

# PARTS CATALOG

**R454B**

**No. OCB869**  
**REVISED EDITION-C**

## Outdoor unit

### [Model Name]

PUZ-AK36NL

PUZ-AK42NL

PUZ-AK48NL

PUZ-AK60NL

PUY-AK36NL

PUY-AK42NL

PUY-AK48NL

PUY-AK60NL

SUZ-AK48NL

SUZ-AK60NL

### [Service Ref.]

**PUZ-AK36NL-U1**

**PUZ-AK42NL-U1**

**PUZ-AK48NL-U1**

**PUZ-AK60NL-U1**

**PUY-AK36NL-U1**

**PUY-AK42NL-U1**

**PUY-AK48NL-U1**

**PUY-AK60NL-U1**

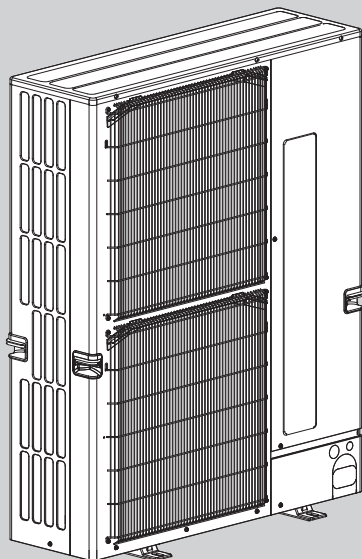
**SUZ-AK48NL-U1**

**SUZ-AK60NL-U1**

### Revision:

- Some contents have been added in REVISED EDITION-C.

OCB869B is void.



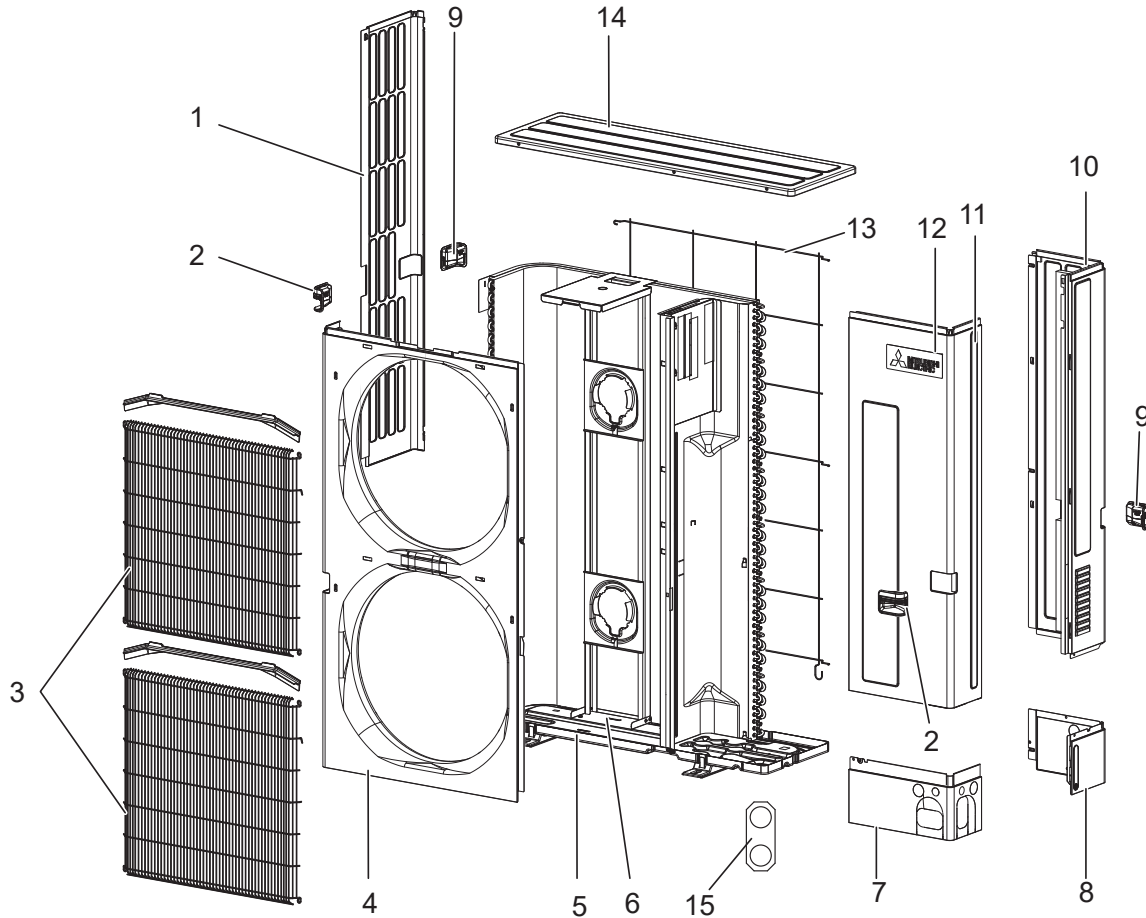
**PUZ-AK36/42/48/60NL-U1**  
**PUY-AK36/42/48/60NL-U1**  
**SUZ-AK48/60NL-U1**

