

# FUJI ELECTRIC

SPLIT TYPE AIR  
CONDITIONER (50Hz)

## DUCT type

# SERVICE MANUAL

| Models | Indoor unit | Outdoor unit |
|--------|-------------|--------------|
|        | RD-30       | ROW-30B      |
|        | RD-30R      | ROW-30RB     |

## CONTENTS

|                                     |    |
|-------------------------------------|----|
| SPECIFICATIONS .....                | 1  |
| CIRCUIT DIAGRAM .....               | 2  |
| PRINTED CIRCUIT BOARD LAYOUTS ..... | 9  |
| REFRIGERANT SYSTEM DIAGRAM .....    | 10 |
| DISASSEMBLY ILLUSTRATION .....      | 11 |
| PARTS LIST .....                    | 23 |

# SPECIFICATIONS

|                  |      |             |             |
|------------------|------|-------------|-------------|
| INDOOR UNIT      |      | RD-30       | RD-30R      |
| OUTDOOR UNIT     |      | ROW-30B     | ROW-30RB    |
| COOLING CAPACITY | (kW) | 8.60 – 8.80 | 8.60 – 8.80 |
| HEATING CAPACITY | (kW) | —           | 8.80 – 9.10 |

## ELECTRICAL SPECIFICATIONS

|                    |         |             |             |
|--------------------|---------|-------------|-------------|
| POWER SUPPLY       | (V)     | 220 - 240   |             |
| FREQUENCY          | (Hz)    | 50          |             |
| RUNNING CURRENT    | COOLING | 15.8 – 16.3 | 16.0 – 16.5 |
|                    | HEATING | —           | 14.1 – 14.6 |
| INPUT              | COOLING | 3.30 – 3.40 | 3.35 – 3.45 |
|                    | HEATING | —           | 2.90 – 3.00 |
| EER                | COOLING | 2.61 – 2.59 | 2.57 – 2.55 |
|                    | HEATING | —           | 3.03 – 3.03 |
| MOISTURE REMOVAL   | (ℓ /hr) | 4.0         | 4.0         |
| AIR CIRCULATION-HI | (m³/hr) | 1,650       | 1,650       |

## COMPRESSOR

|      |                                                                                    |  |  |
|------|------------------------------------------------------------------------------------|--|--|
| TYPE | Hermetic type, Permanent split condenser,<br>2 pole, Single phase, Induction motor |  |  |
| CODE | H23A42QABKA                                                                        |  |  |

| FAN MOTOR    | RD-30    | RD-30R    | ROW-30B  | ROW-30RB |
|--------------|----------|-----------|----------|----------|
| TYPE         | MFA-45BT |           | MFB-30DF |          |
| POWER SUPPLY | (V)      | 220 - 240 |          |          |
| HI-SPEED     | (r.p.m.) | 1,240     | 760      |          |
| MED-SPEED    | (r.p.m.) | 1,140     | —        |          |
| LO-SPEED     | (r.p.m.) | 1,040     | 470      |          |

## DIMENSIONS

|        |      |       |     |
|--------|------|-------|-----|
| HEIGHT | (mm) | 270   | 900 |
| WIDTH  | (mm) | 1,210 | 900 |
| DEPTH  | (mm) | 700   | 350 |

## WEIGHT

|              |      |    |    |    |
|--------------|------|----|----|----|
| GROSS WEIGHT | (kg) | 58 | 96 | 97 |
| NET WEIGHT   | (kg) | 43 | 84 | 85 |

## REFRIGERANT CHARGING

| PIPE LENGTH        |        | 5 m (16ft)             | 10 m (33ft)            | 15 m (49ft)            | 20 m (66ft)            | 25 m (82ft)            | 30 m (99ft)            |
|--------------------|--------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| FULL CHARGE AMOUNT | RD-30  | 2,650 g<br>(93.5 oz.)  | 2,735 g<br>(96.5 oz.)  | 2,820 g<br>(99.5 oz.)  | 2,905 g<br>(102.5 oz.) | 2,990 g<br>(105.5 oz.) | 3,075 g<br>(108.5 oz.) |
|                    | RD-30R | 2,850 g<br>(100.5 oz.) | 3,100 g<br>(109.3 oz.) | 3,350 g<br>(118.2 oz.) | 3,600 g<br>(127.0 oz.) | 3,850 g<br>(135.8 oz.) |                        |

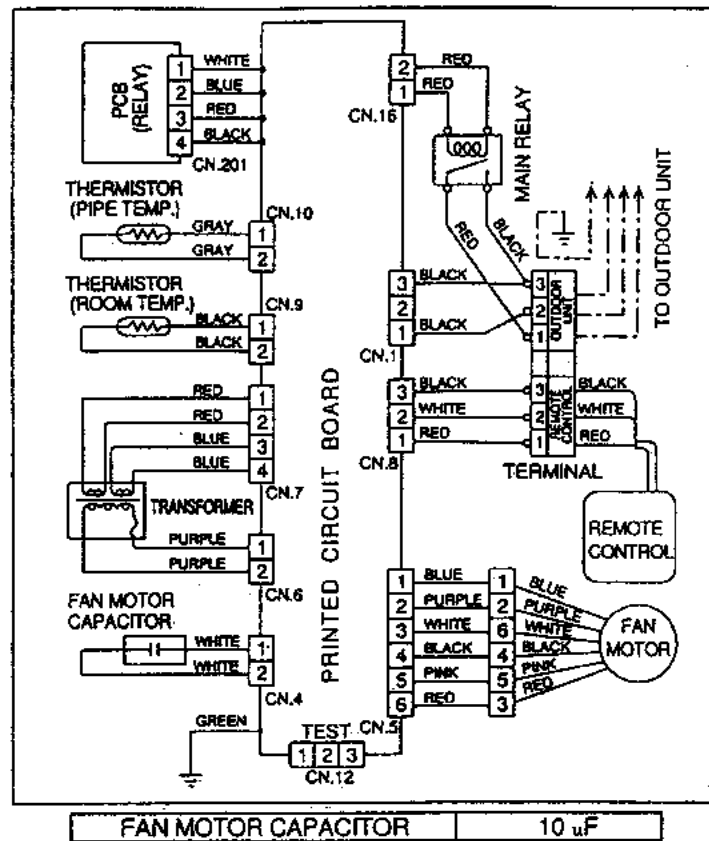
Note: • Between 5 m and 30 m, when using a connection pipe other than that in the table, charge additional refrigerant with 17 g (0.60 oz.) / 1 m (3.3 ft) for RD-30, 50 g (1.76 oz.) / 1 m (3.3 ft) for RD-30R as the criteria.

• The above list shows values at the external static pressure of 12 mm Aq. (118 Pa).

