

OUTCOM COMMUNICATIVE
ELECTRONICS
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INSTRUCTION SHEET
For
OPA — 76 & OPA — 101 WIDEBAND AMPLIFIERS

Both units will operate from any 12 volt negative-grounded or positive grounded battery source. When vehicles have their engines running, the charging system increases the voltage to approximately 13.6VDC that is the operating voltage of these units.

Use number 12 wire or larger (#10, #8, etc.) to connect the battery to the amplifier. In all installations connect the positive (+) terminal of the battery to the fuse line of the amplifier. Connect the negative (—) terminal of the battery to the plain black wire of the amplifier. Next, use a 36" coax cable jumper and connect the transceiver to the XMTR connector. Finally, connect the antenna to the ANT connector. Press either AM or SSB for the mode of transmission you are using — no damage will result if both buttons are depressed or if wrong button is used. A minimum of two (2) inches of air space below the bottom and both sides is recommended to allow for proper air flow.; keep this in mind if unit gets hot in your operation.

SELECTABLE POWER: Levels for AM mode can be made by combinations of AM and SSB buttons.

There are four (4) power levels that can be selected in AM operation:

- 1) Lowest Power Output — press both AM and SSB buttons.
Approx. power: OPA-76 25 watts, OPA-101 25 watts
- 2) Next Level: press SSB button only.
Approx. power: OPA-76 40 watts, OPA-101 50 watts
- 3) Higher Level: press AM button only.
Approx. power: OPA-76 50 watts, OPA-101 75 watts.
- 4) Highest Power: leave both AM and SSB buttons out.
Approx. power: OPA-76 65 to 85 watts, OPA-101 110 to 125 watts.

Selectable Power is ONLY for AM operation.

Do not attempt to change power levels while operating your transceiver in SSB mode. Just press SSB button for SSB operation.

OUTPUT METER: With Power button on and transmitting — the meter will light and indicate approximately mid-scale in normal operation, but if antenna in use has an open or no antenna is connected — the meter will read higher than usual. If antenna in use has a direct short — the meter will read lower than normal. These are coarse indications and a SWR meter should be used to check any suspected problem with the antenna. For accurate SWR reading, use a UHF double male connector between the output of amplifier and input of SWR meter.

BASE USE: Both models will operate on DC power supplies if 14 amps. at 13.6VDC is available — or a car battery with a trickle charger attached will work with approximately 70% of capability. (DO NOT ATTEMPT TO USE A BATTERY CHARGER BY ITSELF, SINCE IT MAY HAVE HIGH VOLTAGE AND DESTROY THE OUTPUT TRANSISTORS).

DETAILED SPECIFICATIONS

TEST CONDITIONS:

- 1) 13.6VDC is supplied and maintained under load.
- 2) 50 ohms resistive load is used in checking input and output power ratings.
- 3) All powers are rated in RMS unless otherwise noted.

INPUT	OPA-76	OUTPUT
3.5		65 to 85
5.0		80 to 100
15PEP		150PEP
INPUT	OPA-101	OUTPUT
3.5		110 to 125
5.0		130 to 150
15PEP		250PEP

WARRANTY: One year parts and labor except ninety (90) days on RF power transistors. Warranty is not valid if unit has been tampered with, misused or damaged.