## CONTENTS

1. SERVICE PARTS LIST ..... 2

**SERVICE MANUAL (OCH869)**

## STRUCTURAL PARTS



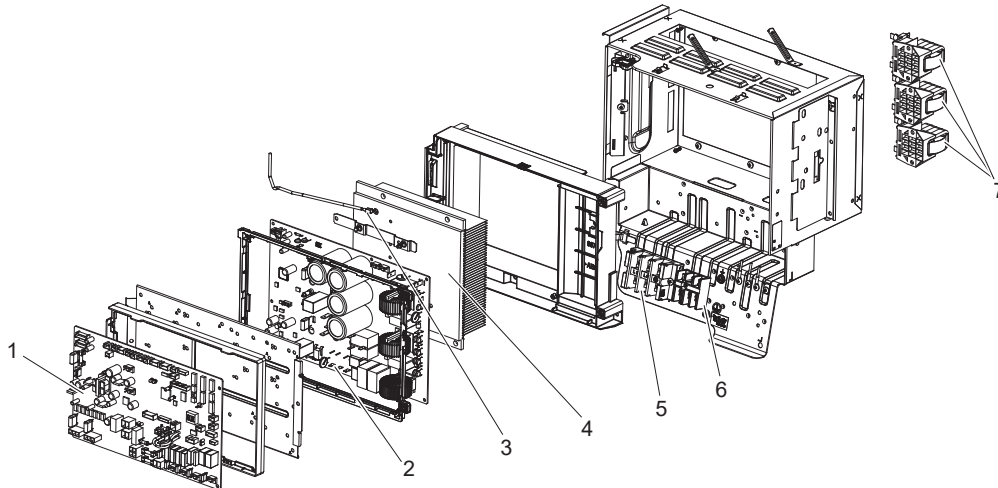
1. The part quantity below indicates the required number of pieces per unit.

2. The circled No. indicates that the part is not shown in the figure.

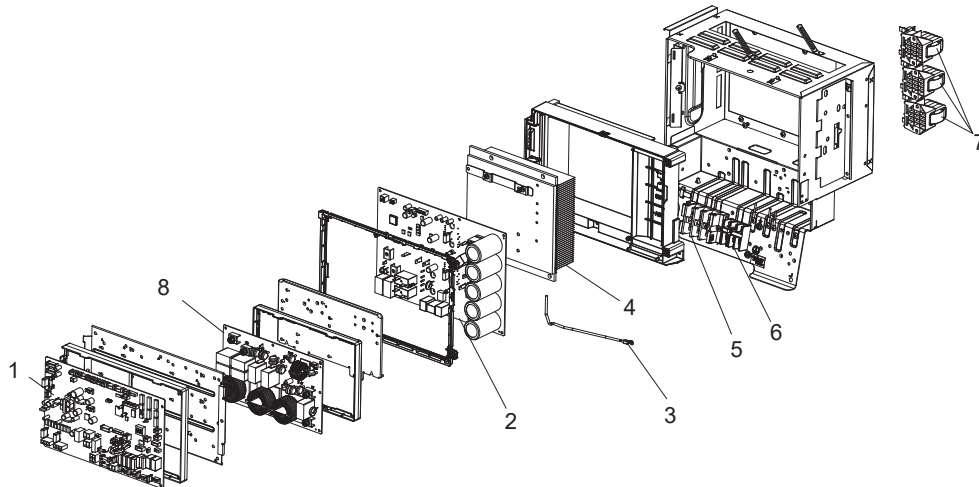
| No. | Part No.          | Part Name           | PUZ-AK36NL-U1 | PUZ-AK42NL-U1 | PUZ-AK48NL-U1 | PUZ-AK60NL-U1 | PUY-AK36NL-U1 | PUY-AK42NL-U1 | PUY-AK48NL-U1 | PUY-AK60NL-U1 | SUZ-AK48NL-U1 | SUZ-AK60NL-U1 | Remarks |
|-----|-------------------|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|
| 1   | R 0 1 E 3 0 6 6 2 | SIDE PANEL (L)      | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 2   | R 0 1 E 0 5 6 5 5 | HANDLE (FRONT)      | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |         |
| 3   | R 0 1 E 7 3 6 9 1 | WIRE GRILLE         | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |         |
| 4   | R 0 1 E 2 3 6 6 8 | FRONT PANEL         | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 5   | T 7 W E 3 8 6 8 6 | BASE ASSY           | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 6   | R 0 1 E 5 9 1 3 0 | MOTOR SUPPORT       | 1             | 1             |               |               | 1             | 1             |               |               |               |               |         |
| 6   | R 0 1 E 6 0 1 3 0 | MOTOR SUPPORT       |               |               | 1             | 1             |               |               | 1             | 1             | 1             | 1             |         |
| 7   | R 0 1 E 3 5 6 5 8 | COVER PANEL (FRONT) | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 8   | R 0 1 E 3 6 6 5 8 | COVER PANEL (REAR)  | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 9   | R 0 1 E 0 6 6 5 5 | HANDLE (REAR)       | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             | 2             |         |
| 10  | T 7 W E 4 9 6 6 1 | SIDE PANEL (R)      | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 11  | T 7 W E 2 9 6 6 8 | SERVICE PANEL       | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 12  | R 0 1 A 1 3 0 0 5 | BRAND LABEL         | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 13  | R 0 1 E 1 0 6 9 8 | REAR GUARD          | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 14  | T 7 W E 2 2 6 4 1 | TOP PANEL           | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |
| 15  | T 7 W E 0 4 6 1 7 | CONDUIT PLATE       | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             |         |