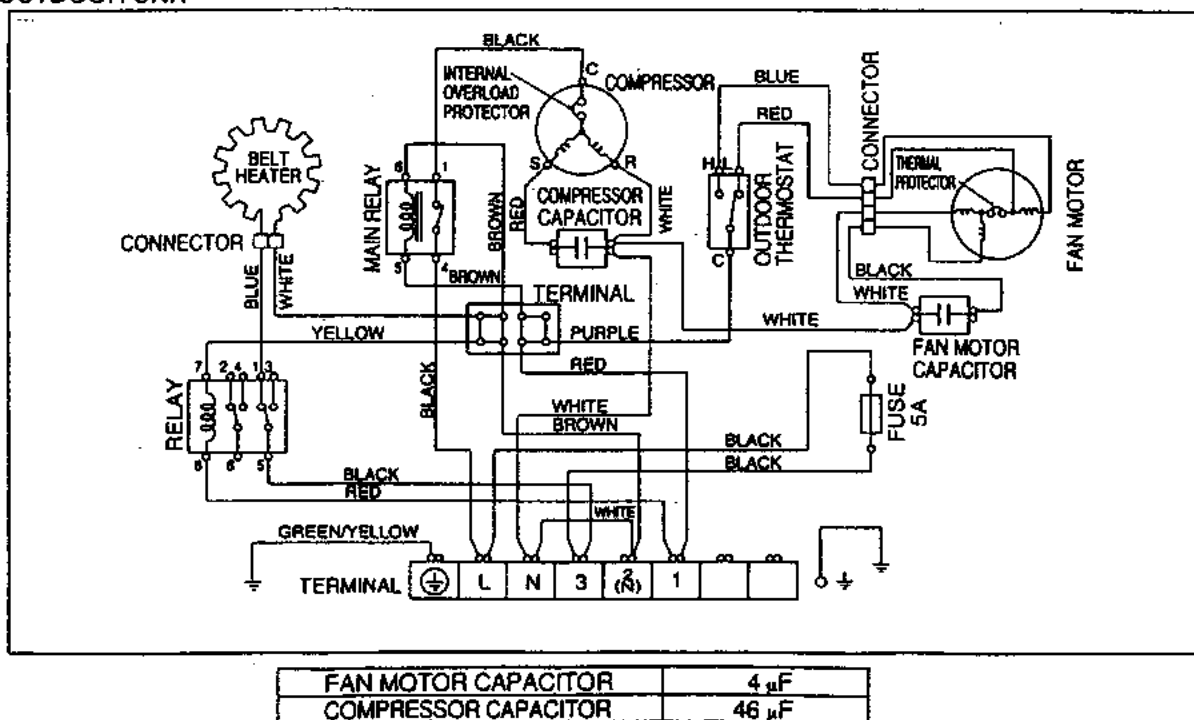
## CIRCUIT DIAGRAM

**Models: RD-30/ROW-30B**

## INDOOR UNIT

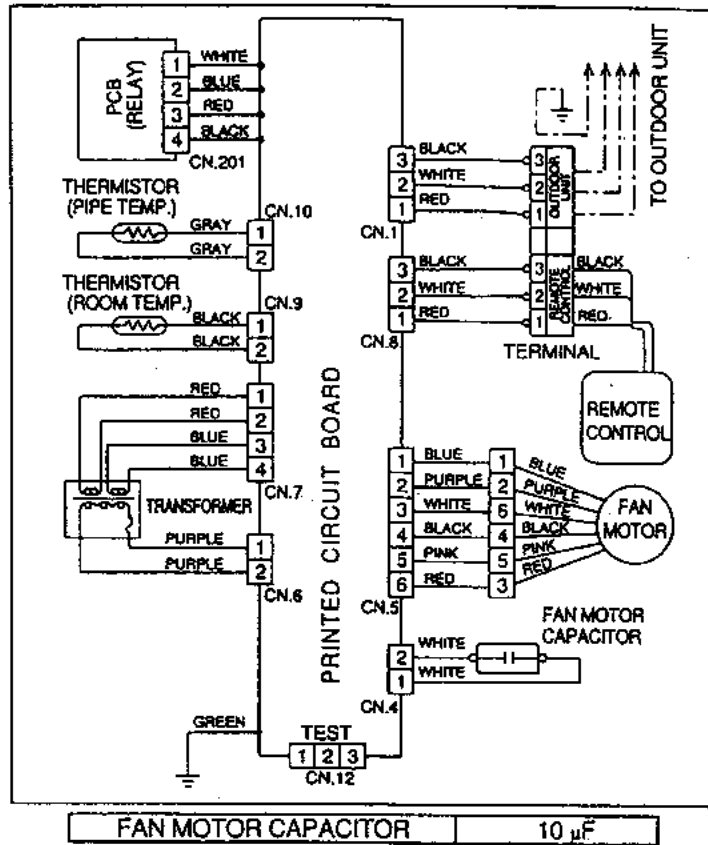


## OUTDOOR UNIT

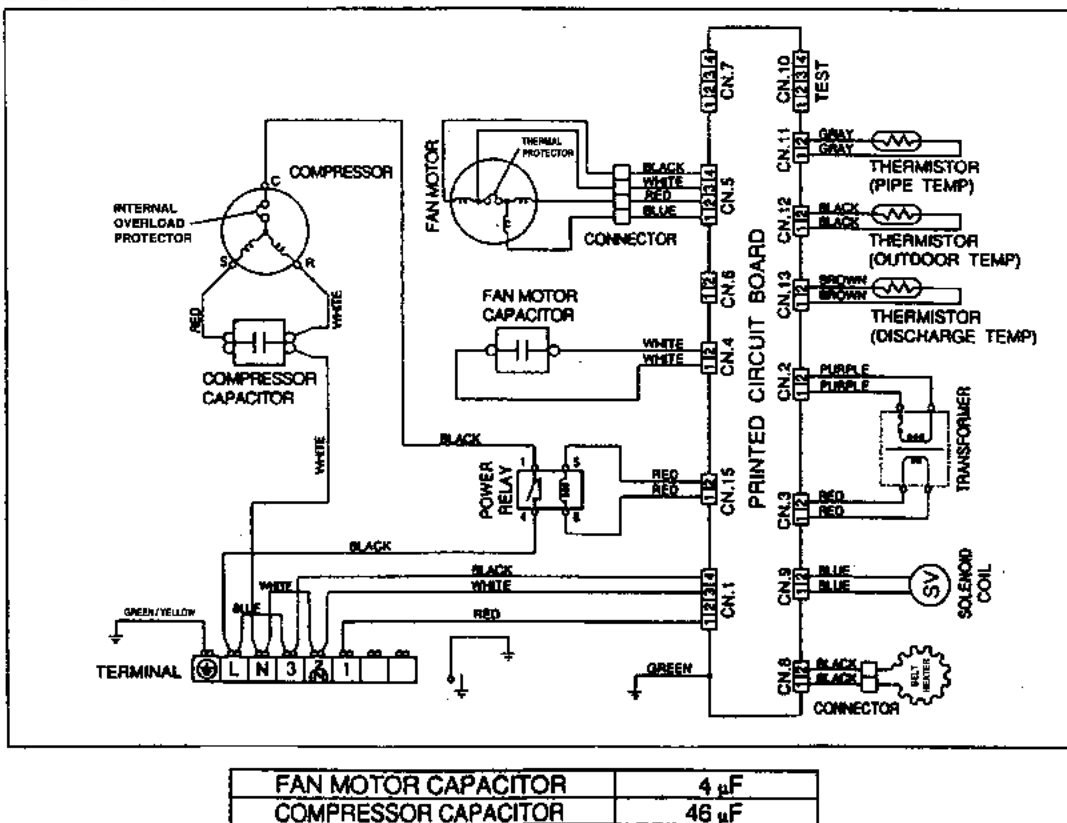


Models: RD-30R/ROW-30RB

# INDOOR UNIT

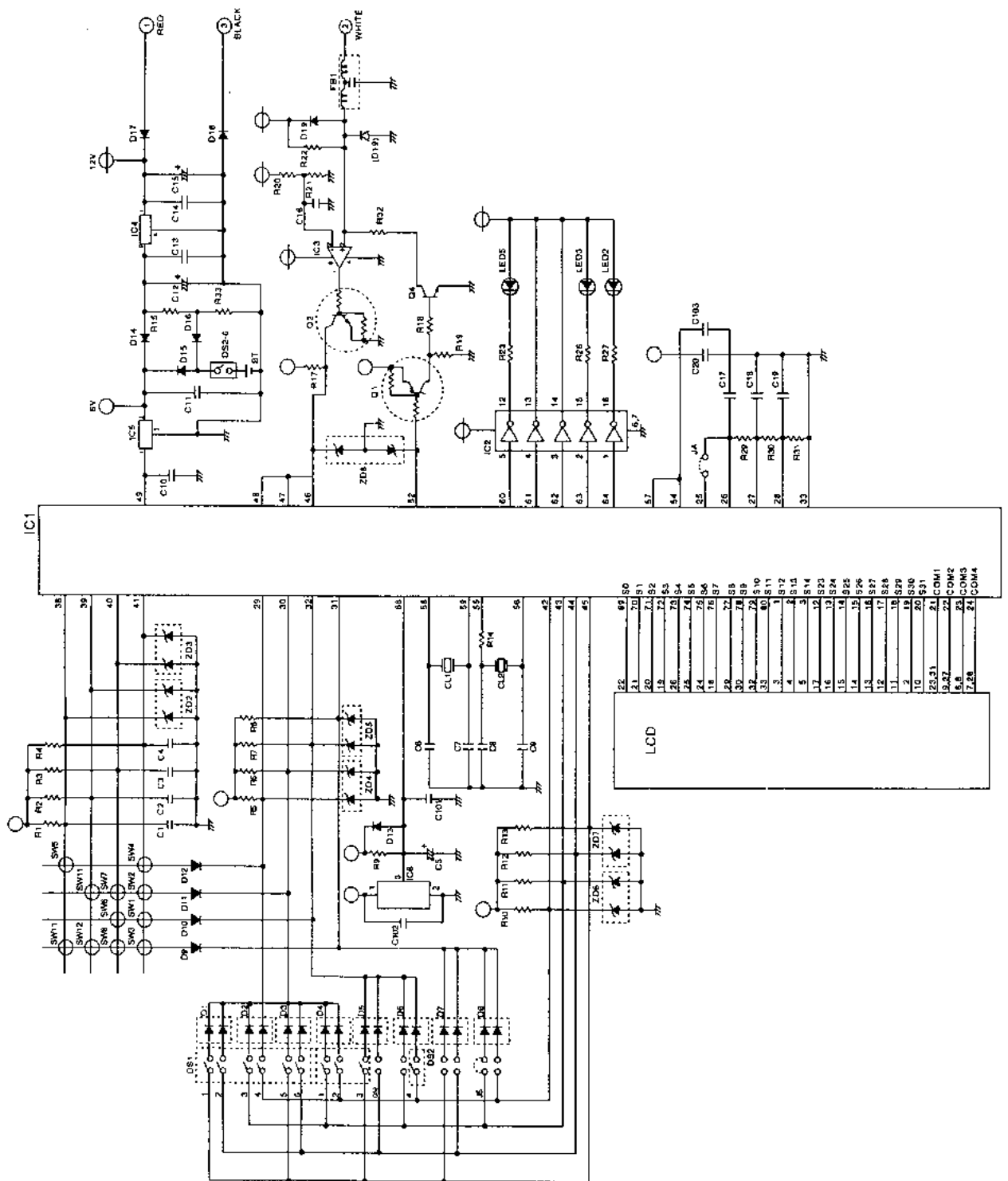


# OUTDOOR UNIT

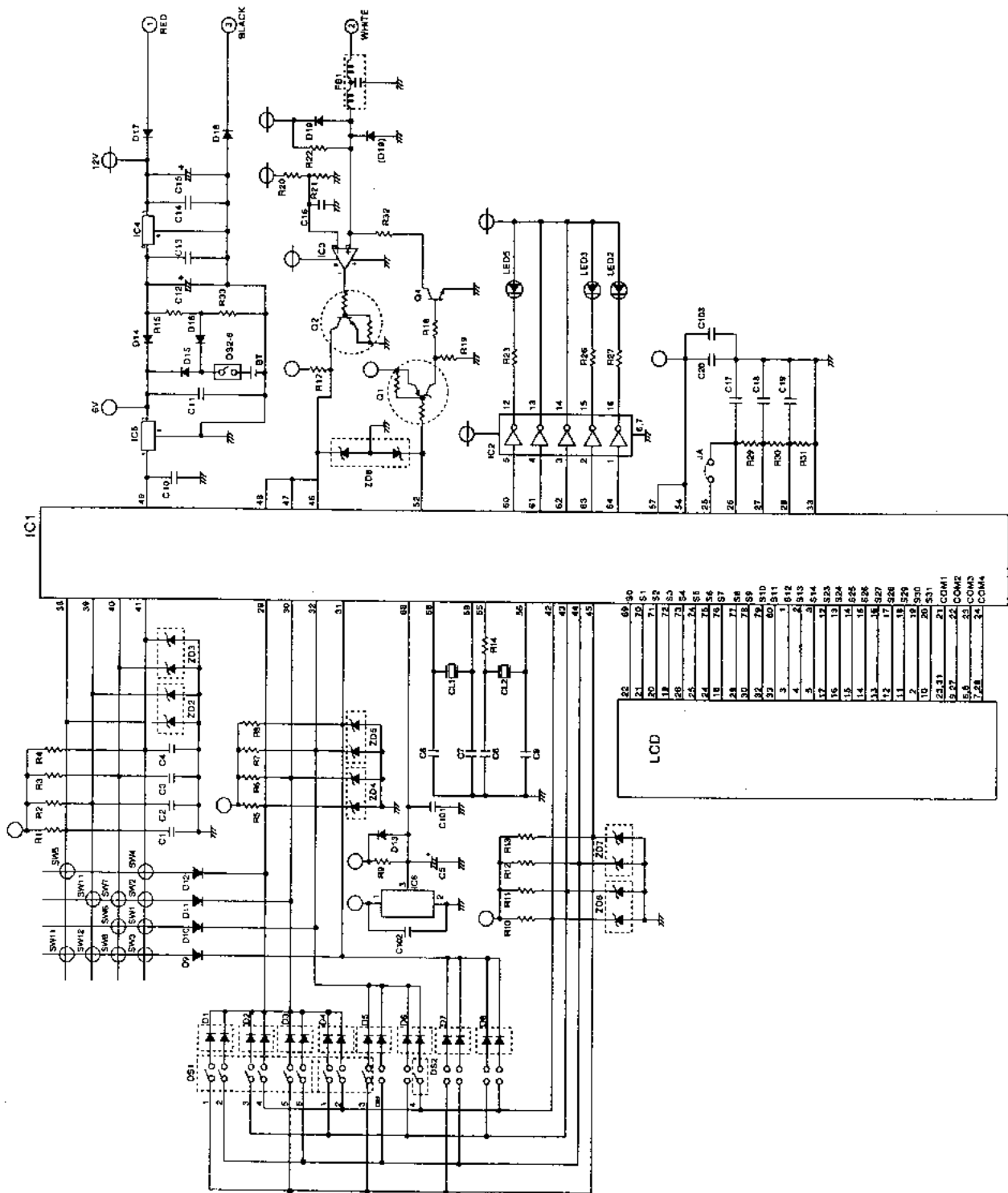


