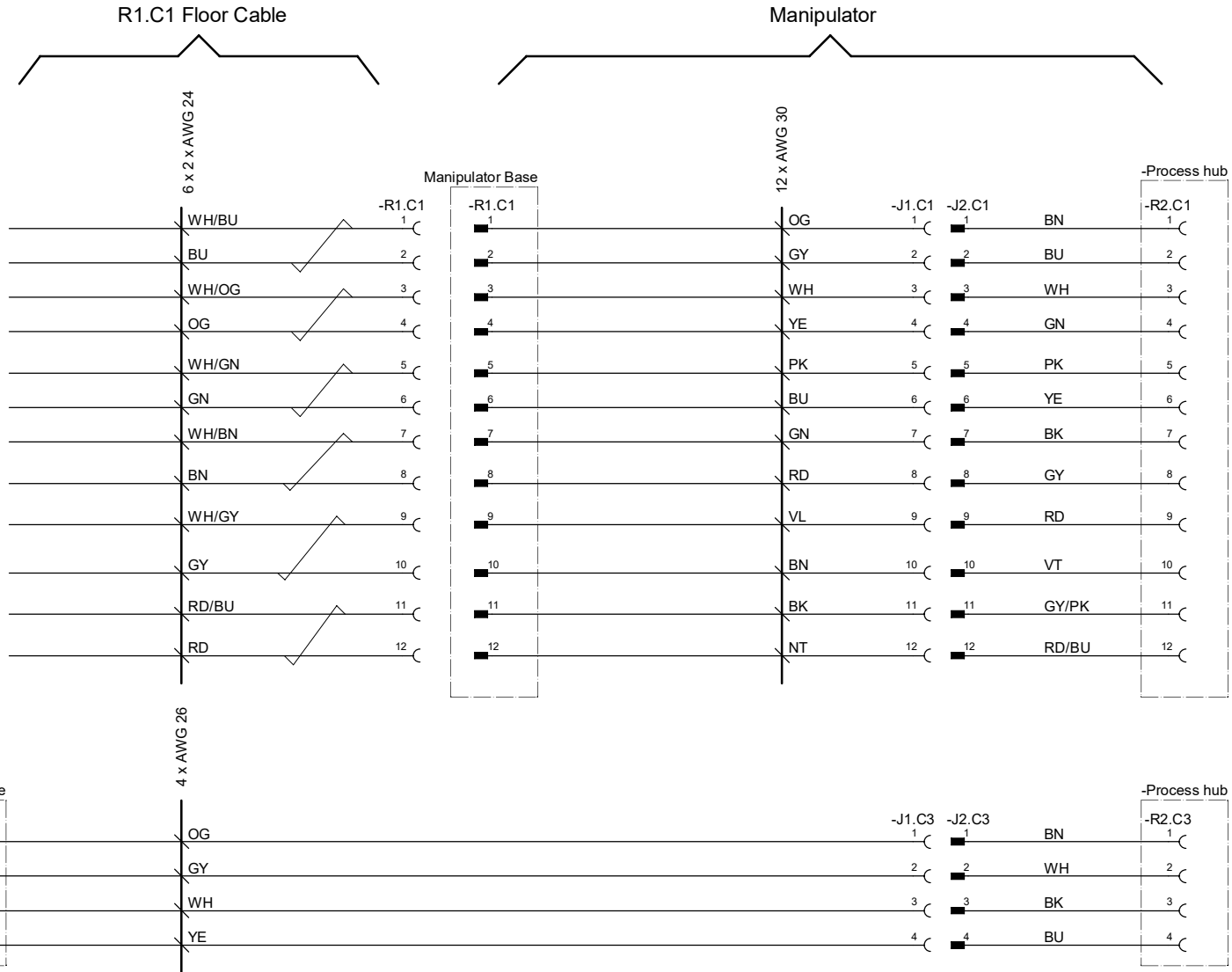
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Free end wire



Note : 1) Maximum rating in each C1 wire: 30V, 1.5A. Stresses above the limitation may cause permanent damage to the manipulator.
 Note : 2) Maximum rating in each C3 wire: 42V DC or 25V AC, 4A. Stresses above the limitation may cause permanent damage to the manipulator

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 CUSTOMER CONNECTION - STANDARD