## ELECTRICAL PARTS

PUZ-AK36NL-U1    PUZ-AK42NL-U1  
PUY-AK36NL-U1    PUY-AK42NL-U1



PUZ-AK48NL-U1    PUZ-AK60NL-U1  
PUY-AK48NL-U1    PUY-AK60NL-U1  
SUZ-AK48NL-U1    SUZ-AK60NL-U1



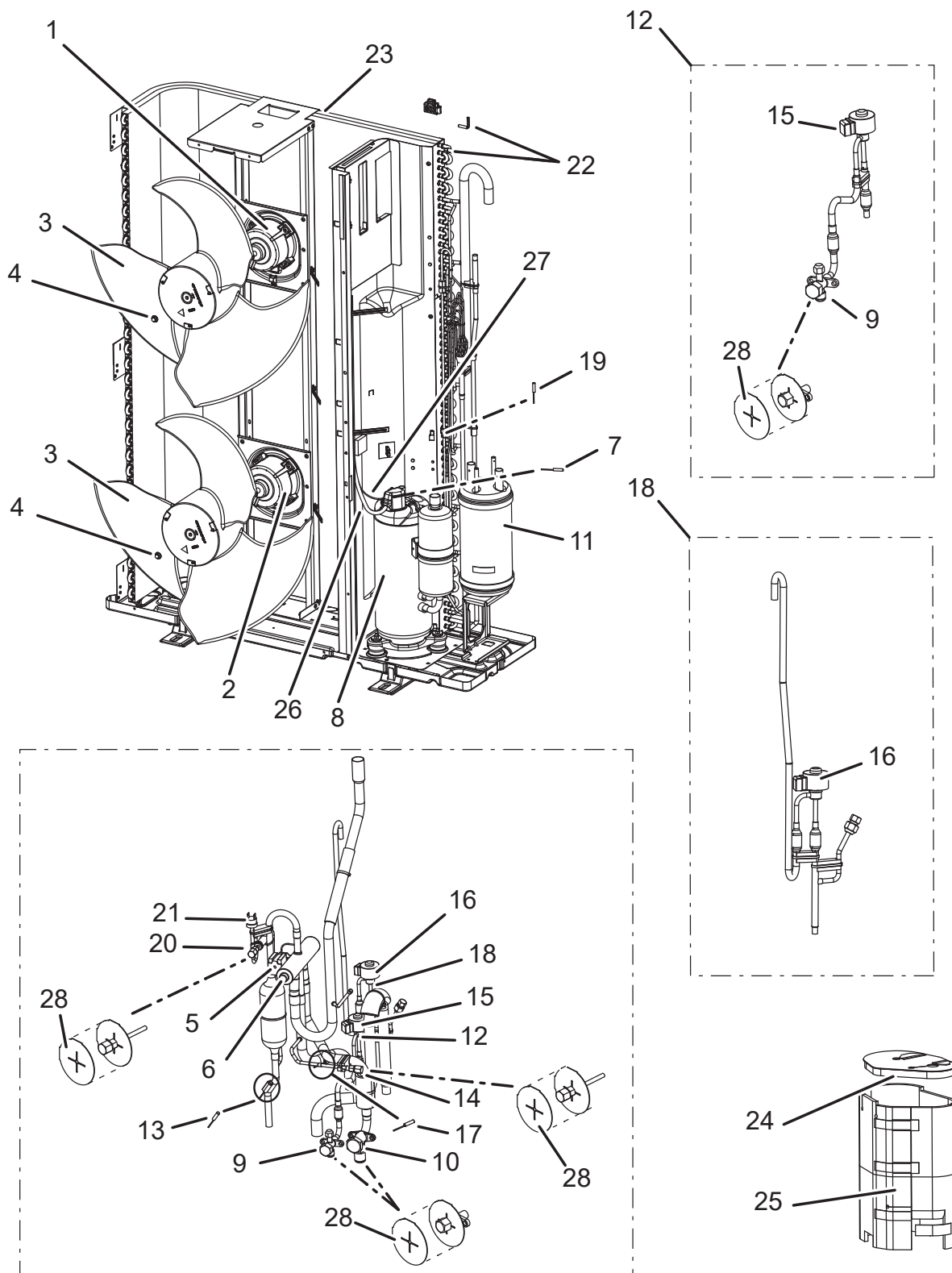
1. The part quantity below indicates the required number of pieces per unit.
2. The circled No. indicates that the part is not shown in the figure.