# REMOTE CONTROLLER CIRCUIT DIAGRAM

Model: RD-30

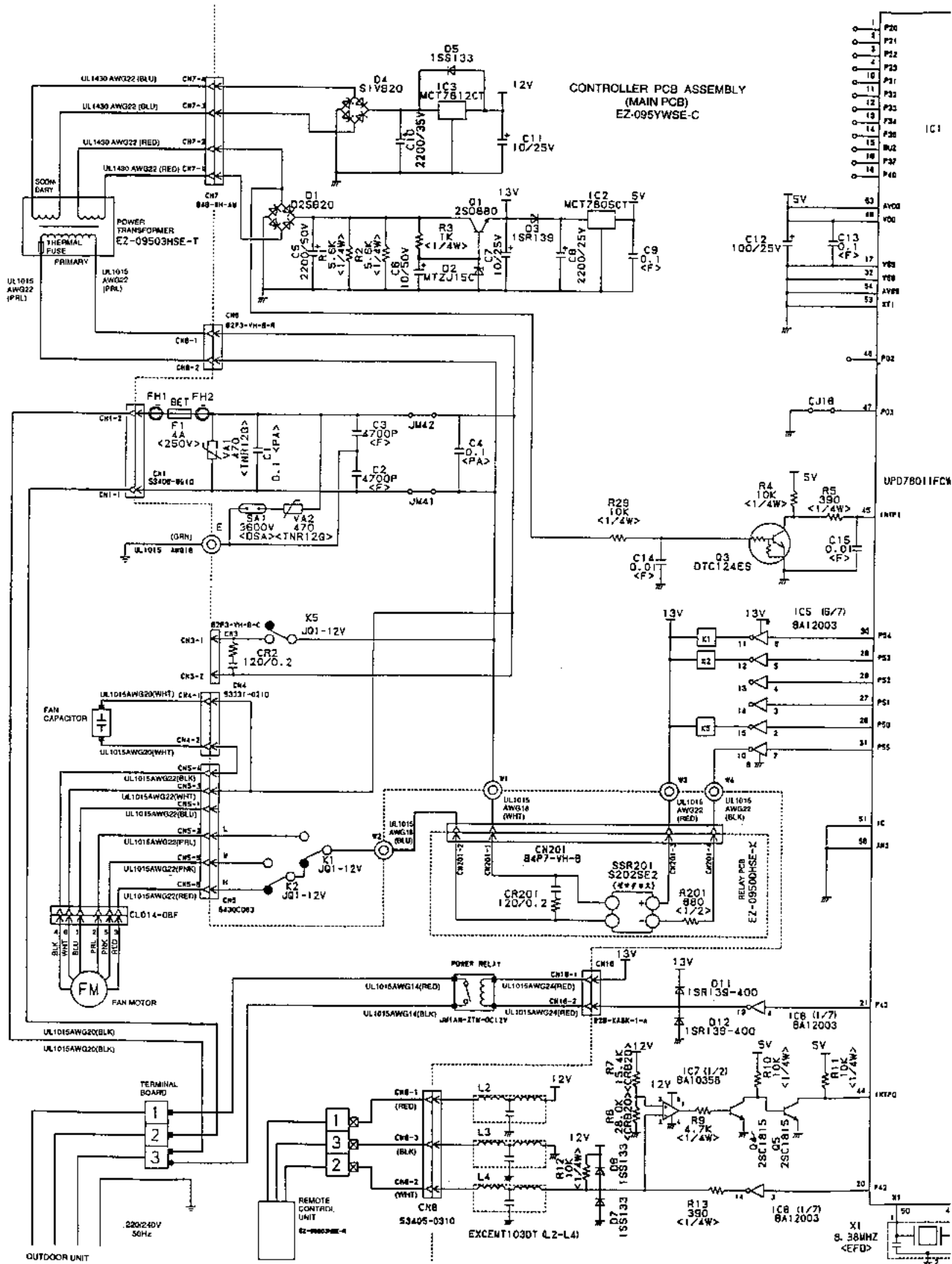


**Model: RD-30R**

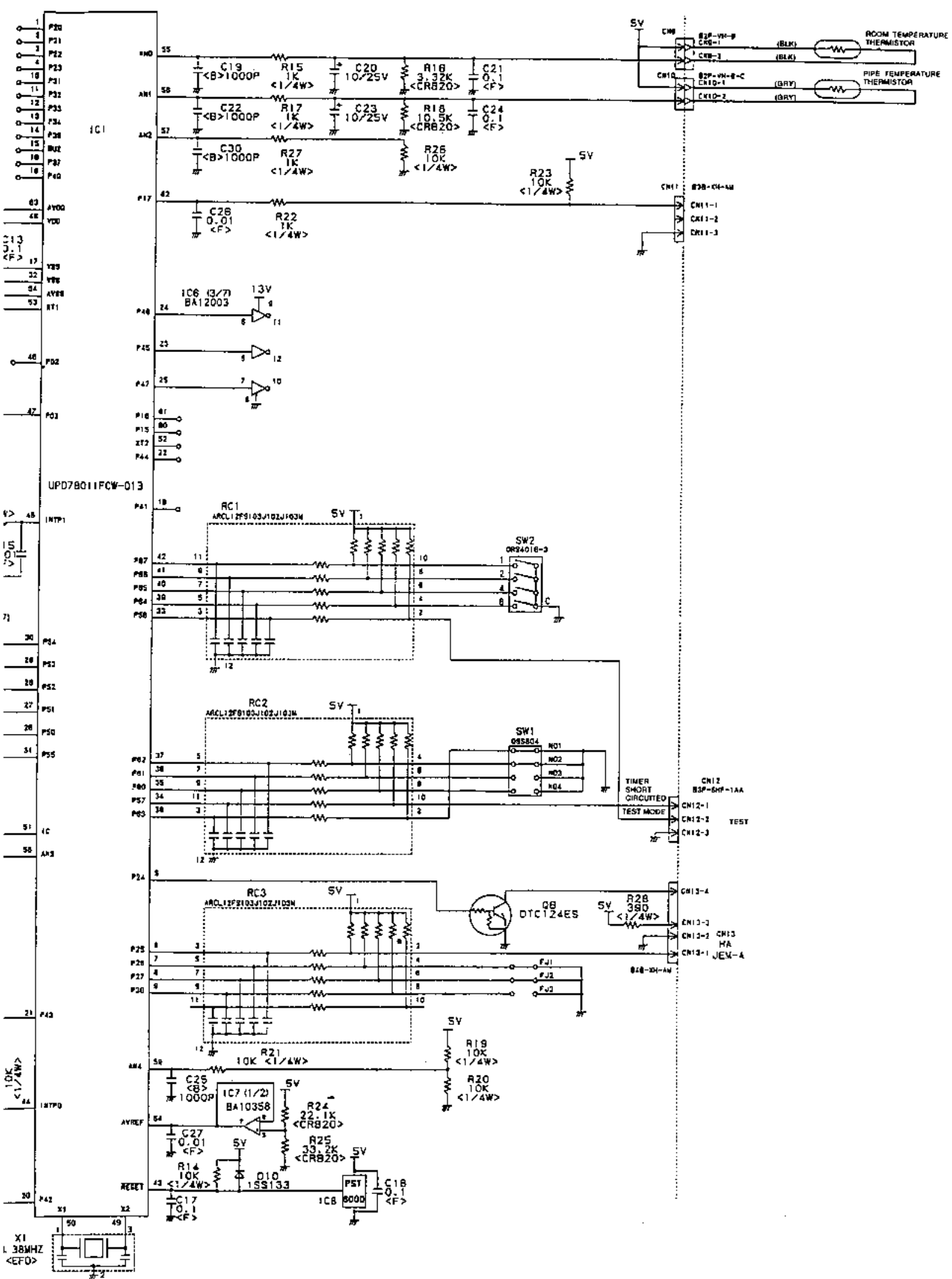


# INDOOR PRINTED CIRCUIT CIRCUIT DIAG

Model: RD-30



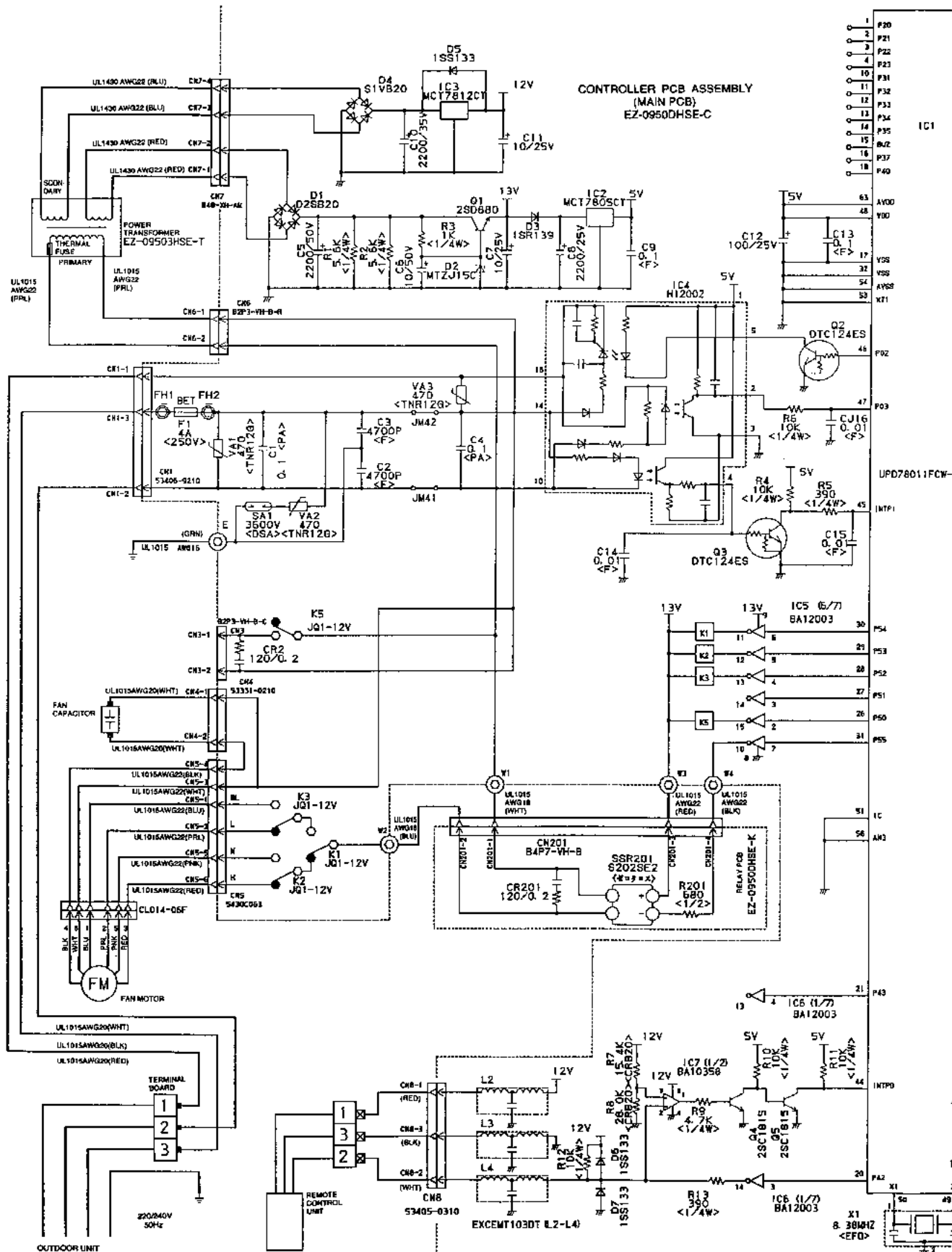
**ITED CIRCUIT BOARD**  
**UIT DIAGRAM**

