



BASE STATION POWER SUPPLY

PS-80



*PS-80 and IC-A200 sold separately.

Icom's legendary performance is now available in a Base Station for your ground-based VHF communications needs. Presenting the PS-80 Base Station Power Supply for use with the IC-A200 VHF COMM Transceiver.

Outstanding features include:

- Quick, easy installation of Icom's IC-A200 for quality ground-based VHF communications.
 - One compact unit contains VHF Transceiver*, power supply, speaker, microphone connector and headphone connector.
 - User selectable AC input voltage - 110, 220 or 240 V AC.
 - Power supply supports a full 7 Watt transmitter output.
 - Choice of available options: hand microphone and desktop microphone.
 - Large internal speaker with 5 Watts of power.
 - No wiring necessary - comes with all connectors in place to install IC-A200 and an outside antenna.
- Easy to use - all functions accessed from three knobs and two switches on the front panel.
 - Transmit and Receive on all 760 COMM frequencies.
 - Active and standby frequencies displayed simultaneously - switch back and forth between the two frequencies quickly with the "flip-flop" button.
 - Large back-lit LCD provides excellent viewing from any location in the cockpit.
 - Nine programmable memory channels for easy operation even when used by more than one person.
 - Memory channels can be "locked in" to prevent accidental changing.
 - Full 7 Watt output.

Icom Inc.

SPECIFICATIONS

- Input Voltage : 117 V AC +/- 10%,
220 V AC +/- 10%, or
240 V AC +/- 10% (selectable)
- Output Voltage : 13.8 V DC +/- 5%
(negative ground)
- Output Current : 6 A
- Duty rate : 1 hour for maximum current
- Ripple Voltage : Less than 20 mV rms
- Usable temperature range : -10°C ~ +40°C
+14°F ~ +104°F
- Dimensions : 200(W) x 200(H) x 300(D) mm
(projections not included) 7.9(W) x 7.9(H) x 11.8(D) in
- Weight : 6.0 kg; 13.2 lb

OPTIONS

- **B-ANT** BASE STATION ANTENNA
Mounts easily on outside of building for increased operating distance.
- **SM-6** DESKTOP MICROPHONE
Easy-to-use electret condenser-type microphone.
- **HAND MICROPHONE**
(Model number to be announced).

All stated specifications are approximate and subject to change without notice or obligation.

SPECIFICATIONS

GENERAL

- Frequency coverage : 118.000~136.975 MHz
- Mode : AM (6K00A3E)
- Memory channels : 9
- Tuning steps : 25 kHz, 50 kHz or 1 MHz
- Antenna impedance : 50 Ω
- Power supply requirement : 13.8 V DC +/- 15%
(negative ground)
- Current drain (at 13.8 V DC) :

Transmit	2.6 A
Receive	320 mA
Squelched	
Max. audio	600 mA
- Usable temperature range : -20°C~+55°C
- Frequency stability : +/-0.0015% (-20°C~+55°C)
- Dimensions : 160(W) x 34(H) x 271(D) mm
(projections not included) 6.3(W) x 1.3(H) x 10.7(D) in
- Weight : 1.1 kg; 2.4 lb