| No. | Part No.    | Part Name        | PUZ-AK36NL-U1 | PUZ-AK42NL-U1 | PUZ-AK48NL-U1 | PUZ-AK60NL-U1 | PUY-AK36NL-U1 | PUY-AK42NL-U1 | PUY-AK48NL-U1 | PUY-AK60NL-U1 | SUZ-AK48NL-U1 | SUZ-AK60NL-U1 | Wiring Diagram Symbol | Remarks        |
|-----|-------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------|----------------|
| 1   | T7W SA2 315 | CONTROLLER BOARD | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | C.B.                  |                |
| 2   | T7W S01 373 | POWER BOARD      | 1             | 1             |               |               | 1             | 1             |               |               |               |               | P.B.                  |                |
| 2   | T7W S02 373 | POWER BOARD      |               |               | 1             | 1             |               |               | 1             | 1             | 1             | 1             | P.B.                  |                |
| 3   | R01 M52 202 | THERMISTOR(HS)   | 1             | 1             |               |               | 1             | 1             |               |               |               |               | TH8 (Heat Sink)       |                |
| 3   | R01 M16 202 | THERMISTOR(HS)   |               |               | 1             | 1             |               |               | 1             | 1             | 1             | 1             | TH8 (Heat Sink)       |                |
| 4   | R01 A26 371 | HEAT SINK        | 1             | 1             |               |               | 1             | 1             |               |               |               |               |                       | Includes SCREW |
| 4   | R01 A27 371 | HEAT SINK        |               |               | 1             | 1             |               |               | 1             | 1             | 1             | 1             |                       | Includes SCREW |
| 5   | T7W P05 246 | T.B./L1.L2.E     | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | TB1 (L1/L2/E)         |                |
| 6   | T7W S03 246 | T.B./S1.S2.S3    | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | 1             | TB2 (S1/S2/S3)        |                |
| 7   | R01 E56 259 | REACTOR          | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | 3             | DCL                   |                |
| 8   | T7W E54 346 | NOISE FILTER     |               |               | 1             | 1             |               |               | 1             | 1             | 1             | 1             | N.F.                  |                |

# FUNCTIONAL PARTS

PUZ-AK36NL-U1 PUZ-AK42NL-U1

PUY-AK36NL-U1 PUY-AK42NL-U1



1. The part quantity below indicates the required number of pieces per unit.  
2. The circled No. indicates that the part is not shown in the figure.