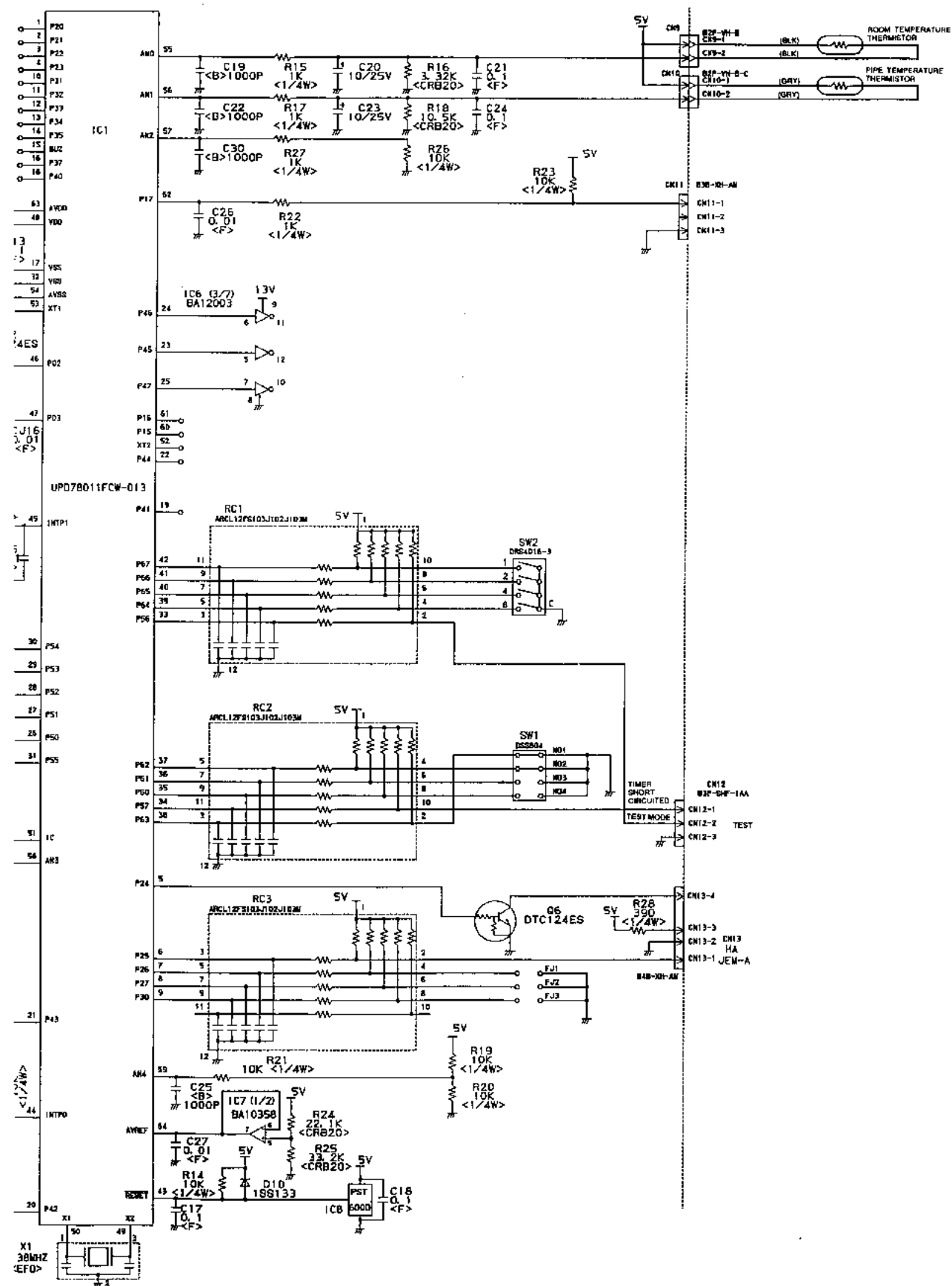


**Model: RD-30**

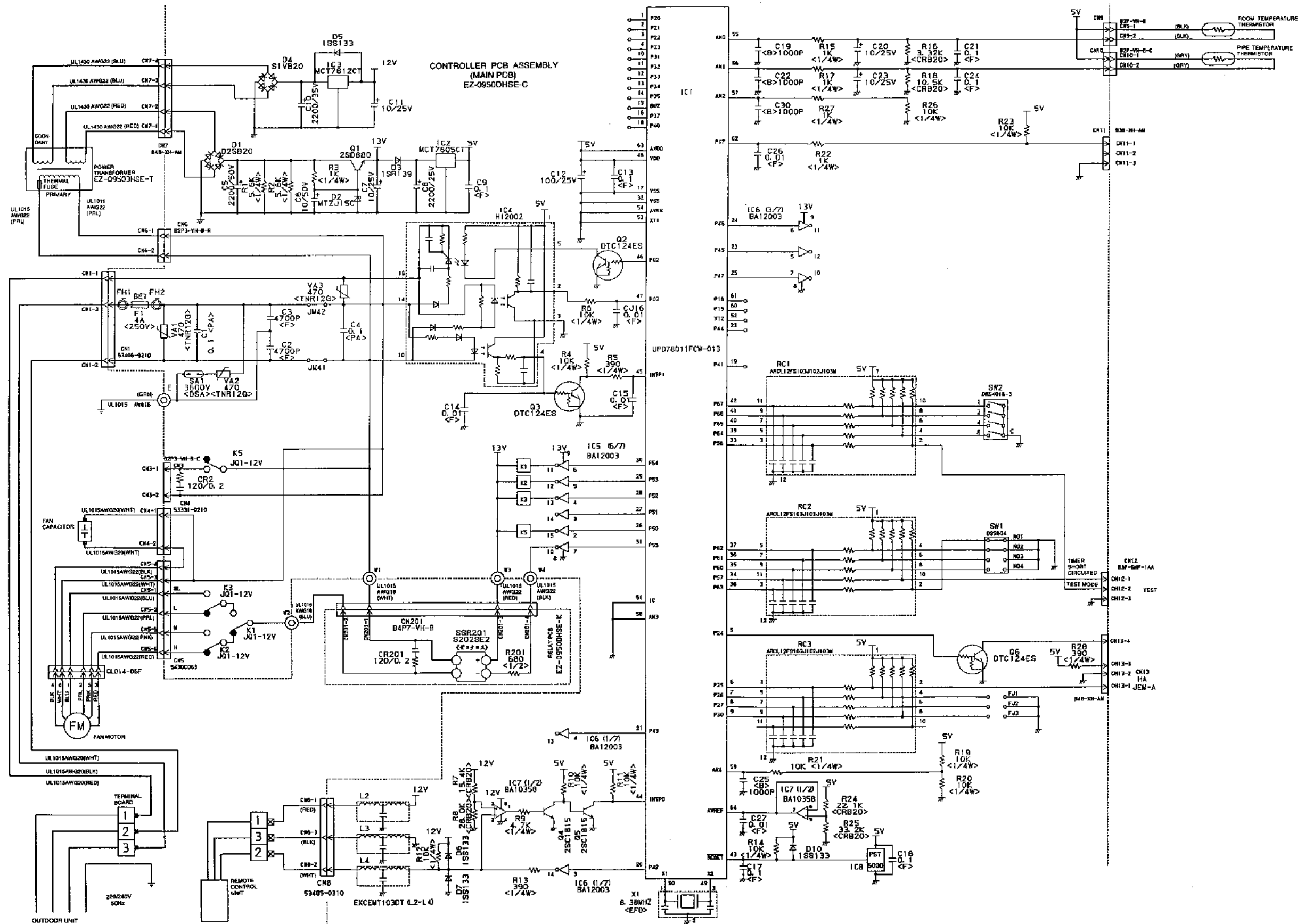


# Model: RD-30R



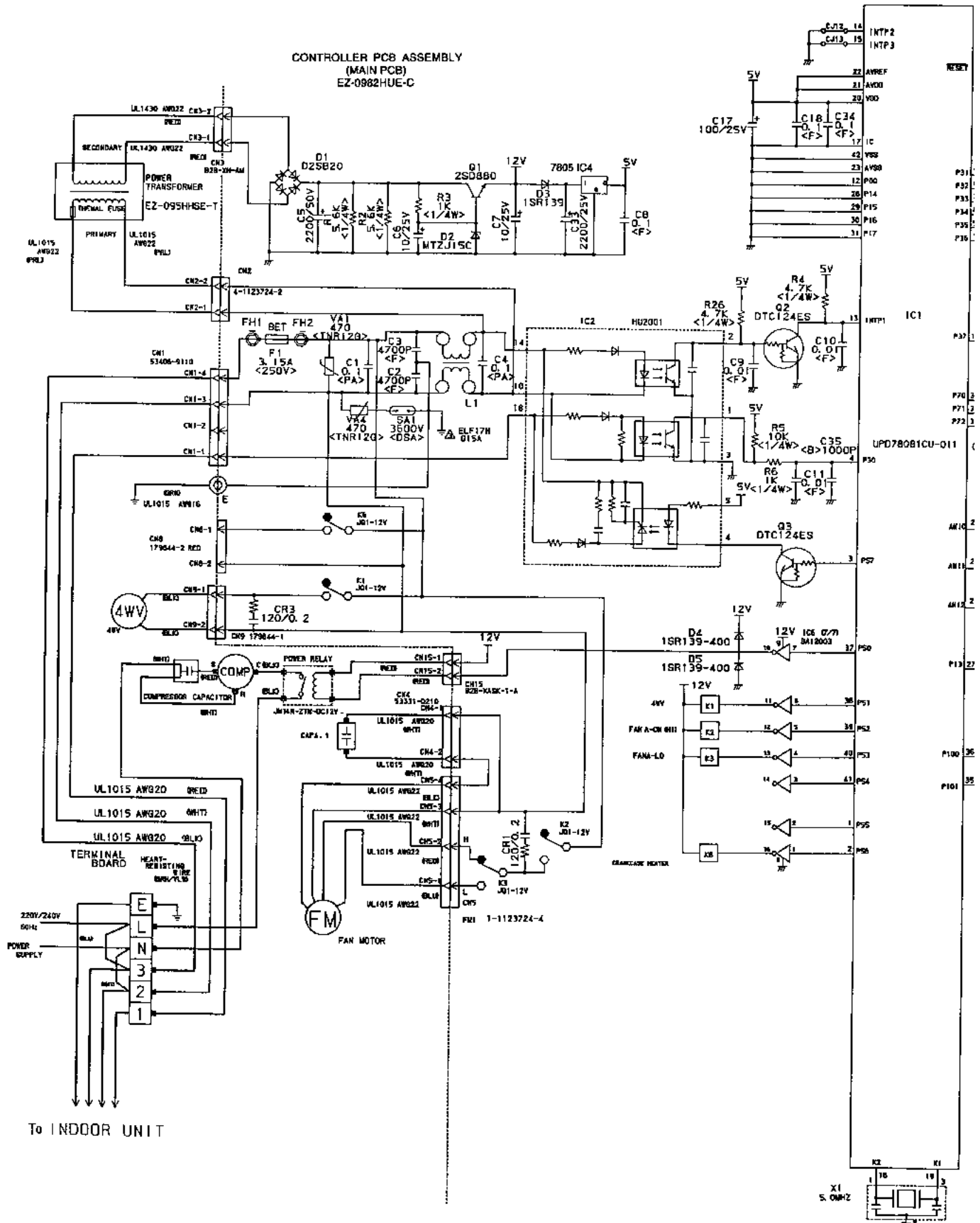


Model: RD-30R

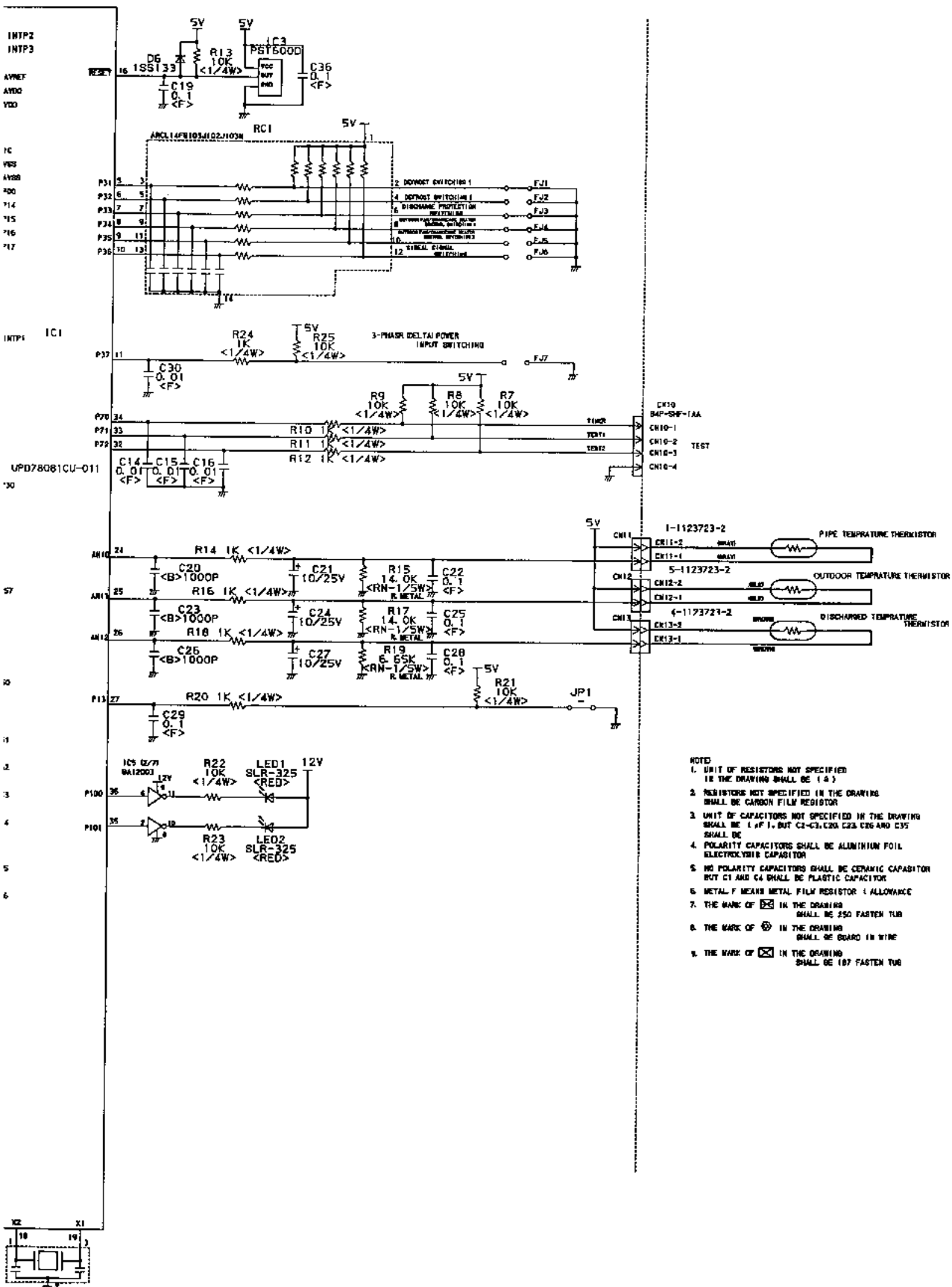


## OUTDOOR PRINTED CIRCUIT BOARD

**Model: ROW-30RB**



NTED CIRCUIT BOARD  
JIT DIAGRAM



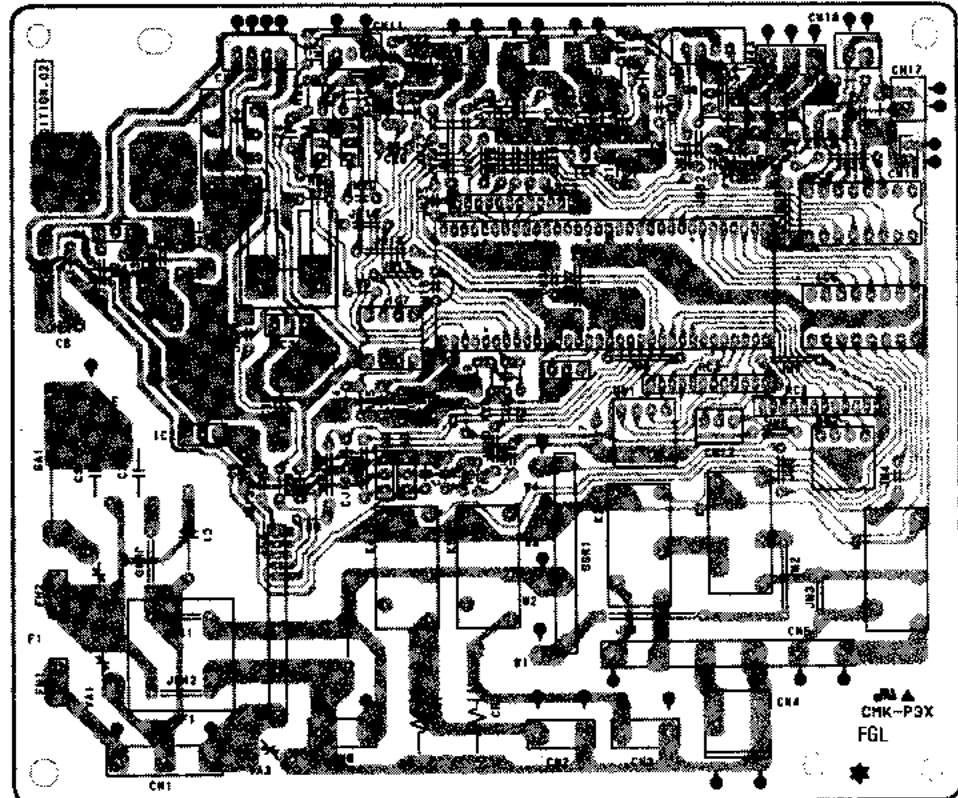
- NOTES
1. UNIT OF RESISTORS NOT SPECIFIED IN THE DRAWING SHALL BE (Ω)
  2. RESISTORS NOT SPECIFIED IN THE DRAWING SHALL BE CARBON FILM RESISTOR
  3. UNIT OF CAPACITORS NOT SPECIFIED IN THE DRAWING SHALL BE (μF), BUT C1-C3, C20, C23, C26 AND C35 SHALL BE
  4. POLARITY CAPACITORS SHALL BE ALUMINUM FOIL ELECTROLYTIC CAPACITOR
  5. NO POLARITY CAPACITORS SHALL BE CERAMIC CAPACITOR BUT C1 AND C4 SHALL BE PLASTIC CAPACITOR
  6. METAL F MEANS METAL FILM RESISTOR (ALLOWANCE)
  7. THE MARK OF  IN THE DRAWING SHALL BE 250 FASTEN TUB
  8. THE MARK OF  IN THE DRAWING SHALL BE BOARD IN WIRE
  9. THE MARK OF  IN THE DRAWING SHALL BE 107 FASTEN TUB

**Model: ROW-30RB**

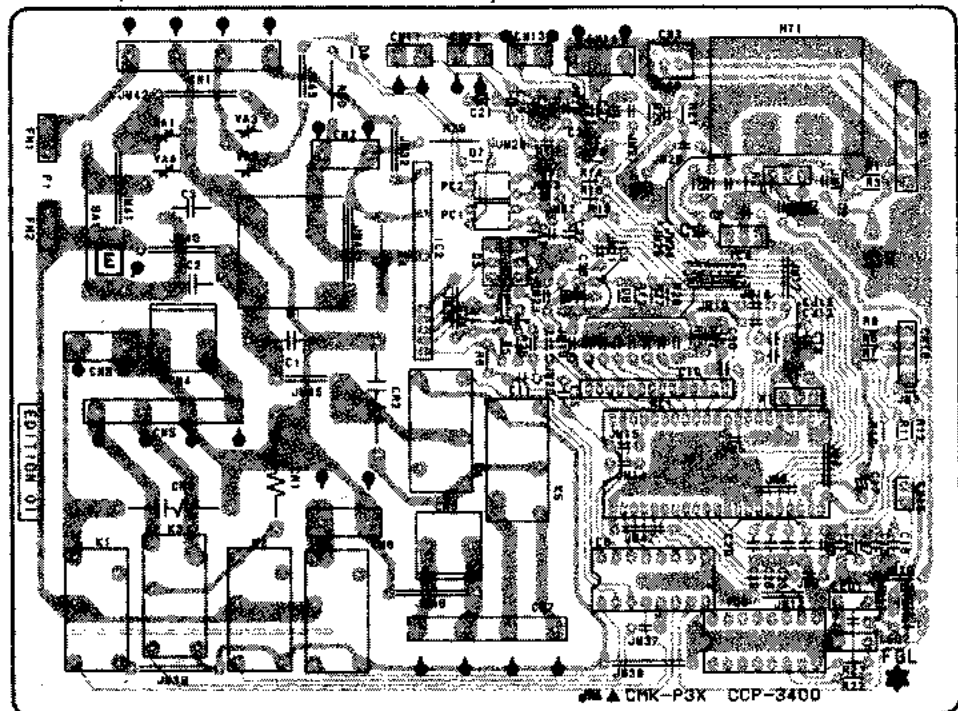


# PRINTED CIRCUIT BOARD LAYOUTS

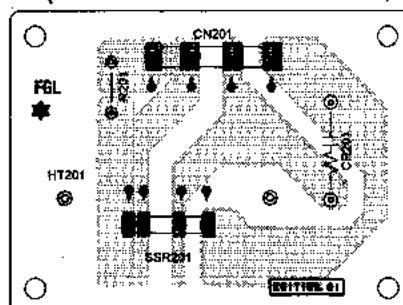
INDOOR UNIT (Viewed from the solder side)



OUTDOOR UNIT (Viewed from the solder side)

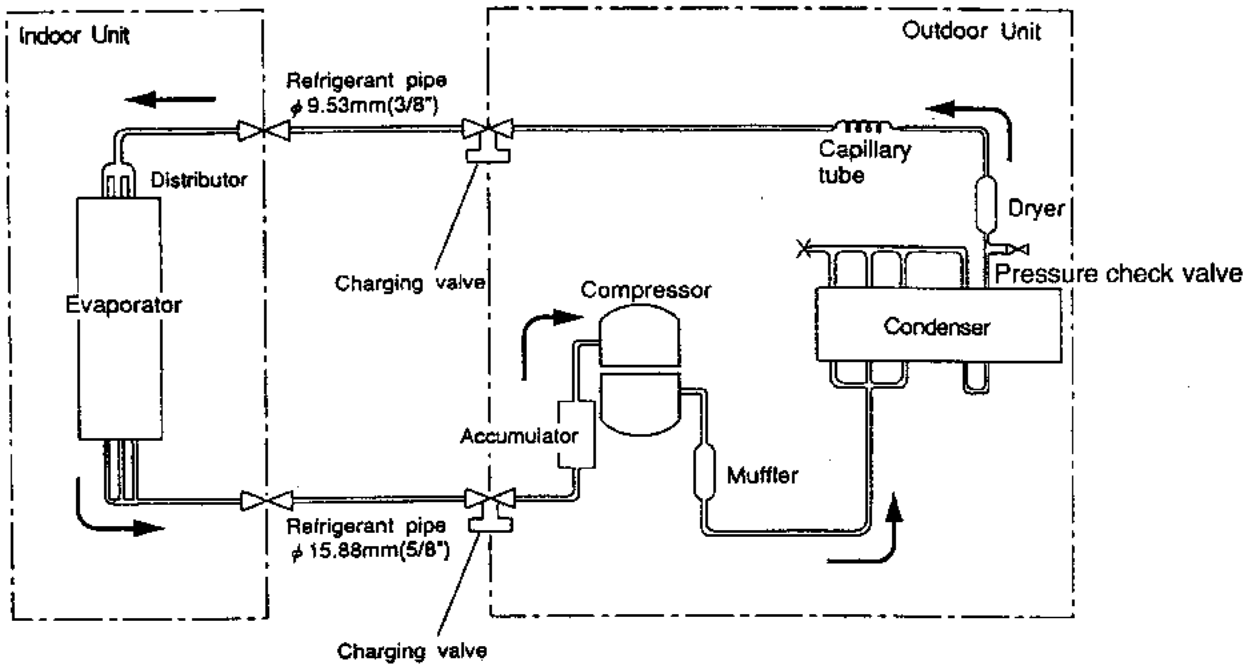


RELAY PCB ASSEMBLY (View from the solder side)