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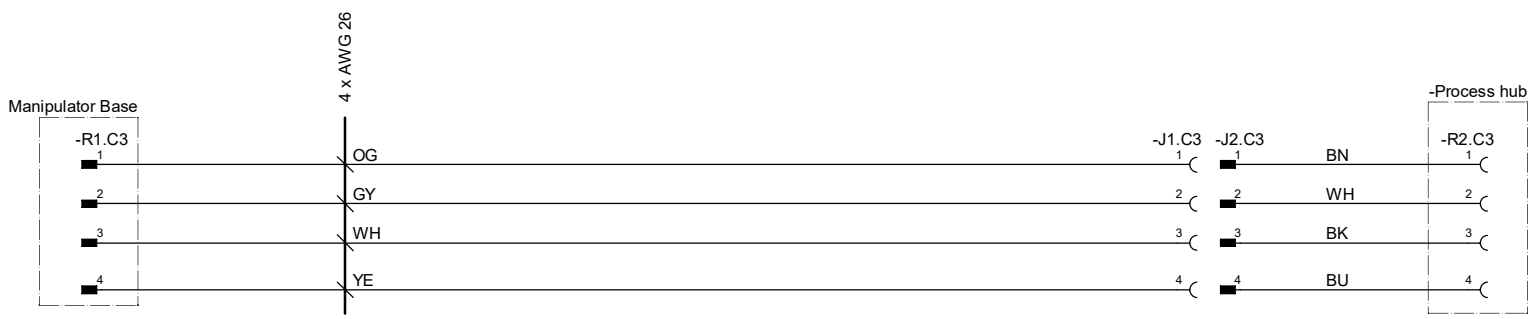
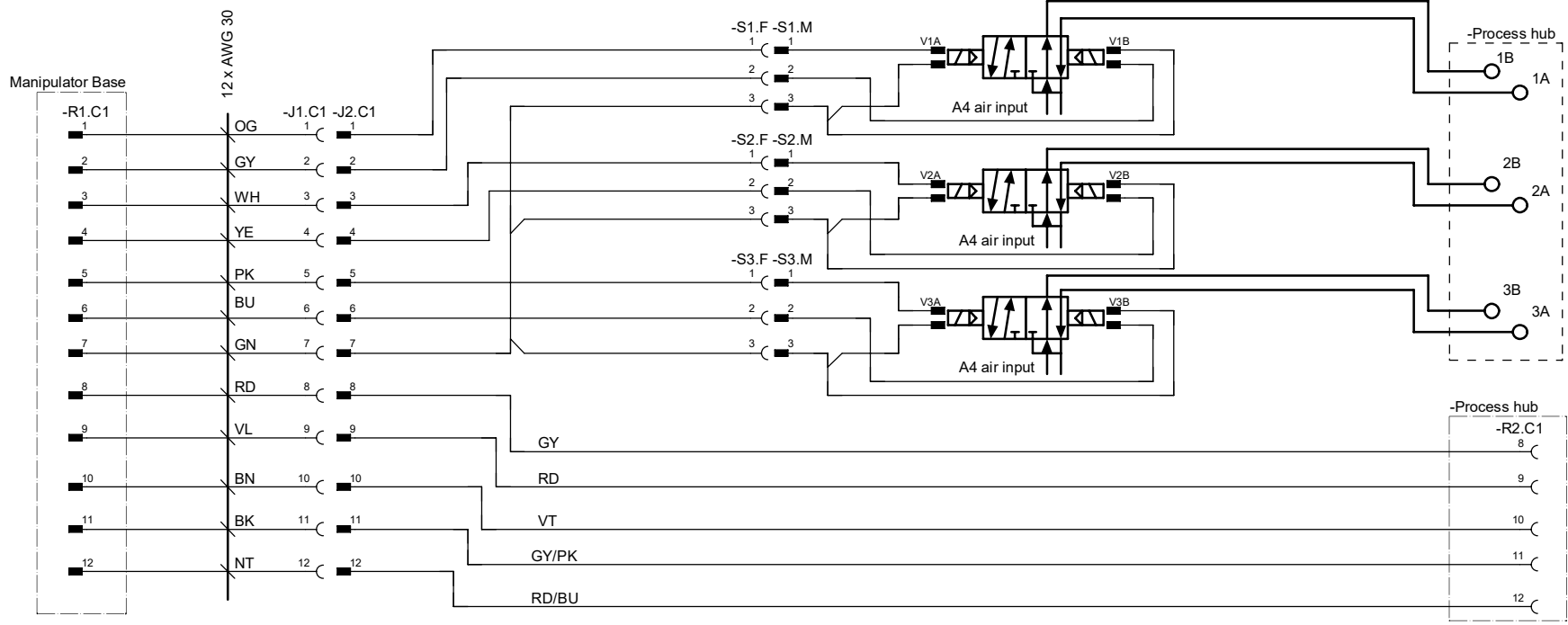
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Note : 1) Valve operation voltage (1th ~7th pin): 24V DC ± 10%; Maximum rating in each C1 wire (8th ~12nd pin): 30V, 1.5A.