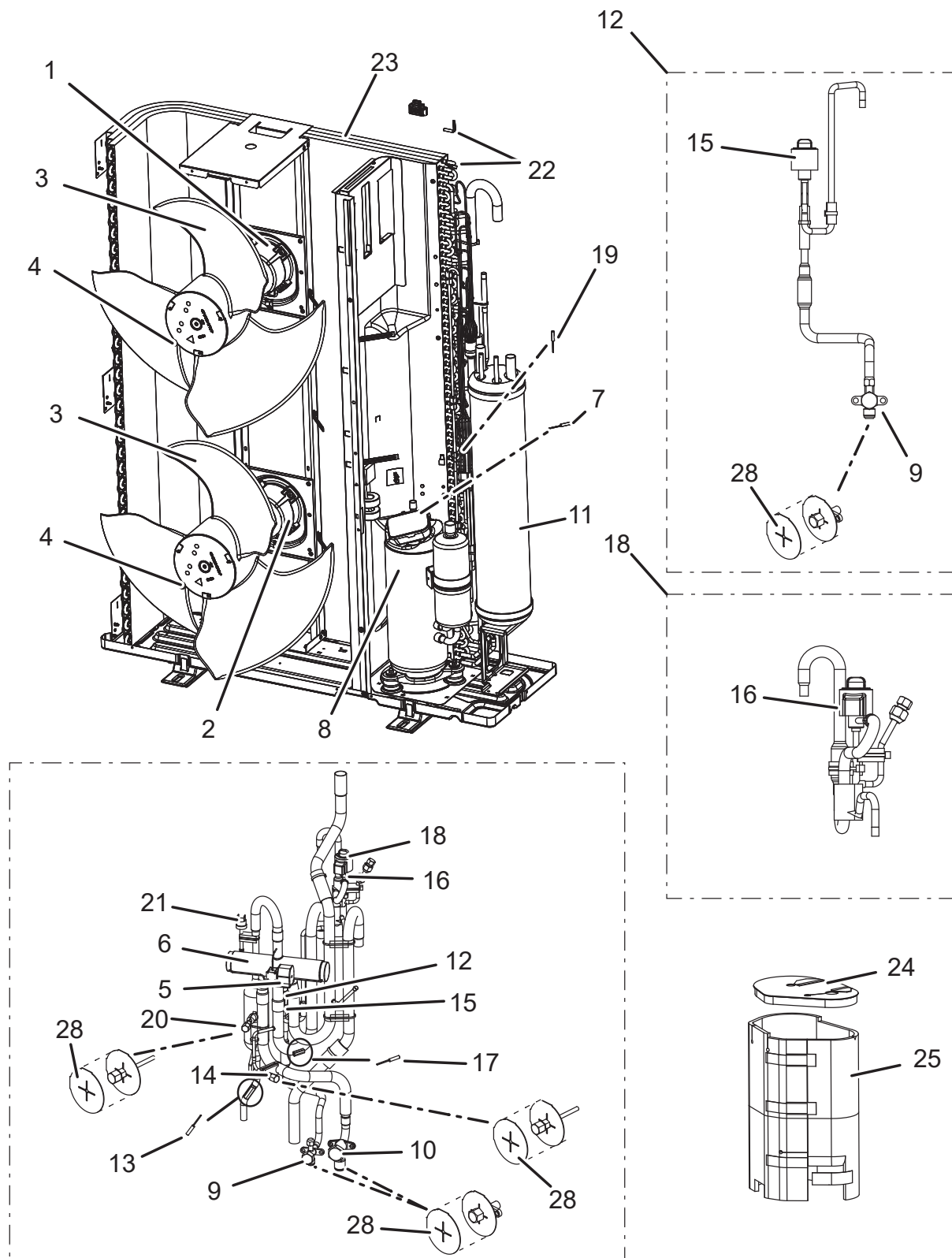
| No. | Part No.    | Part Name            | PUZ-AK36NL-U1 | PUZ-AK42NL-U1 | PUY-AK36NL-U1 | PUY-AK42NL-U1 | Wiring Diagram Symbol                     | Remarks                             |
|-----|-------------|----------------------|---------------|---------------|---------------|---------------|-------------------------------------------|-------------------------------------|
| 1   | T7W A21 221 | FAN MOTOR            | 1             | 1             | 1             | 1             | MF1                                       |                                     |
| 2   | T7W A24 221 | FAN MOTOR            | 1             | 1             | 1             | 1             | MF2                                       |                                     |
| 3   | R01 E16 115 | PROPELLER FAN/D550   | 2             | 2             | 2             | 2             |                                           |                                     |
| 4   | R01 E16 097 | CAP NUT(MEC) M6      | 2             | 2             | 2             | 2             |                                           | M6                                  |
| 5   | T7W S12 242 | SOLENOID COIL(21S4)  | 1             | 1             |               |               | 21S4                                      | Includes SCREW                      |
| 6   | R01 E54 403 | 4-WAY VALVE          | 1             | 1             | 1             | 1             |                                           |                                     |
| 7   | R01 E67 201 | THERMISTOR(SHELL)    | 1             | 1             | 1             | 1             | TH33                                      |                                     |
| 8   | T97 4M0 005 | COMPRESSOR           | 1             | 1             | 1             | 1             | MC                                        | MRB36FEGMC<br>Includes RUBBER MOUNT |
| 9   | T7W E04 410 | STOP VALVE           | 1             | 1             | 1             | 1             | 3/8                                       |                                     |
| 10  | T7W E09 410 | STOP VALVE           | 1             | 1             | 1             | 1             | 5/8                                       | Includes STRAINER                   |
| 11  | R01 E60 440 | POWER RECEIVER       | 1             | 1             | 1             | 1             |                                           |                                     |
| 12  | T7W B23 401 | LEV-B ASSY           | 1             | 1             | 1             | 1             | LEV-B                                     | Includes STOP VALVE                 |
| 13  | R01 E66 201 | THERMISTOR(DIS)      | 1             | 1             | 1             | 1             | TH4                                       |                                     |
| 14  | R01 E28 413 | CHARGE PLUG/ST       | 1             | 1             | 1             | 1             |                                           |                                     |
| 15  | T7W L01 242 | LEV COIL/XAP5-RED    | 1             | 1             | 1             | 1             | LEV-B                                     |                                     |
| 16  | R01 L20 242 | LEV COIL/XAP5-WH     | 1             | 1             | 1             | 1             | LEV-A                                     |                                     |
| 17  | R01 H32 202 | THERMISTOR           | 1             | 1             | 1             | 1             | TH32                                      |                                     |
| 18  | R01 A30 401 | LEV-A ASSY           | 1             | 1             | 1             | 1             | LEV-A                                     |                                     |
| 19  | R01 E67 202 | THERMISTOR           | 1             | 1             | 1             | 1             | TH3                                       |                                     |
| 20  | R01 E28 413 | CHARGE PLUG/ST       | 1             | 1             | 1             | 1             |                                           |                                     |
| 21  | T7W E15 208 | HIGH PRESSURE SWITCH | 1             | 1             | 1             | 1             | 63H                                       | OFF 4.14MPa                         |
| 22  | R01 E94 202 | THERMISTOR W         | 1             | 1             | 1             | 1             | TH6 (Outdoor 2-Phase Pipe), TH7 (Ambient) |                                     |
| 23  | R01 R13 408 | HEAT EXCHANGER       | 1             | 1             | 1             | 1             |                                           |                                     |
| 24  | R01 T19 602 | COMP FELT-TOP/MRB    | 1             | 1             | 1             | 1             |                                           |                                     |
| 25  | R01 B15 602 | COMP FELT-BODY/MRK   | 1             | 1             | 1             | 1             |                                           |                                     |
| 26  | T7W C22 510 | LEAD ASSY COMP       | 1             | 1             | 1             | 1             |                                           |                                     |
| 27  | T7W E38 201 | TRS ASSY             | 1             | 1             | 1             | 1             | TRS                                       |                                     |
| 28  | T7W A01 455 | REF.MARKER(SNAP)1P   | 1             | 1             | 1             | 1             |                                           |                                     |