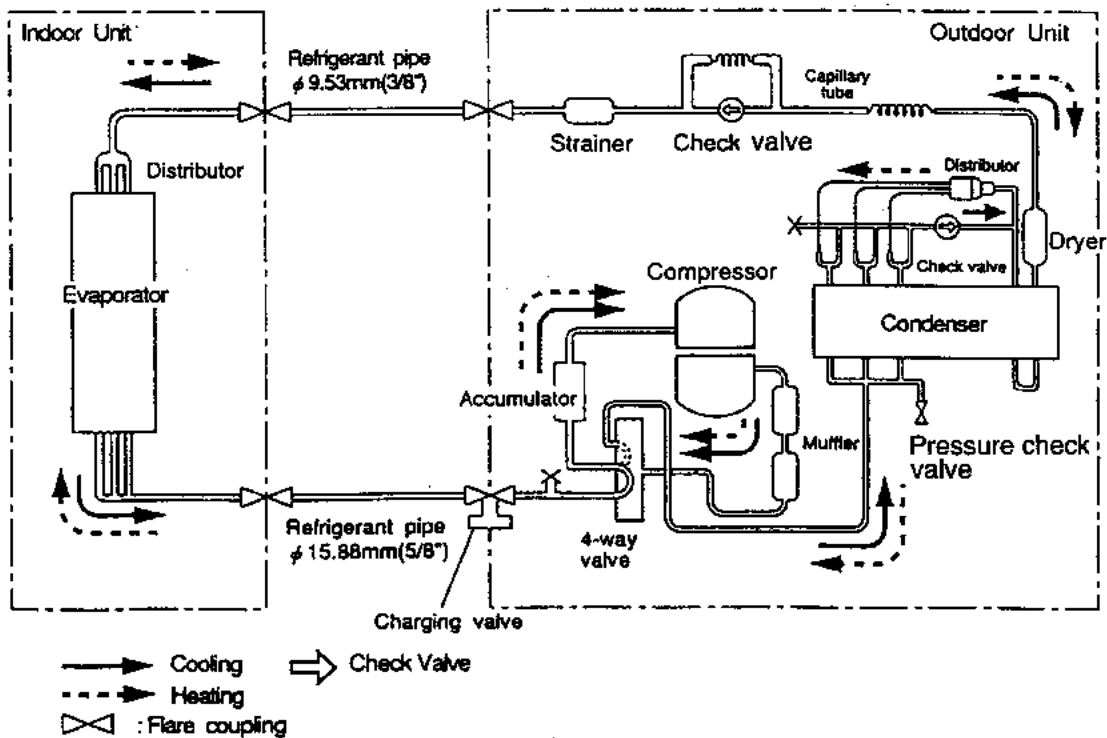


# REFRIGERANT SYSTEM DIAGRAM

Models: RD-30/ROW-30B

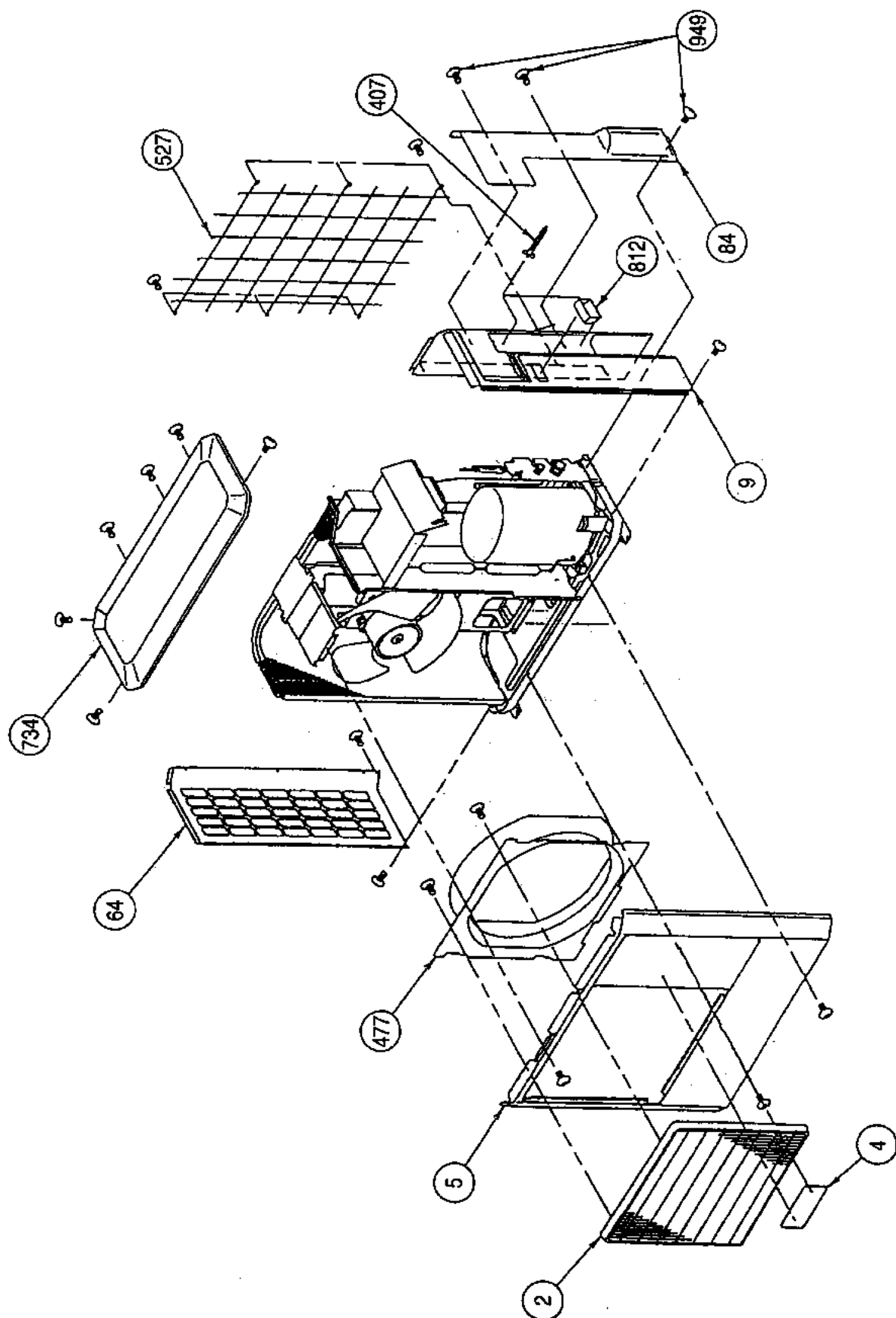


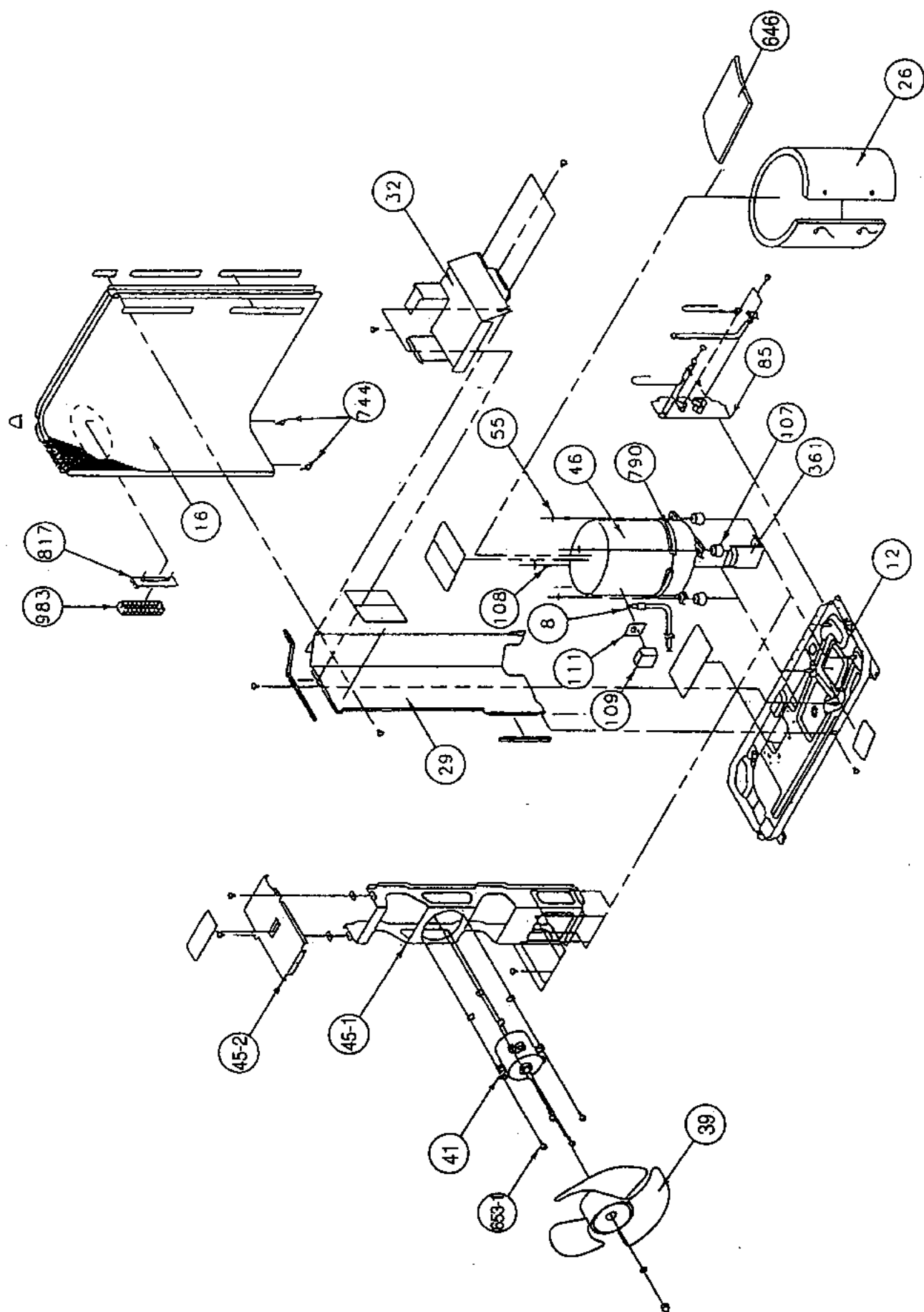
Models: RD-30R/ROW-30RB

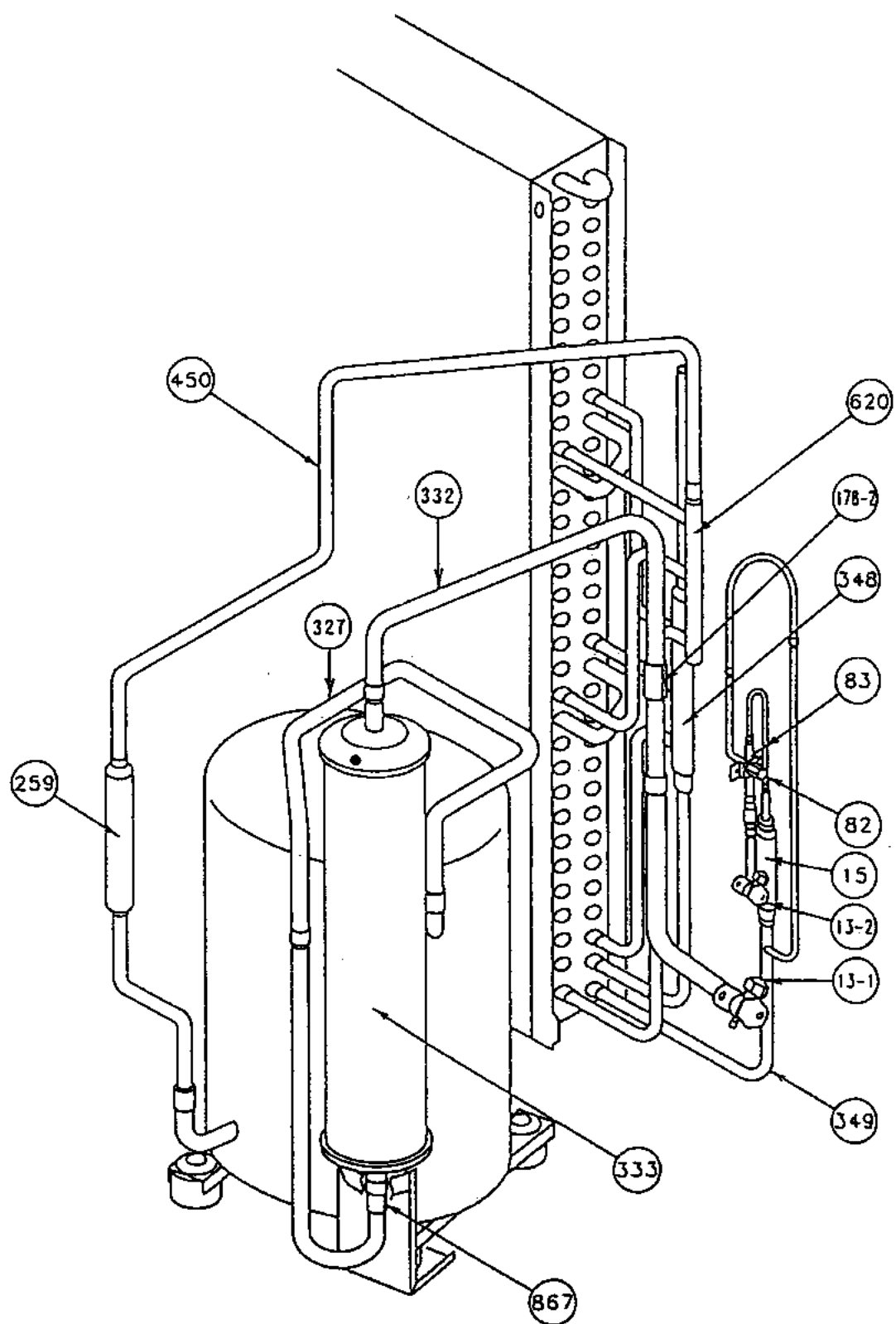


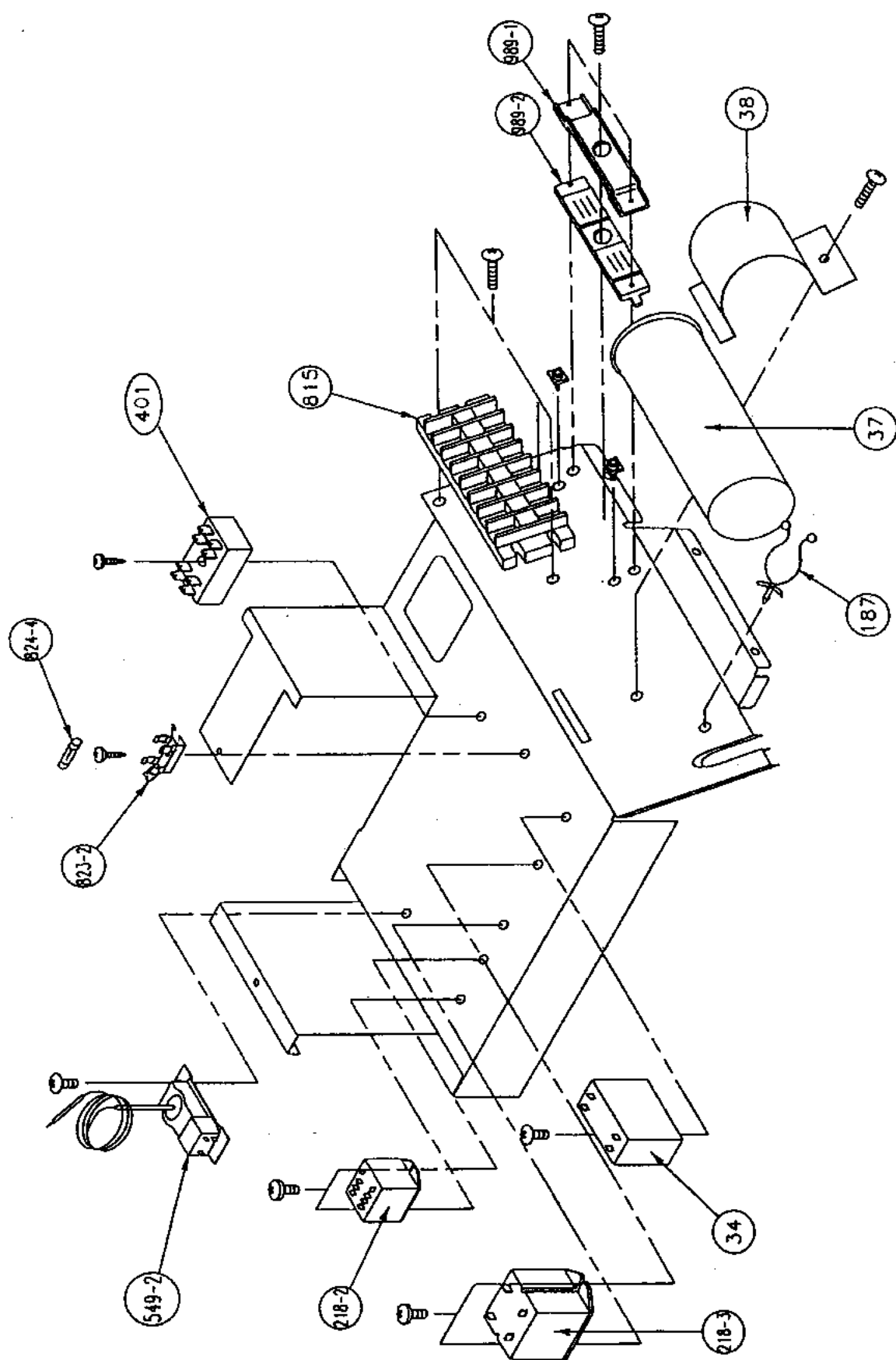
## DISASSEMBLY ILLUSTRATION

Model: ROW-30B

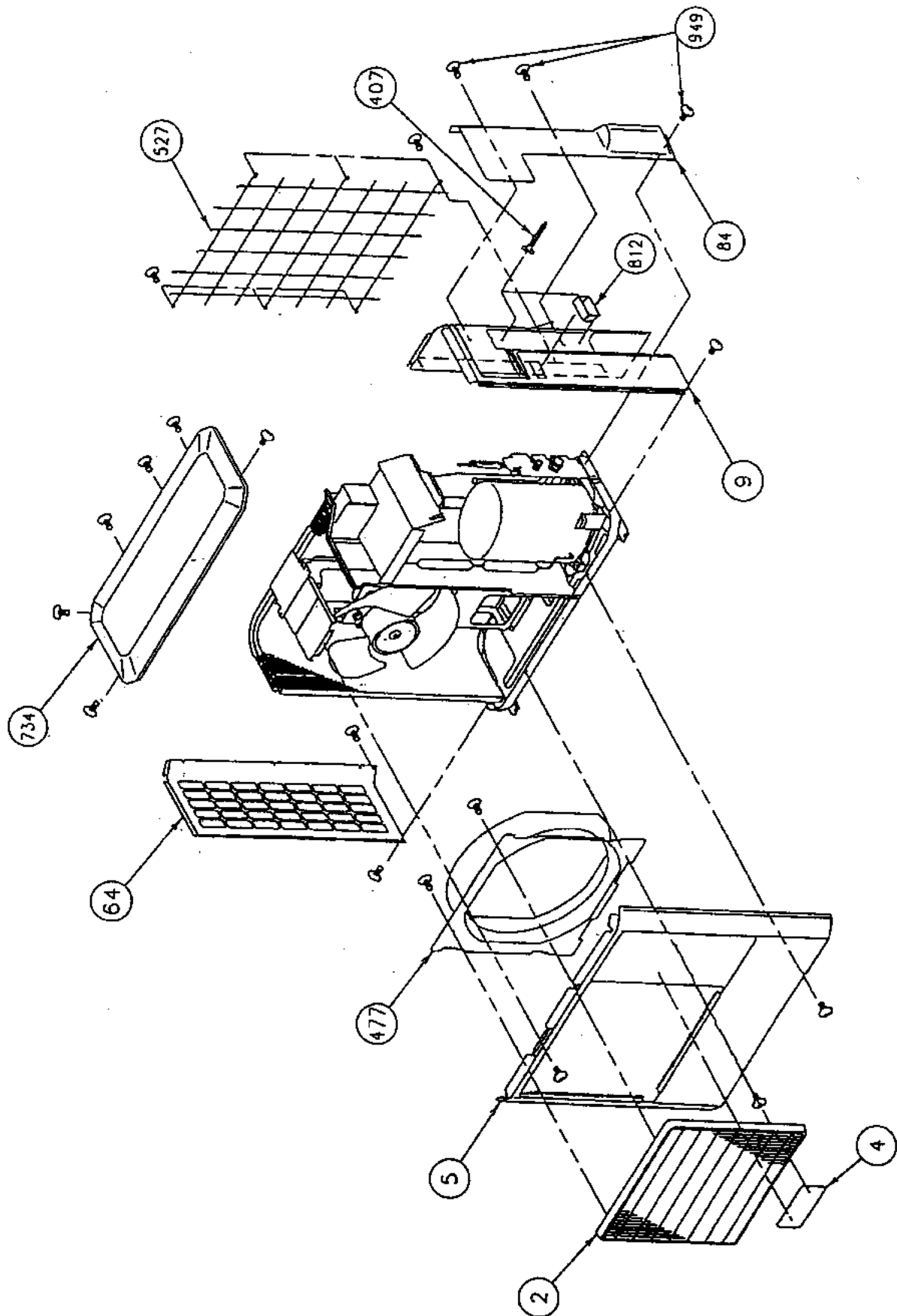


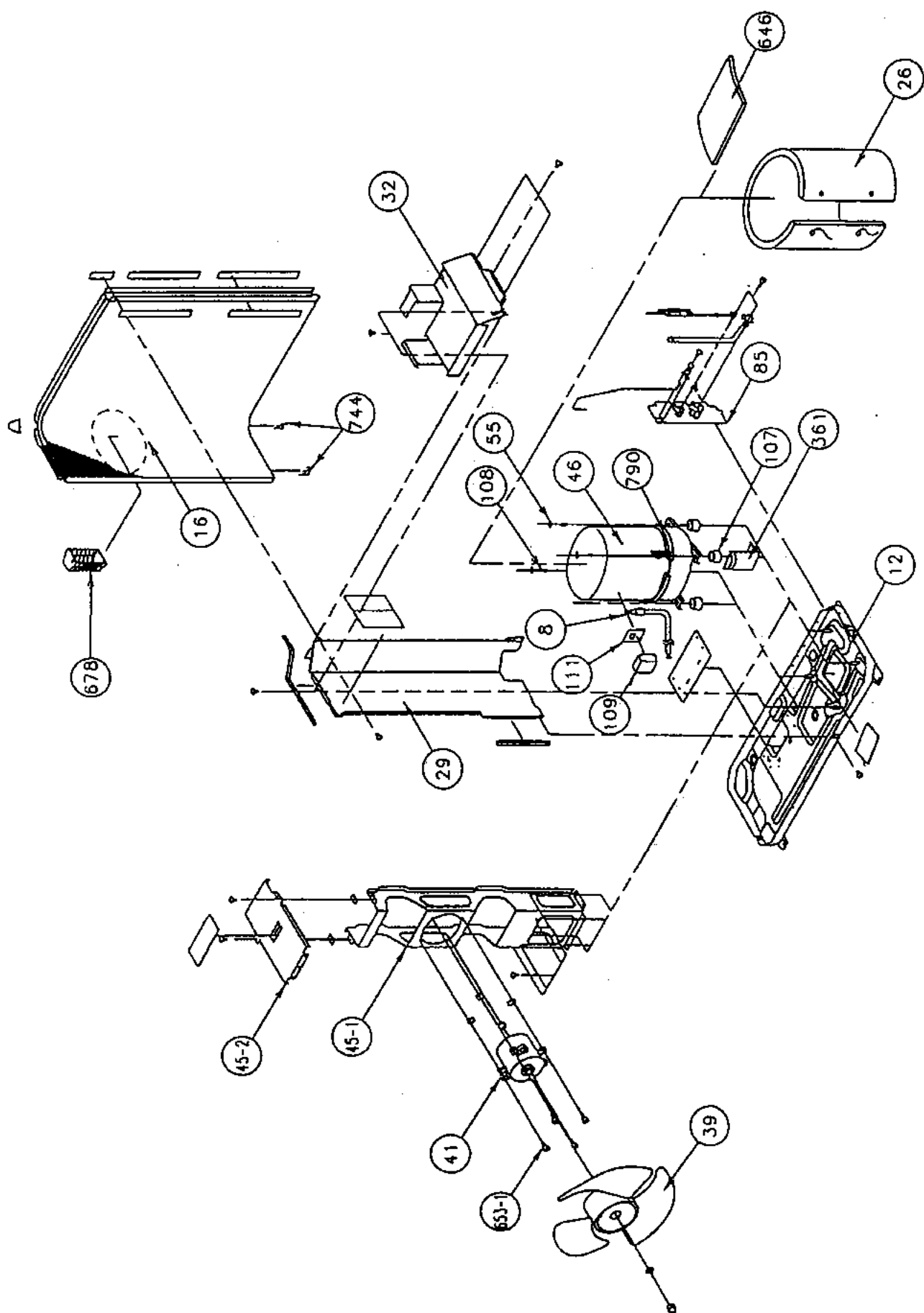


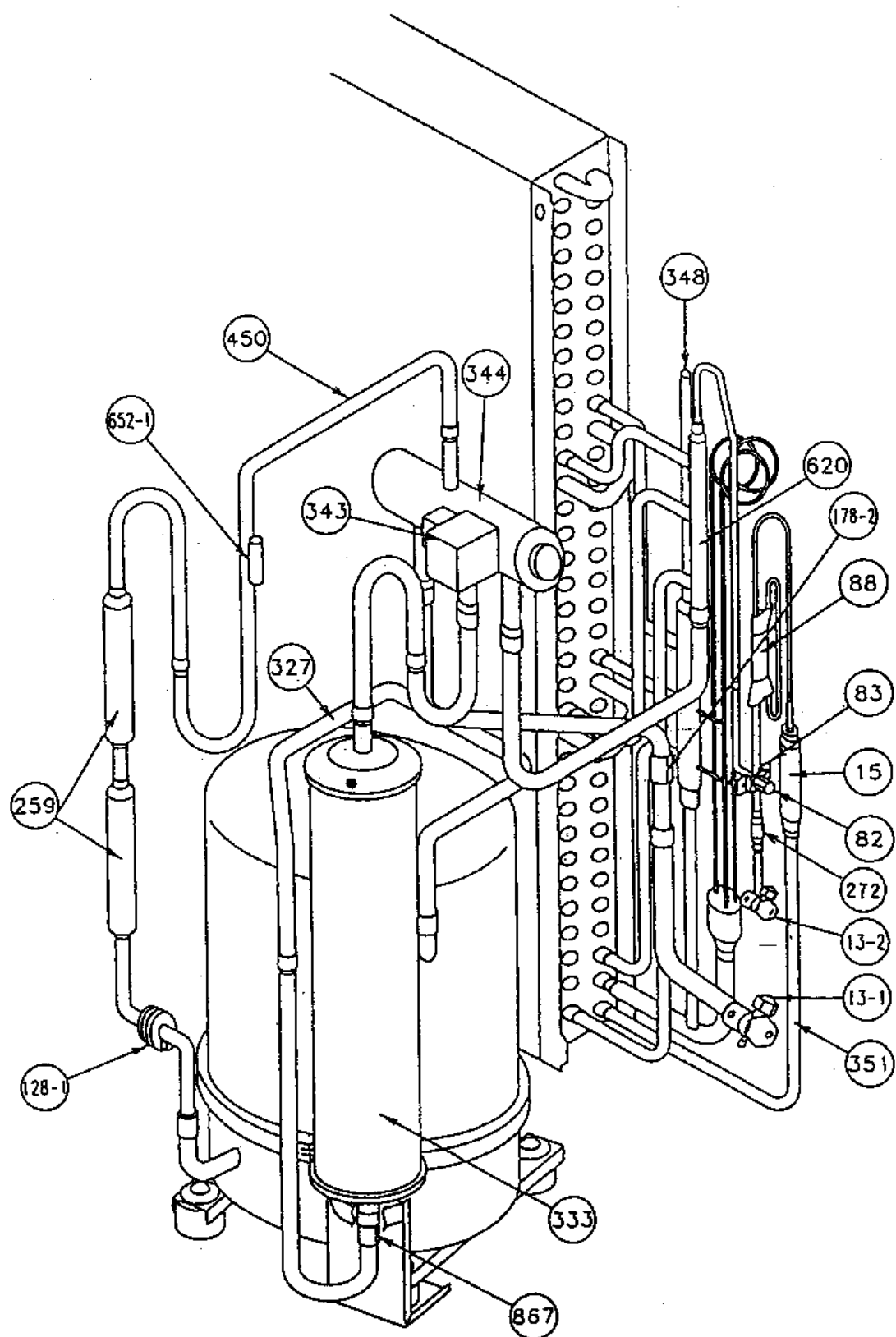


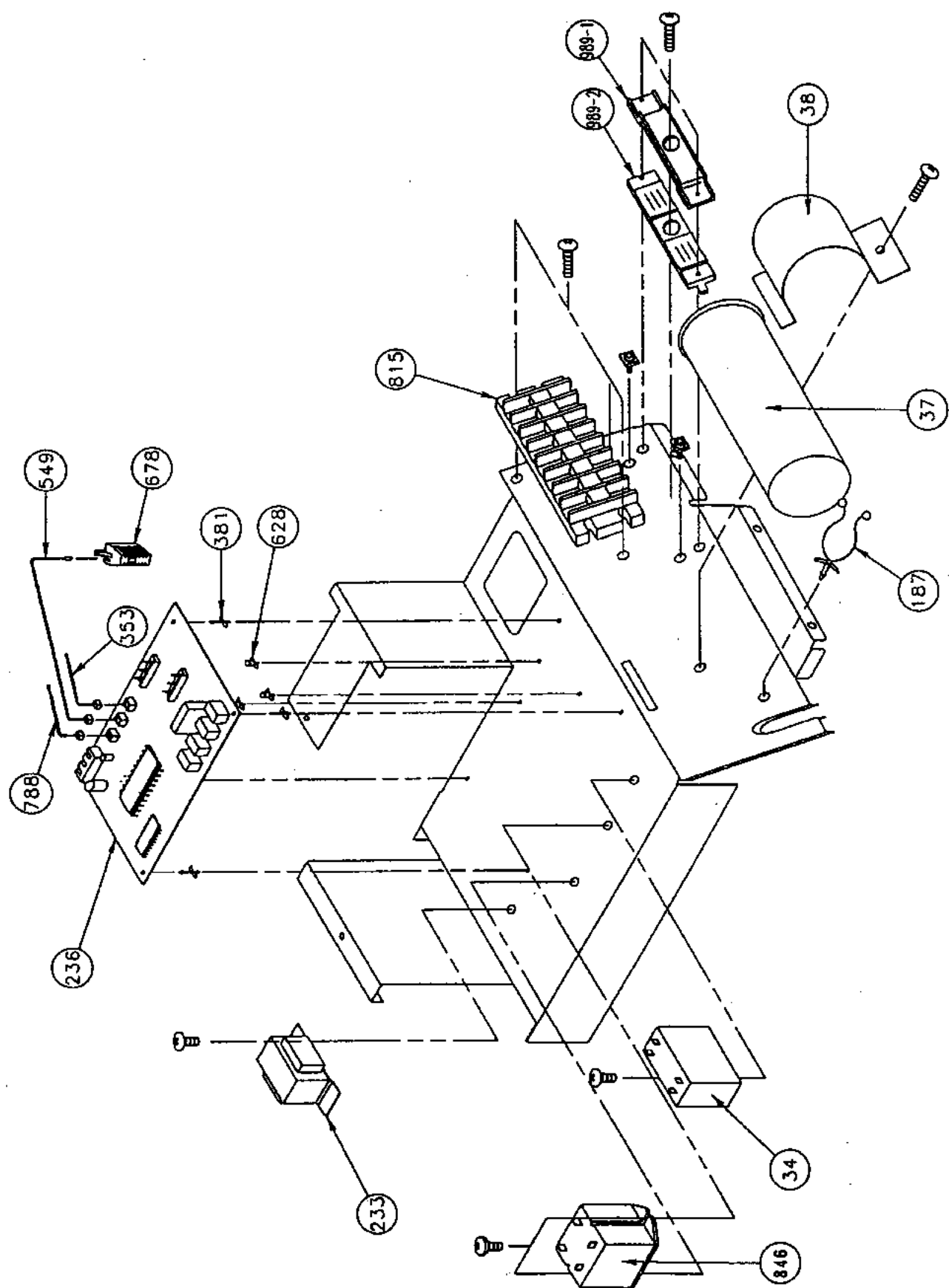


Model: ROW-30RB

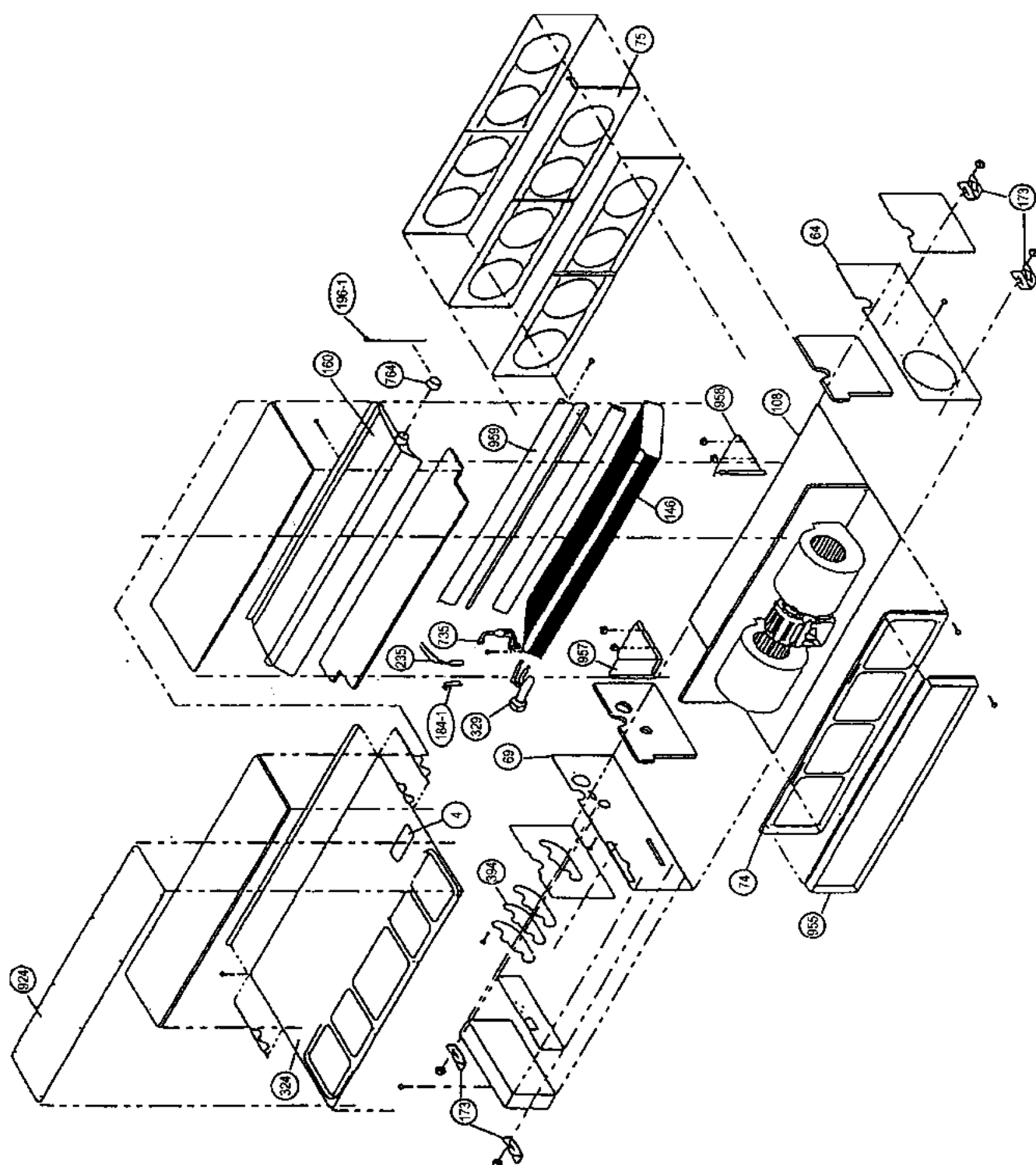


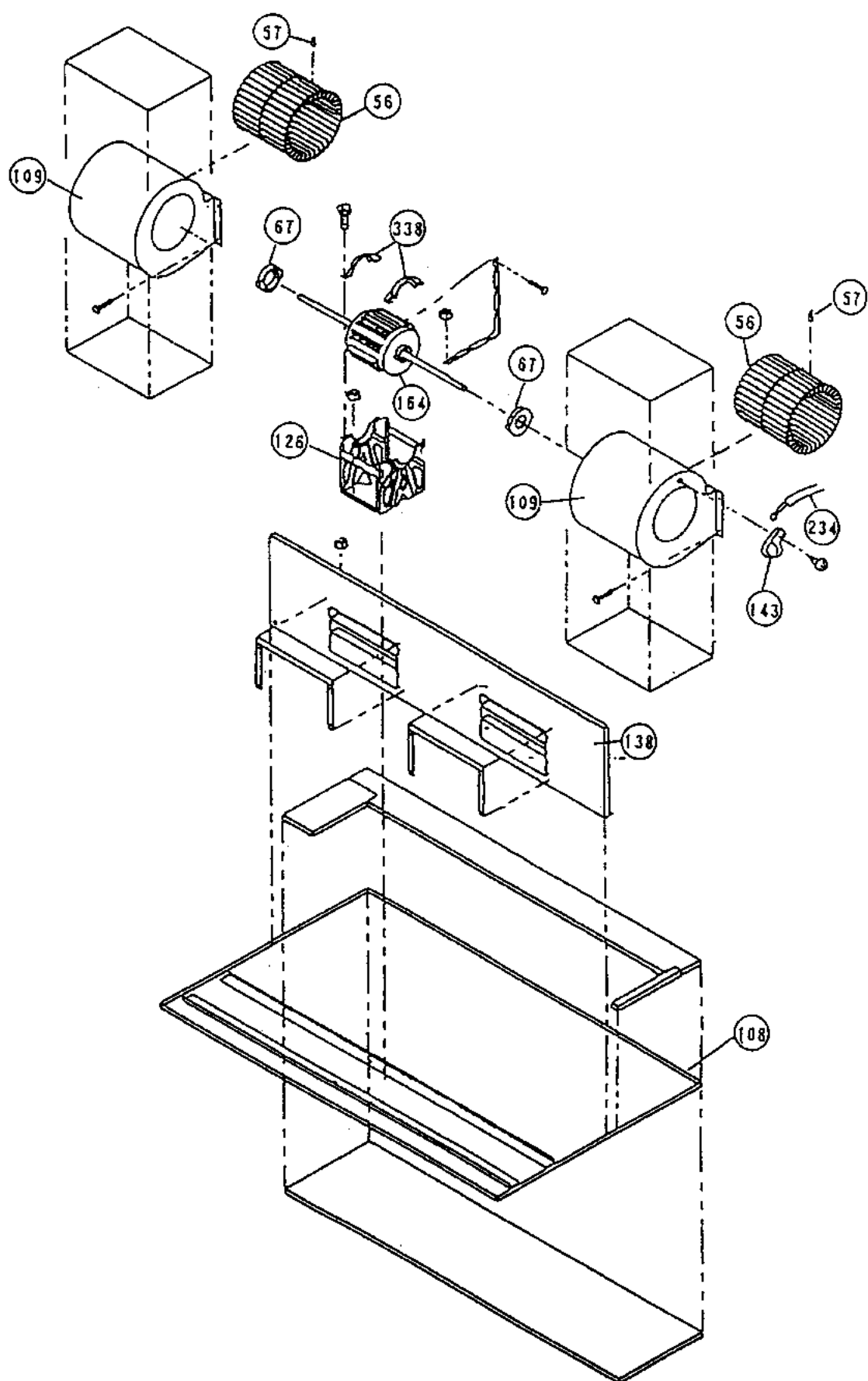




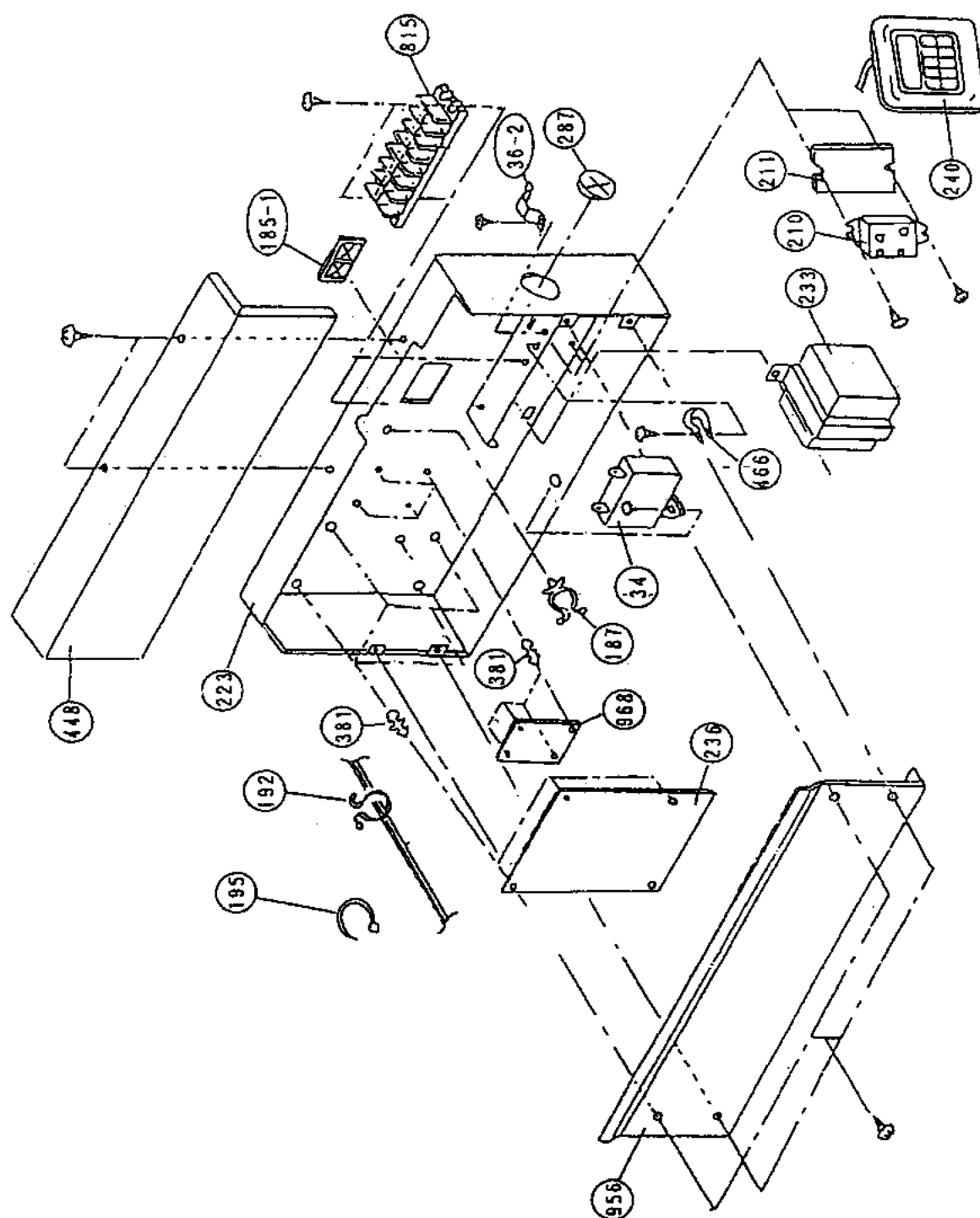


Models: RD-30, RD-30R

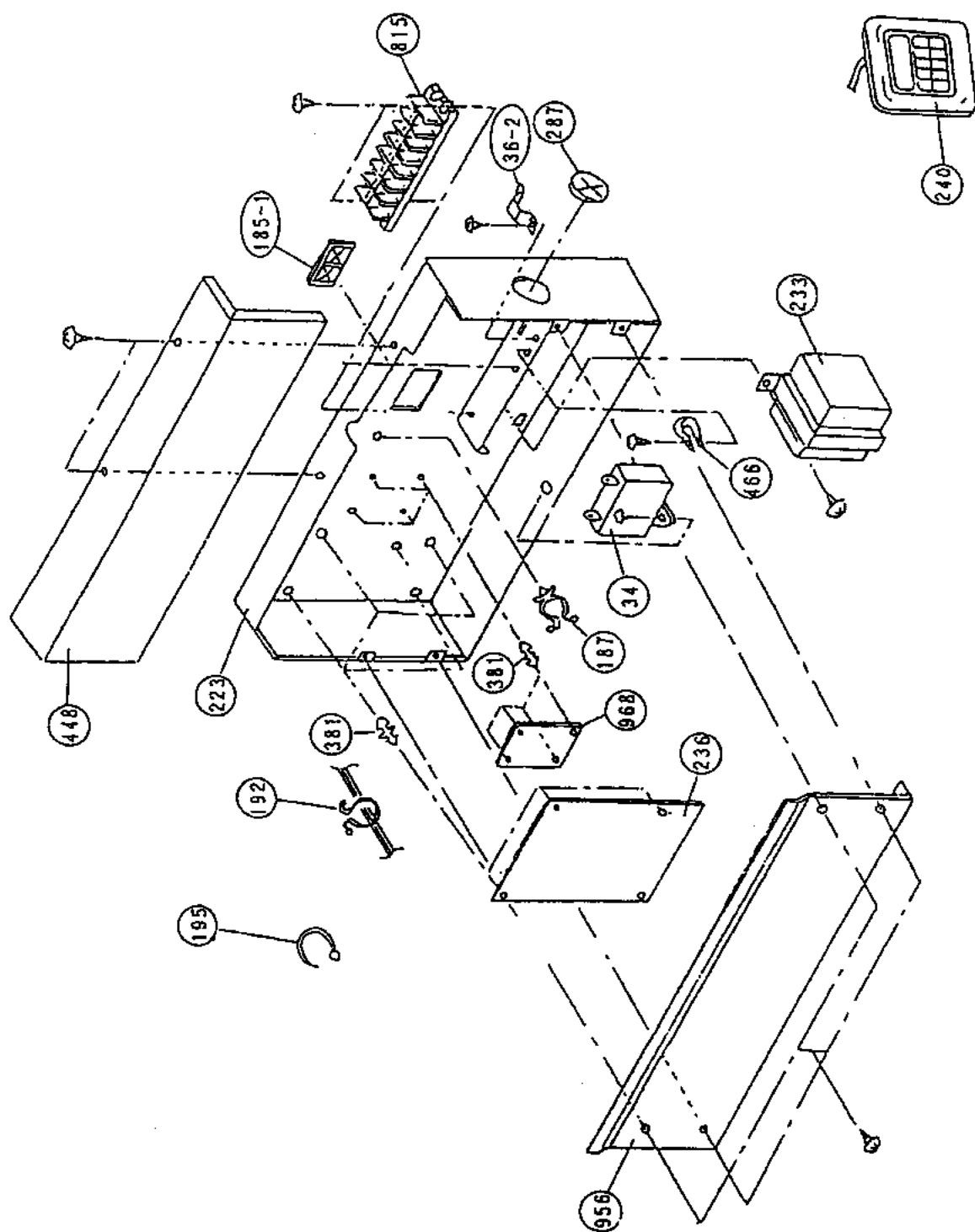




Model: RD-30



Model: RD-30R



## PARTS LIST

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

## INDOOR UNIT

| Ref. No. | Description              | Part No.     |              | Ord. Q'ty | Ref. No. | Description            | Part No.     |              | Ord. Q'ty |
|----------|--------------------------|--------------|--------------|-----------|----------|------------------------|--------------|--------------|-----------|
|          |                          | RD-30        | RD-30R       |           |          |                        | RD-30        | RD-30R       |           |
| 4        | Emblem-Rear              | 9301702019   | 9301702019   |           | 211      | Cushion Rubber         | 313806328306 | —            |           |
| 34       | Capacitor (Fan Motor)    | 9700468035   | 9700468035   |           | 223      | Control Box Metal Assy | 9356558005   | 9356558005   |           |
| 36-2     | Gord Holder Metal        | 9356362008   | 9356362008   |           | 233      | Power Transformer      | 9701678013   | 9701678013   |           |
| 56       | Sirocco Fan Assy         | 9356531022   | 9356531022   |           | 234      | Thermistor Assy        | 9302745008   | 9302745008   |           |
| 57       | Hex. Socket Screw        | 313616213202 | 313616213202 |           | 235      | Thermistor Assy-Pipe   | 9701329076   | 9701329076   |           |
| 64       | Cabinet-Left Metal       | 9356551006   | 9356551006   |           | 236      | Controller PCB Assy    | 9701705016   | 9701594023   |           |
| 67       | Rubber (Vibration-proof) | 313659068604 | 313659068604 |           | 240      | Remote Control Unit    | 9701673032   | 9701673025   |           |
| 69       | Cabinet-Right Metal      | 9356547009   | 9356547009   |           | 287      | Cap (Power)            | 9352173011   | 9352173011   |           |
| 74       | Intake Panel             | 9356537000   | 9356537000   |           | 324      | Top Plate              | 9356546002   | 9356546002   |           |
| 75       | Outlet Panel Assy        | 9356538007   | 9356538007   |           | 329      | Coupling Pipe Assy     | 9361547001   | 9361547001   |           |
| 108      | Base Assy                | 9356518009   | 9356518009   |           | 338      | Motor Fixture          | 9356536003   | 9356536003   |           |
| 109      | Casing Assy              | 9356527001   | 9356527001   |           | 381      | Locking Spacer         | 313209391506 | 313209391506 |           |
| 126      | Motor Fixing Table Assy  | 9356533002   | 9356533002   |           | 394      | Pipe Fixing Plate      | 9356554007   | 9356554007   |           |
| 138      | Separate Wall            | 9356523003   | 9356523003   |           | 448      | Control Box Metal-B    | 9356560008   | 9356560008   |           |
| 143      | Clamp NK-3M              | 313361274700 | 313361274700 |           | 466      | Clamp NK-4M            | 313714328805 | 313714328805 |           |
| 146      | Evaporator Assy          | 9361548015   | 9361548015   |           | 735      | Distributor Assy       | 9361543003   | 9361543003   |           |
| 160      | Drain Pan Assy           | 9356542028   | 9356542028   |           | 764      | Drain Cap              | 9356541007   | 9356541007   |           |
| 164      | Fan Motor Assy           | 9600434024   | 9600434024   |           | 815      | Terminal-7P            | 9356560102   | 9356560102   |           |
| 173      | Hanger Bracket           | 9356563009   | 9356563009   |           | 924      | Intake Seal Plate      | 9356553000   | 9356553000   |           |