TRANSMITTER

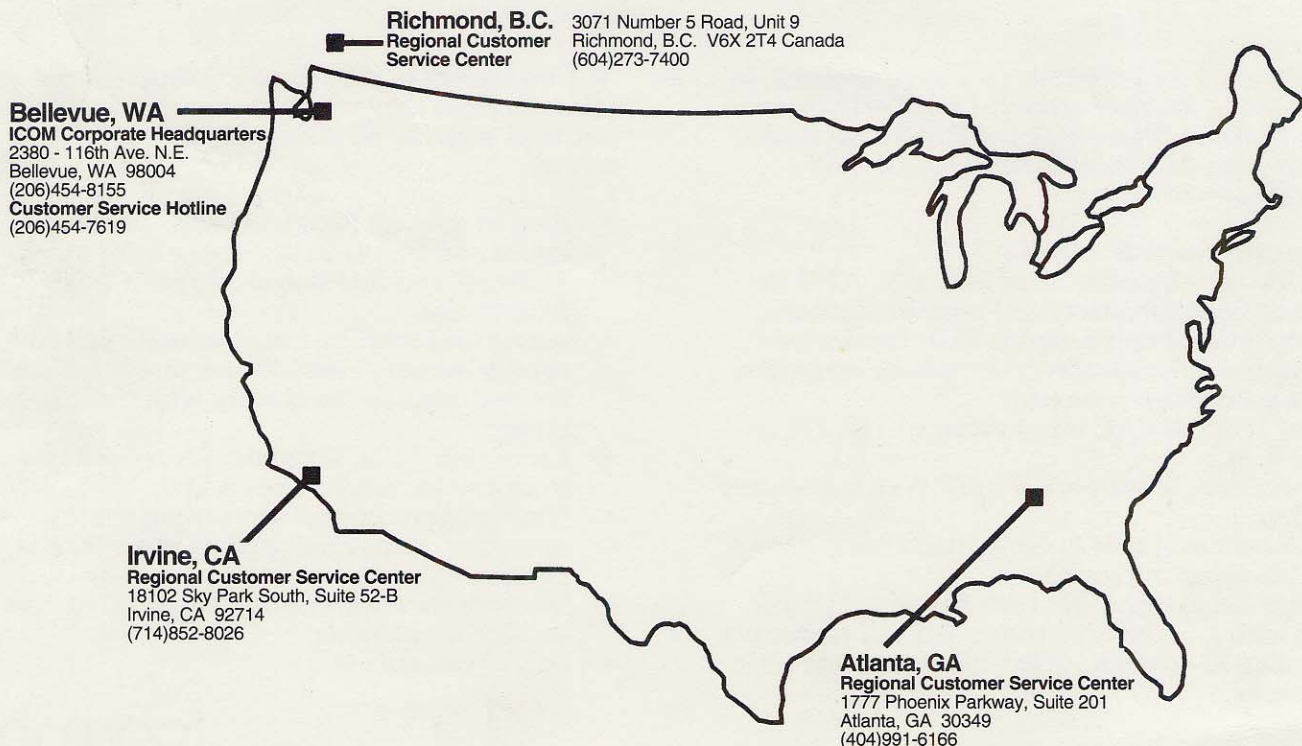
- Output power : 7 W (carrier power)
- Microphone impedance : 600 Ω