## FUNCTIONAL PARTS

PUZ-AK48NL-U1    PUZ-AK60NL-U1

PUY-AK48NL-U1    PUY-AK60NL-U1

SUZ-AK48NL-U1    SUZ-AK60NL-U1



1. The part quantity below indicates the required number of pieces per unit.
2. The circled No. indicates that the part is not shown in the figure.

| No. | Part No.    | Part Name            | PUZ-AK48NL-U1 | PUZ-AK60NL-U1 | PUY-AK48NL-U1 | PUY-AK60NL-U1 | SUZ-AK48NL-U1 | SUZ-AK60NL-U1 | Wiring Diagram Symbol                     | Remarks                               |
|-----|-------------|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------------------------------|---------------------------------------|
| 1   | T7W A22 221 | FAN MOTOR            | 1             | 1             | 1             | 1             | 1             | 1             | MF1                                       |                                       |
| 2   | T7W A23 221 | FAN MOTOR            | 1             | 1             | 1             | 1             | 1             | 1             | MF2                                       |                                       |
| 3   | R01 E16 115 | PROPELLER FAN/D550   | 2             | 2             | 2             | 2             | 2             | 2             |                                           |                                       |
| 4   | R01 E16 097 | CAP NUT(MEC) M6      | 2             | 2             | 2             | 2             | 2             | 2             |                                           | M6                                    |
| 5   | T7W S13 242 | SOLENOID COIL(21S4)  | 1             | 1             |               |               | 1             | 1             | 21S4                                      | Includes SCREW                        |
| 6   | R01 E44 403 | 4-WAY VALVE          | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 7   | R01 E67 201 | THERMISTOR(SHELL)    | 1             | 1             | 1             | 1             | 1             | 1             | TH33                                      |                                       |
| 8   | T97 4M0 008 | COMPRESSOR           | 1             | 1             | 1             | 1             | 1             | 1             | MC                                        | MRB53FEJMC-L<br>Includes RUBBER MOUNT |
| 9   | T7W E04 410 | STOP VALVE           | 1             | 1             | 1             | 1             | 1             | 1             | 3/8                                       |                                       |
| 10  | T7W E09 410 | STOP VALVE           | 1             |               | 1             |               | 1             |               | 5/8                                       | Includes STRAINER                     |
| 10  | T7W G02 411 | STOP VALVE           |               | 1             |               | 1             |               | 1             | 3/4                                       | Includes STRAINER                     |
| 11  | R01 E88 440 | POWER RECEIVER       | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 12  | T7W B22 401 | LEV-B ASSY           | 1             | 1             | 1             | 1             | 1             | 1             | LEV-B                                     | Includes STOP VALVE                   |
| 13  | R01 E66 201 | THERMISTOR(DIS)      | 1             | 1             | 1             | 1             | 1             | 1             | TH4                                       |                                       |
| 14  | R01 E32 413 | CHARGE PLUG/LB90     | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 15  | R01 L21 242 | LEV COIL/XAP5-RED    | 1             | 1             | 1             | 1             | 1             | 1             | LEV-B                                     |                                       |
| 16  | R01 H39 242 | LEV COIL/XAP5-WH     | 1             | 1             | 1             | 1             | 1             | 1             | LEV-A                                     |                                       |
| 17  | R01 H32 202 | THERMISTOR           | 1             | 1             | 1             | 1             | 1             | 1             | TH32                                      |                                       |
| 18  | R01 A31 401 | LEV-A ASSY           | 1             | 1             | 1             | 1             | 1             | 1             | LEV-A                                     |                                       |
| 19  | R01 E67 202 | THERMISTOR           | 1             | 1             | 1             | 1             | 1             | 1             | TH3                                       |                                       |
| 20  | R01 E32 413 | CHARGE PLUG/LB90     | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 21  | T7W E15 208 | HIGH PRESSURE SWITCH | 1             | 1             | 1             | 1             | 1             | 1             | 63H                                       | OFF 4.14 MPa                          |
| 22  | R01 E94 202 | THERMISTOR W         | 1             | 1             | 1             | 1             | 1             | 1             | TH6 (Outdoor 2-Phase Pipe), TH7 (Ambient) |                                       |
| 23  | T7W F14 408 | HEAT EXCHANGER       | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 24  | R01 T19 602 | COMP FELT-TOP/MRB    | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 25  | R01 B15 602 | COMP FELT-BODY/MRK   | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 26  | T7W C23 510 | LEAD ASSY COMP       | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |
| 27  | T7W E38 201 | TRS ASSY             | 1             | 1             | 1             | 1             | 1             | 1             | TRS                                       |                                       |
| 28  | T7W A01 455 | REF.MARKER(SNAP)1P   | 1             | 1             | 1             | 1             | 1             | 1             |                                           |                                       |