Stresses above the limitation may cause permanent damage to the manipulator.

Note : 2) Maximum rating in each C3 wire: 42V DC or 25V AC, 4A. Stresses above the limitation may cause permanent damage to the manipulator

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CUSTOMER CONNECTION - VALVE

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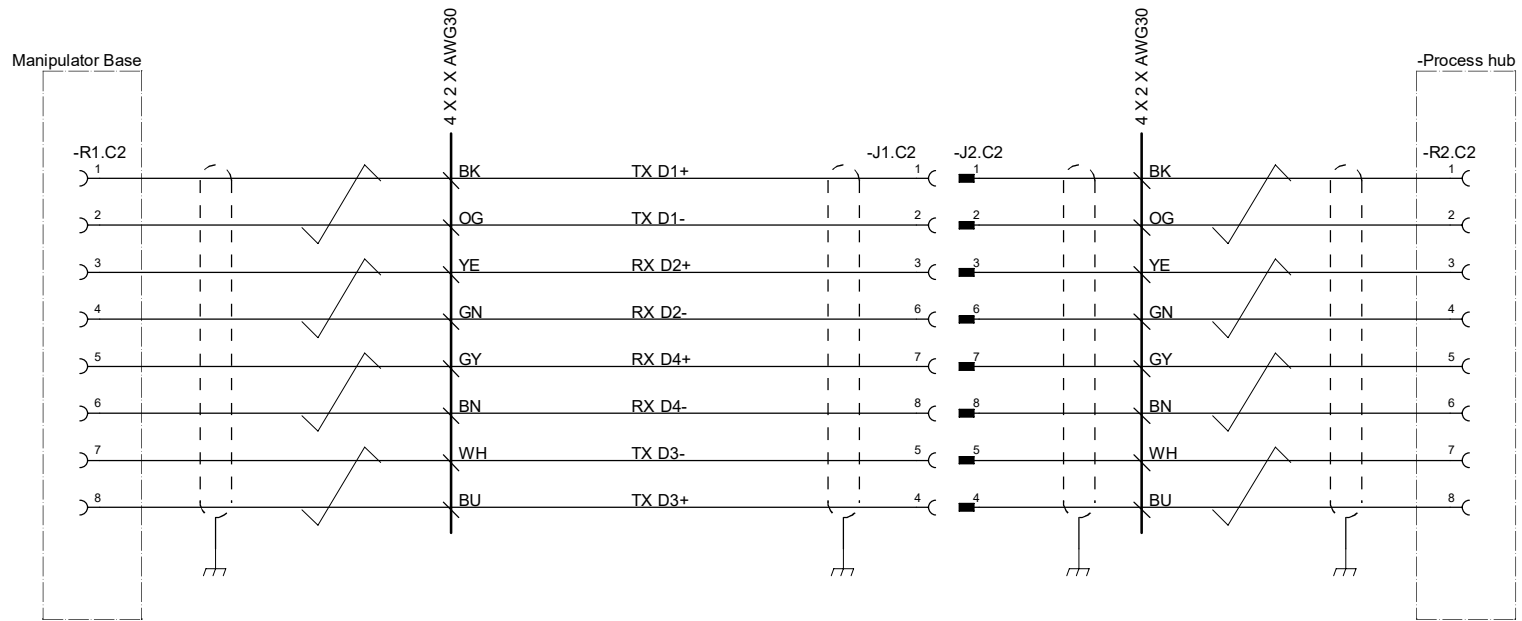
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Note : 1): Ethernet cable connecting instruction 3HAC063936-005

Note : 2): Maximum rating in each C2 wire: 30V, 1A (when not using for Ethernet). Stresses above the limitation may cause permanent damage to the manipulator.

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 ETHERNET CONNECTION

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