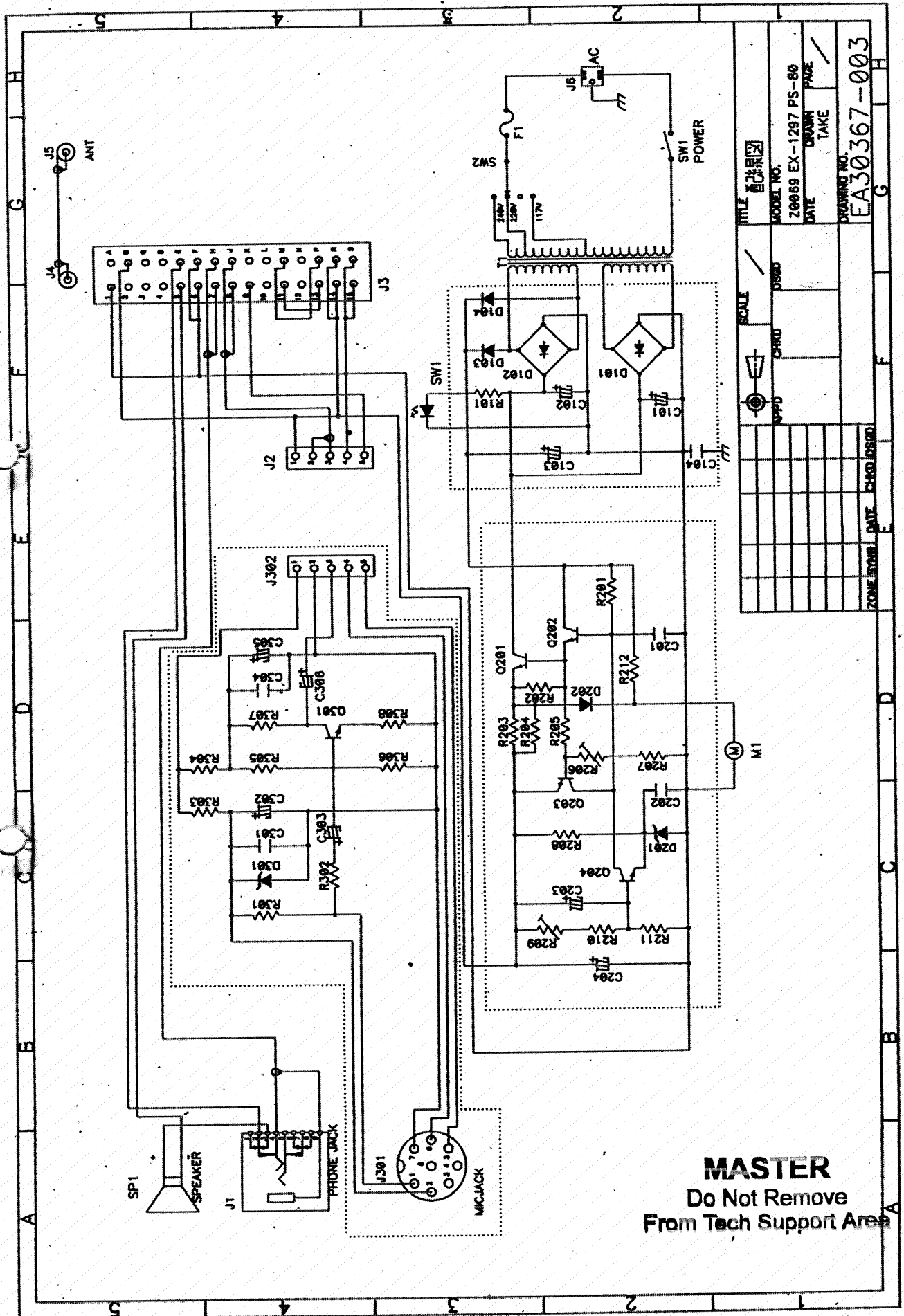
RECEIVER

- Receive system : Double-conversion superheterodyne
- Intermediate frequencies : 1st 32.455 MHz 2nd 455 kHz
- Sensitivity : 2 μV for 6 dB S/N
(with 1 kHz, 30% modulation)
- Spurious rejection : -80 dB
- Audio output power : 5 W with a 4 Ω load
100 mW with a 500 Ω load

See the Icom PS-80 Base Station Power Supply and the IC-A200 VHF COMM Transceiver at your local Authorized Icom Avionics Dealer.

ICOM Service Centers





TITLE	SCALE	DATE	DRWN	CHKD	ISSD
MODEL NO.	20069 EX-1297 PS-80	DATE	TAKE		
DRAWING NO.	EA30367-003				
ZONE	STOR	DATE	CHKD	ISSD	

MASTER
Do Not Remove
From Tech Support Area

SERVICE INFORMATION

Infor #. : 479
Mod # :
Model. : PS-80
Date. : 1992-12-18
Subject. : Circuit diagram.

PS-80 PARTS LIST

REF.#	PARTS
D101	DIODE D3SBA40
D102	DIODE D3SBA40
D103	DIODE D1NL60
R101	RESISTOR RD25C-10 2.2K J
C101	CAPACITOR 35MV4700HC
C102	CAPACITOR 35MV4700HC
C103	CAPACITOR 35MV2200HW
C104	CAPACITOR DD106F103Z50
Q201	TRANSISTOR 2SD847
Q202	TRANSISTOR 2SC4558
Q203	TRANSISTOR 2SC3622L
Q204	TRANSISTOR 2SC3622L
D201	DIODE RD6.2EB3
D202	DIODE D1NL60
R201	RESISTOR RD55C-10 4.7K J
R202	RESISTOR RD25S 470 J
R203	RESISTOR RWL3 0.2 J
R204	RESISTOR RWL3 0.2
R205	RESISTOR RD25C-10 4.7K K
R206	RESISTOR RV8HSN 10K
R207	RESISTOR RD25C-10 27K J
R208	RESISTOR RD25C-10 1K J
R209	RESISTOR RV8HSN 10K
R210	RESISTOR RD20C-15 4.7K J
R211	RESISTOR RD25C-10 10K J
R212	RESISTOR RSF(S)1R 220 J
C201	CAPACITOR DD106F103Z50
C202	CAPACITOR DD106F103Z50
C203	CAPACITOR 25MV10HW
C204	CAPACITOR 25MV220HW

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REF. #		PARTS
Q301	TRANSISTOR	2SC1815BL
D301	DIODE	RD8.4EB3
R301	RESISTOR	RD20C-15 1.5K J
R302	RESISTOR	RD20C-15 560 J
R303	RESISTOR	RD20C-15 220 J
R304	RESISTOR	RD20C-15 100 J
R305	RESISTOR	RD20C-15 100K J
R306	RESISTOR	RD20C-15 10K J
R307	RESISTOR	RD20C-15 3.3K J
R308	RESISTOR	RD20C-15 150 J
C301	CAPACITOR	DD106F103Z50
C302	CAPACITOR	16MV47UM
C303	CAPACITOR	50MV1UM
C304	CAPACITOR	DD106F103Z50
C305	CAPACITOR	16MV47UM
C306	CAPACITOR	50MV1WS
J301	MIC JACK	NS1508
J302	CONNECTOR	S5B-EH
T1	TRANSFORMER	4HX50
SP1	SPEAKER	C080K17110810
J1	PHONE JACK	HLJ-0235-01-010
J2	CONNECTOR	EHR-5
J5	COAXIAL CONNECTOR	MRDS-2504-E
J6	AC JACK	AC-P01CR02
SW1	SWITCH	SC-WL01N-01BB
SW2	SWITCH	J-R1025#01
FH1	FUSE HOLDER	F-220-01-A2
TH3	MOTOR	ASF84371