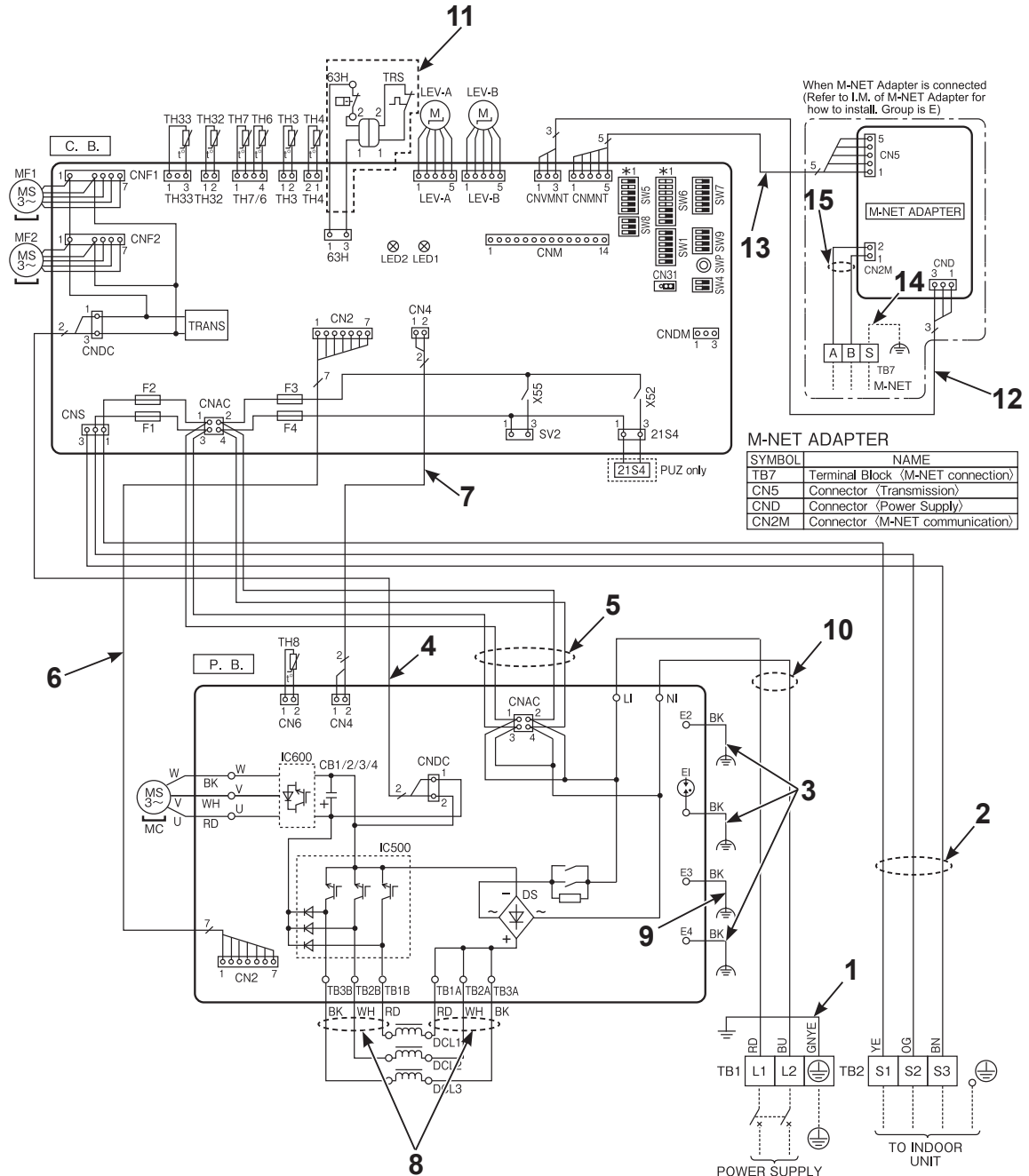
# LEAD WIRE ASSEMBLY

PUZ-AK36NL-U1

PUZ-AK42NL-U1

PUY-AK36NL-U1

PUY-AK42NL-U1





1. The part quantity below indicates the required number of pieces per unit.
2. The circled No. indicates that the part is not shown in the figure.

| No. | Part No.    | Part Name          | PUZ-AK36NL-U1 | PUZ-AK42NL-U1 | PUY-AK36NL-U1 | PUY-AK42NL-U1 | Wiring Diagram Symbol | Remarks |
|-----|-------------|--------------------|---------------|---------------|---------------|---------------|-----------------------|---------|
| 1   | T7W A17 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 2   | T7W A18 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 3   | T7W A19 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 4   | T7W A20 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 5   | T7W A21 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 6   | T7W A22 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 7   | T7W A23 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 8   | T7W A24 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 9   | T7W A25 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 10  | T7W A26 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 11  | T7W A27 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 12  | T7W A13 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 13  | T7W A14 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 14  | T7W A15 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |
| 15  | T7W A16 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             |                       |         |