| 184-1    | Thermo. Spring-A         | 313728262708 | 313728262708 |           | 955      | Square Flange Assy     | 9356555004   | 9356555004   |           |
| 185-1    | Rubber Bushing           | 9357376004   | 9357376004   |           | 956      | Control Box Metal-E    | 9356900002   | 9356900002   |           |
| 187      | Clamp No. 1219           | 313361271706 | 313361271706 |           | 957      | Eva. Fixing Plate-R    | 9356521009   | 9356521009   |           |
| 192      | Clamp No. 062            | 313361271402 | 313361271402 |           | 958      | Eva. Fixing Plate-L    | 9356522006   | 9356522006   |           |
| 195      | Clamp SKB-100            | 313361275805 | 313361275805 |           | 959      | Eva. Seal Plate        | 9356540000   | 9356540000   |           |
| 196-1    | Clamp SKB-3M             | 312300787605 | 312300787605 |           | 968      | Relay PCB Assy         | 9701594030   | 9701594030   |           |
| 210      | Main Relay               | 9356781007   | —            |           |          |                        |              |              |           |

## OUTDOOR UNIT

| Ref. No. | Description                  | Part No.     |              | Ord. Q'ty | Ref. No. | Description               | Part No.     |              | Ord. Q'ty |
|----------|------------------------------|--------------|--------------|-----------|----------|---------------------------|--------------|--------------|-----------|
|          |                              | ROW-30B      | ROW-30RB     |           |          |                           | ROW-30B      | ROW-30RB     |           |
| 2        | Fan Cover                    | 9359808015   | 9359808015   |           | 259      | Muffler                   | 313755083903 | 313755083903 |           |
| 4        | Emblem-Rear                  | 313791088308 | 313791088308 |           | 272      | Strainer                  | —            | 9360147011   |           |
| 5        | Cabinet-A, Painted           | 9359797029   | 9359797029   |           | 327      | Suction Pipe-A            | 9360152008   | 9360152008   |           |
| 8        | Wire Assy (Shield)-D         | 9359904021   | 9359904021   |           | 332      | Suction Pipe-E            | 9361052000   | —            |           |
| 9        | Cabinet-B, Painted           | 9359798026   | 9359798026   |           | 333      | Accumulator               | 9360183002   | 9360183002   |           |
| 12       | Base Assy, Painted           | 9359812029   | 9359812029   |           | 343      | Solenoid Coil             | —            | 9360538024   |           |
| 13-1     | 3-way Valve (5/8)            | 9360157003   | 9360157003   |           | 344      | 4-Way Valve               | —            | 9360195005   |           |
| 13-2     | 3-way Valve (3/8)            | 9360150004   | 9360150004   |           | 348      | Outlet Pipe (Cond.) Assy  | 9360171009   | 9360131003   |           |
| 15       | Dryer                        | 9353789006   | 9353789006   |           | 349      | Outlet Pipe-E             | 9360174000   | —            |           |
| 16       | Condenser Assy               | 9360280015   | 9360280015   |           | 351      | Outlet Pipe-F             | —            | 9360158000   |           |
| 26       | Compressor Cover             | 9362501002   | 9362501002   |           | 353      | Thermistor Assy-Pipe      | —            | 9701330010   |           |
| 29       | Separate Wall                | 9359804017   | 9359804017   |           | 361      | Accumulator Support       | 9359843016   | 9359843016   |           |
| 32       | Control Box Metal            | 9359839019   | 9359839019   |           | 381      | Locking Spacer            | —            | 313209391506 |           |
| 34       | Capacitor (Fan Motor)        | 9357965024   | 9700467052   |           | 401      | Terminal                  | 9701971015   | —            |           |
| 37       | Running Capacitor            | 9357211077   | 9357211077   |           | 407      | Clip (Cable) No. 1259     | 313739340109 | 313739340109 |           |
| 38       | Capacitor Clamp              | 9360610010   | 9360610010   |           | 450      | Discharge Pipe-A Assy     | 9360166005   | 9360124005   |           |
| 39       | Propeller Fan Assy           | 9359837015   | 9359837015   |           | 477      | Bell Mouth                | 9359809012   | 9359809012   |           |
| 41       | Fan Motor Assy-Outer         | 9600266045   | 9600266045   |           | 527      | Protection Net            | 9359844013   | 9359844013   |           |
| 45-1     | Motor Bracket Metal          | 9359801016   | 9359801016   |           | 549      | Thermostat Assy-Outer     | —            | 9357328027   |           |
| 45-2     | Motor Bracket Top Metal      | 9359803010   | 9359803010   |           | 549-2    | Thermostat Outdoor        | 9353680006   | —            |           |
| 46       | Compressor Assy              | 9360613011   | 9360613011   |           | 620      | Inlet Pipe (Cond.) Assy   | 9360167002   | 9360126009   |           |
| 55       | Special Nut M8 (For Comp.)   | 313252257701 | 313252257701 |           | 628      | Locking Spacer-B          | —            | 313005446558 |           |
| 64       | Cabinet-Left                 | 9359840022   | 9359840022   |           | 646      | Compressor Cover-B        | 9353368003   | 9353368003   |           |
| 82       | Check Joint Assy             | 9360762009   | 9360771001   |           | 652-1    | Thermistor Holder Pipe    | —            | 313806262805 |           |
| 83       | Check Joint Bracket          | 9359807018   | 9359807018   |           | 653-1    | Bolt (Fan Motor Fixing)   | 0700156014   | 0700156014   |           |
| 84       | Valve Cover                  | 9359817017   | 9359817017   |           | 678      | Bracket (Thermistor)      | —            | 313557406106 |           |
| 85       | Valve Fixing Plate           | 9359806011   | 9359806011   |           | 734      | Cabinet Top Plate         | 9359799023   | 9359799023   |           |
| 88       | Restrictor Valve             | —            | 9360146007   |           | 744      | Clamp (Condenser)         | 313166374106 | 313166374106 |           |
| 107      | Rubber Seat-A (For Comp.)    | 313102081406 | 313102081406 |           | 788      | Thermistor-Discharge      | —            | 9358337011   |           |
| 108      | Sleeve-A (For Comp.)         | 313696081700 | 313696081700 |           | 790      | Belt Heater               | 9361140035   | 9361140035   |           |
| 109      | Terminal Cover (For Comp.)   | 9352456022   | 9352456022   |           | 812      | Grip                      | 9352157004   | 9352157004   |           |
| 111      | Terminal Packing (For Comp.) | 9352456039   | 9352456039   |           | 815      | Terminal-8P               | 9356484052   | 9356484052   |           |
| 128-1    | Rubber (Discharge Pipe)      | —            | 313155066308 |           | 817      | Thermostat Fixture        | 9352164019   | —            |           |
| 178-2    | Capillary Holder Rubber      | 313394274808 | 313394274808 |           | 823-2    | Fuse Holder               | 0500063024   | —            |           |
| 187      | Clamp No 1219                | 313361271706 | 313361271706 |           | 824-4    | Fuse                      | 0600222529   | —            |           |
| 218-2    | Power Relay                  | 9351553012   | —            |           | 846      | Relay                     | —            | 9357058009   |           |
| 218-3    | Power Relay                  | 9353619006   | —            |           | 867      | Accumulator Holder Rubber | 9354022010   | 9354022010   |           |
| 233      | Power Transformer            | —            | 9701549016   |           | 949      | Screw, Painted White      | 9305648009   | 9305648009   |           |
| 236      | Controller PCB Assy          | —            | 9702834012   |           | 983      | Thermostat Cover          | 9358274002   | —            |           |
|          |                              |              |              |           | 989-1    | Cord Clamp-A              | 9359822011   | 9359822011   |           |
|          |                              |              |              |           | 989-2    | Cord Clamp-B              | 9359823018   | 9359823018   |           |