## LEAD WIRE ASSEMBLY

PUZ-AK48NL-U1

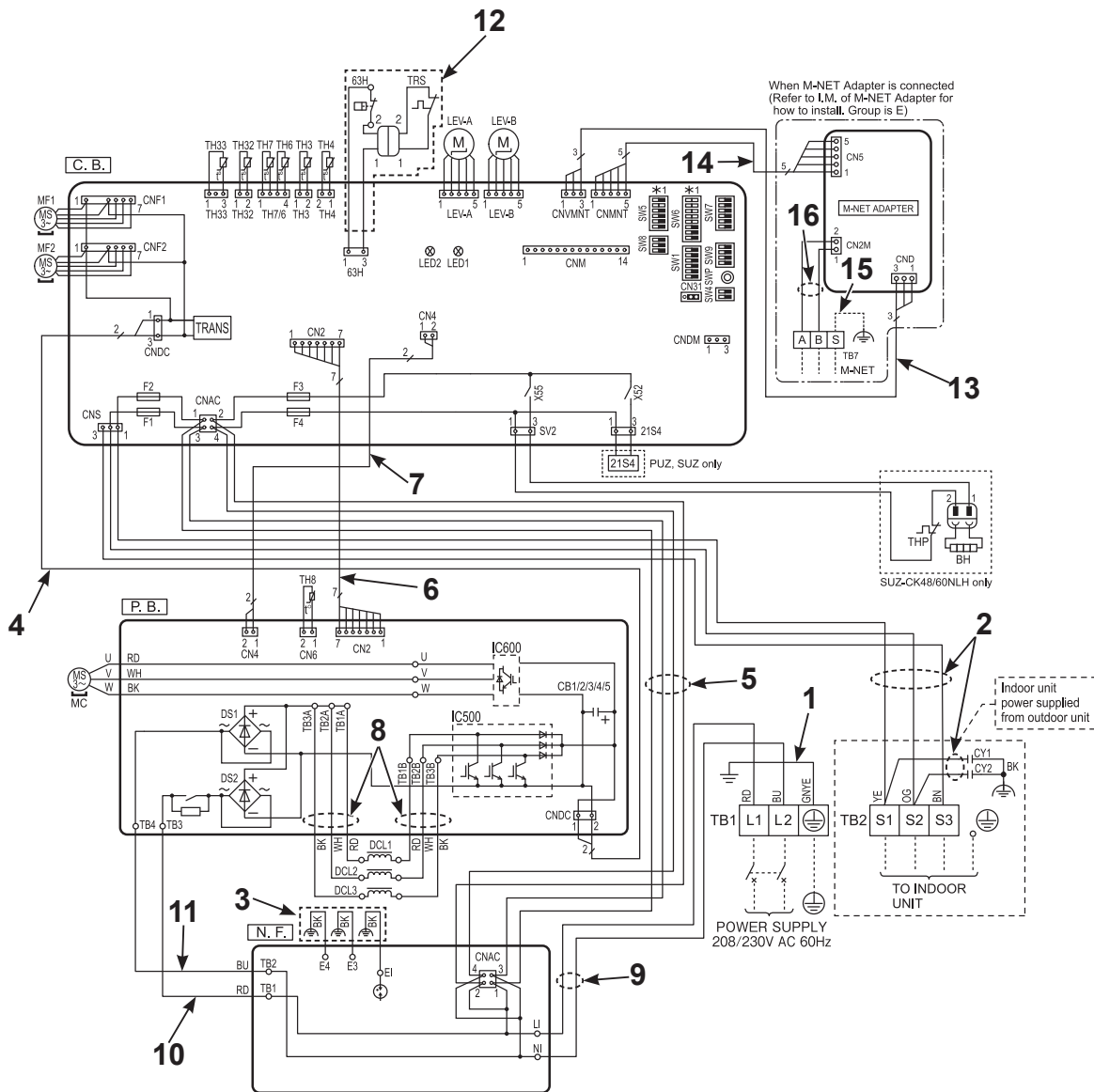
PUZ-AK60NL-U1

SUZ-AK48NL-U1

SUZ-AK60NL-U1

PUY-AK48NL-U1

PUY-AK60NL-U1



1. The part quantity below indicates the required number of pieces per unit.
2. The circled No. indicates that the part is not shown in the figure.

| No. | Part No.    | Part Name          | PUZ-AK48NL-U1 | PUZ-AK60NL-U1 | PUY-AK48NL-U1 | PUY-AK60NL-U1 | SUZ-AK48NL-U1 | SUZ-AK60NL-U1 | Wiring Diagram Symbol | Remarks |
|-----|-------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------|---------|
| 1   | T7W A28 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 2   | T7W A29 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 3   | T7W A30 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 4   | T7W A31 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 5   | T7W A32 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 6   | T7W A33 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 7   | T7W A34 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 8   | T7W A35 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 9   | T7W A36 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 10  | T7W A37 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 11  | T7W A38 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 12  | T7W A27 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 13  | T7W A13 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 14  | T7W A14 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 15  | T7W A15 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |
| 16  | T7W A16 304 | LEAD WIRE ASSEMBLY | 1             | 1             | 1             | 1             | 1             | 1             |                       |         |

# **mitsubishi electric corporation**

HEAD OFFICE : TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

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Issued: Jun. 2026 No. OCB869C  
Issued: Dec. 2025 No. OCB869B  
Issued: Apr. 2025 No. OCB869A  
Published: Sep. 2024 No. OCB869  
Made in Japan

Specifications are subject to change without notice.