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

[INDOOR P.C.B.]  
CONTROLLER PCB ASSEMBLY (Ref. No. 236)

| Ref. No.                        | Description                        | PART No.   | Ord. Q'ty | Ref. No.               | Description                    | PART No.   | Ord. Q'ty |
|---------------------------------|------------------------------------|------------|-----------|------------------------|--------------------------------|------------|-----------|
| IC1                             | IC $\mu$ PD78011FCW-013            | 9701722013 |           | C8                     | Cap. Elec. 25V 2200 $\mu$ F    | 0300915417 |           |
| IC2                             | IC NJM7805FA                       | 0100462081 |           | C9, 13, 17, 18, 21, 24 | Cap. Ceramic 0.1 $\mu$ F       | 0300988251 |           |
| IC3                             | IC NJM7812FA                       | 0100462104 |           | C10                    | Cap. Elec. 35V 2200 $\mu$ F    | 0300915042 |           |
| IC4                             | IC HI2002 (RD-30R)                 | 9701384020 |           | C12                    | Cap. Elec. 25V 100 $\mu$ F     | 0300051375 |           |
| IC5, 6                          | IC BA12003                         | 0101650012 |           | C14, 15, 26, 27, CJ16  | Cap. Ceramic 50V 0.01 $\mu$ F  | 0300013113 |           |
| IC7                             | IC BA10358                         | 0101854014 |           | C19, 22, 25, 30        | Cap. Ceramic 50V 1000pF        | 0300011096 |           |
| IC8                             | IC PST800D-2-TP                    | 0101461113 |           | F1                     | FUSE BET 4A - 250V             | 0600222543 |           |
| RC1~3                           | RC Module ARCL12FS                 | 0200301013 |           | FH1, 2                 | Fuse Holder PFC5000-0502       | 0500158072 |           |
| Q1                              | Xstr 2SD880                        | 0000001014 |           | VA1~3                  | Varistor TNR12G471K            | 0000038010 |           |
| Q2, 3, 6                        | Xstr DTG124ES                      | 0000002011 |           | SA1                    | Arrester DSA-362MA-05          | 0600168032 |           |
| Q4, 5                           | Xstr 2SG1815                       | 0000002011 |           | X1~3, 5                | Relay JQ1-12V                  | 9701316014 |           |
| D1                              | Diode D2SB20                       | 0000599023 |           | CR2                    | Network RPEL-121204            | 9701125012 |           |
| D2                              | Diode MTZJ15C                      | 0000852203 |           | SW1                    | Switch, Slide DSS804           | 9701393015 |           |
| D3                              | Diode 1SR139-400                   | 0000353137 |           | SW2                    | Switch, Rotary DRS4016-5       | 9701694013 |           |
| D4                              | Diode 51VB20                       | 0000292054 |           | HT1                    | Heat Sink PUG26-25             | 9701428014 |           |
| D5~7, 10                        | Diode 1SS133                       | 0000572019 |           | HT2                    | Heat Sink B.PUE-16             | 9701376018 |           |
| R1, 2                           | Res. Carbon 5.6k $\Omega$ $\pm$ 5% | 0200994192 |           | X1                     | X'tal Resonator EF0EC8384T4    | 9701261017 |           |
| R3, 15, 17, 22, 27              | Res. Carbon 1k $\Omega$ $\pm$ 5%   | 0200994017 |           | L2~4                   | EMI Filter EXCENT103DT         | 0400406396 |           |
| R4, 6, 10~12, 14, 19~21, 23, 26 | Res. Carbon 10k $\Omega$ $\pm$ 5%  | 0200994253 |           | CN1                    | Plug. PCB 53406-9910 (RD-30)   | 0500951048 |           |
| R5, 13, 28                      | Res. Carbon 390 $\Omega$ $\pm$ 5%  | 0200993874 |           | CN1                    | Plug. PCB 53406-9210 (RD-30R)  | 0500951062 |           |
| R7                              | Res. Metal 15.4k $\Omega$ $\pm$ 1% | 0201028759 |           | CN3                    | Plug. PCB B2P3-VH-B-C          | 0500011773 |           |
| R8                              | Res. Metal 28.0k $\Omega$ $\pm$ 1% | 0201028742 |           | CN4                    | Plug. PCB 53331-0210           | 0501033019 |           |
| R9                              | Res. Carbon 4.7k $\Omega$ $\pm$ 5% | 0200994178 |           | CN5                    | Plug. PCB 5430C063             | 0500957026 |           |
| R16                             | Res. Metal 3.32k $\Omega$ $\pm$ 1% | 0201028568 |           | CN6                    | Plug. PCB B2P3-VH-B-R          | 0500011766 |           |
| R18                             | Res. Metal 10.5k $\Omega$ $\pm$ 1% | 0201028537 |           | CN7, 13                | Plug. PCB B4B-XH-AM            | 0500005314 |           |
| R24                             | Res. Metal 22.1k $\Omega$ $\pm$ 1% | 0201028513 |           | CN8                    | Plug. PCB 53405-0310           | 0500940035 |           |
| R25                             | Res. Metal 33.2k $\Omega$ $\pm$ 1% | 0201028544 |           | CN9                    | Plug. PCB B2P-VH-B             | 0500011124 |           |
| C1, 4                           | Cap. Plastic 250V 0.1 $\mu$ F      | 0300894835 |           | CN10                   | Plug. PCB B2P-VH-B-C           | 0500011568 |           |
| C2, 3                           | Cap. Ceramic 50V 4700pF            | 0300727546 |           | CN11                   | Plug. PCB B3B-XH-AM            | 0500005338 |           |
| C5                              | Cap. Elec. 50V 2200 $\mu$ F        | 0301206026 |           | CN12                   | Plug. PCB B3P-SHF-1AA          | 0500006021 |           |
| C6                              | Cap. Elec. 50V 10 $\mu$ F          | 0300003145 |           | CN18                   | Plug. PCB B2B-XASK-1-A (RD-30) | 0501045012 |           |
| C7, 11, 20, 23                  | Cap. Elec. 25V 10 $\mu$ F          | 0300004258 |           | E                      | Wire w/Terminal GRN L=300      | 9701755011 |           |

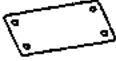
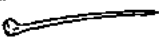
[OUTDOOR P.C.B.]  
CONTROLLER PCB ASSEMBLY (Ref. No. 236)

| Ref. No.                           | Description                        | PART No.   | Ord. Q'ty | Ref. No.         | Description                   | PART No.   | Ord. Q'ty |
|------------------------------------|------------------------------------|------------|-----------|------------------|-------------------------------|------------|-----------|
| IC1                                | IC $\mu$ PD78081GU-011             | 9701721016 |           | C9~11, 14~16, 30 | Cap. Ceramic 50V 0.01 $\mu$ F | 0300013113 |           |
| IC2                                | IC HU2001                          | 9701651016 |           | C17              | Cap. Elec. 25V 100 $\mu$ F    | 0300051375 |           |
| IC3                                | IC PCT800D-2-TP                    | 0101461113 |           | C20, 23, 26, 35  | Cap. Ceramic 50V 1000pF       | 0300011096 |           |
| IC4                                | IC NJM7805FA                       | 0100462081 |           | C33              | Cap. Elec. 25V 2200 $\mu$ F   | 0300915417 |           |
| IC5, 6                             | IC BA12003                         | 0101650012 |           | F1               | Fuse 3.15A - 250V             | 0600222512 |           |
| RC1                                | RC Module ARCL14FS                 | 0200301020 |           | FH1, 2           | Fuse Holder PFC5000-0502      | 0500158072 |           |
| Q1                                 | Xstr 2SD880                        | 0000001014 |           | SA1              | Arrester DSA-362MA-05         | 0600168032 |           |
| Q2, 3                              | Xstr DTG124ES                      | 0000517010 |           | K1~3, 6          | Relay JQ1-12V                 | 9701316014 |           |
| D1                                 | Diode D2SB20                       | 0000599023 |           | CR1, 3           | Network RPEL-121204           | 9701125012 |           |
| D2                                 | Diode MTZJ15C                      | 0000852203 |           | CR Module        | ARCL12FS103J102J103M          | 0200301020 |           |
| D3~5                               | Diode 1SR139-400                   | 0000353137 |           | L1               | EMI Filter SU16VF-15030       | 0400134114 |           |
| D6                                 | Diode 1SS133                       | 0000572019 |           | VA1, 4           | Varistor TNR12G471K           | 0000038010 |           |
| LED1, 2                            | Diode SLR-325VC                    | 0000813259 |           | HT1              | Heat Sink PUG26-25            | 9701428014 |           |
| R1, 2                              | Res. Carbon 5.6k $\Omega$ $\pm$ 5% | 0200994192 |           | X1               | X'tal Resonator EF0EC5004T    | 9701261024 |           |
| R3, 6, 10~12, 14, 16, 18, 20, 24   | Res. Carbon 1k $\Omega$ $\pm$ 5%   | 0200994017 |           | CN1              | Plug. PCB 53406-9110          | 0500951086 |           |
| R4, 26                             | Res. Carbon 4.7k $\Omega$ $\pm$ 5% | 0200994178 |           | CN2              | Plug. PCB B2P3-VH-B-R         | 0500011766 |           |
| R5, 7~9, 13, 21~23, 25             | Res. Carbon 10k $\Omega$ $\pm$ 5%  | 0200994253 |           | CN3              | Plug. PCB B2B-XH-AM           | 0500005321 |           |
| R15, 17                            | Res. Metal 14k $\Omega$            | 0201028612 |           | CN4              | Plug. PCB 53331-0210          | 0501033019 |           |
| R19                                | Res. Metal 6.65k $\Omega$          | 0201028766 |           | CN5              | Plug. PCB B4P7-VH-B           | 0500011742 |           |
| C1, 4                              | Cap. Plastic 250V 0.1 $\mu$ F      | 0300894835 |           | CN8              | Plug. PCB 179844-2            | 0501121020 |           |
| C2, 3                              | Cap. Ceramic 50V 4700pF            | 0300727546 |           | CN9              | Plug. PCB 179844-1            | 0501121013 |           |
| C5                                 | Cap. Elec. 50V 2200 $\mu$ F        | 0301206026 |           | CN10             | Plug. PCB B4P-SHF-1AA         | 0500006038 |           |
| C6, 7, 21, 24, 27                  | Cap. Elec. 25V 10 $\mu$ F          | 0300004258 |           | CN11             | Plug. PCB B2P-VH-B            | 0500011124 |           |
| C8, 18, 19, 22, 25, 28, 29, 34, 36 | Cap. Ceramic 0.1 $\mu$ F           | 0300988251 |           | CN12             | Plug. PCB B2P-VH-B-C          | 0500011568 |           |
|                                    |                                    |            |           | CN13             | Plug. PCB B2P-VH-B-R          | 0500011148 |           |
|                                    |                                    |            |           | CN15             | Plug. PCB B2B-XASK-1-A        | 0501045012 |           |
|                                    |                                    |            |           | E                | Wire w/Terminal GRN L=210     | 9701325016 |           |

RELAY PCB ASSEMBLY (Ref. No. 968)

| Ref. No. | Description                            | PART No.   | Ord. Q'ty | Ref. No. | Description               | PART No.   | Ord. Q'ty |
|----------|----------------------------------------|------------|-----------|----------|---------------------------|------------|-----------|
| R201     | Res. Carbon 1/2W 680 $\Omega$ $\pm$ 5% | 0200012681 |           | CR201    | CR Absorber RPEL-121204-0 | 9701125012 |           |
| HT201    | Heat Sink OSH-47300-SP                 | 9701754014 |           | CN201    | Plug. PCB B4P7-VH-B       | 0500011742 |           |
| SSR201   | Relay S202SE2                          | 9701719013 |           |          |                           |            |           |

# INDOOR UNIT ACCESSORIES

| Name and Shape                                                                                                     | Q'ty | Application                                        | RD-30        | RD-30R       |
|--------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------|--------------|--------------|
| Installation Template             | 1    | For positioning the indoor unit                    | 9357036007   | 9357036007   |
| Hanger                            | 4    | For suspending the indoor unit from ceiling        | 9356563009   | 9356563009   |
| Special nut A (large flange)      | 4    | For suspending the indoor unit from ceiling        | 313005446653 | 313005446653 |
| Special nut B (small flange)      | 4    |                                                    | 313005446759 | 313005446759 |
| Coupler heat insulation (large)   | 2    | For indoor side pipe joint (large pipe)            | 9350716029   | 9350716029   |
| Coupler heat insulation (small)   | 1    | For indoor side pipe joint (small pipe)            | 9352766015   | 9352766015   |
| Nylon fastener                    | 1    | For fixing the drain hose                          | 312300787605 | 312300787605 |
| Remote control unit             | 1    |                                                    | 9701673032   | 9701673025   |
| Remote control unit cord clamp  | 10   | For installing the remote control unit cord        | 313714181904 | 313714181904 |
| Tapping screw (flush heads)     | 10   | For installing the remote control unit cord clamp  | 301141153027 | 301141153027 |
| Auxiliary pipe assembly         | 1    | For wiring conduit (gas side) connection           | 9356995022   | 9356995022   |
| Drain hose insulation           | 1    | Insulates the drain hose and vinyl hose connection | 313806217708 | 313806217708 |

# OUTDOOR UNIT ACCESSORIES

| Name and Shape                                                                                              | Q'ty | Application                                           | ROW-30B      | ROW-30RB     |
|-------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------|--------------|--------------|
| Cap (drain)              | 2    | For outdoor unit drain piping work                    | —            | 313166024302 |
| Hexagon wrench           | 1    | For opening the refrigerant valve on the outdoor unit | 9351228019   | 9351228019   |
| Cable clip               | 2    | For power cord binding                                | 313739340109 | 313739340109 |
| Tapping screw (painted)  | 1    | For fixing the valve cover                            | 9305648009   | 9305648009   |
| Drain pipe               | 1    | For outdoor unit drain piping work                    | —            | 9303029015   |



MANUFACTURER:

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