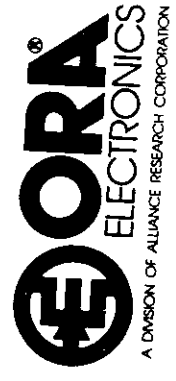


Exhibit E..... User's Manual

USER'S GUIDE **for the** **Booster** **Amplifier**

MODEL: ID2000



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The **Booster Amplifier** contains proprietary software that is protected under the copyright laws of the United States of America and other countries.

WARNING: ORA Electronics does not recommend the use of a cellular telephone while operating a motor vehicle.

Patents Pending
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Chatsworth, CA

1. PACKAGE CHECKLIST

The **Booster Amplifier** contains the following components:

- 1 Booster Amplifier
- 1 3.5M transmission cable
- 1 1.5M transmission cable
- 1 DC 12V POWER CORD.

2. ABOUT THE BOOSTER AMPLIFIER

Thank you for purchasing the **Booster Amplifier** from ORA Electronics, a leader in cellular accessories and enhancement products.

The **Booster Amplifier** markedly improves the signal when using your portable cellular phone in your vehicle, effectively turning your 0.6-watt portable cellular phone into a full-powered, cellular car phone. This product boosts the power of both the transmitting and receiving signals of a cellular call, providing longer range and better cellular system access.

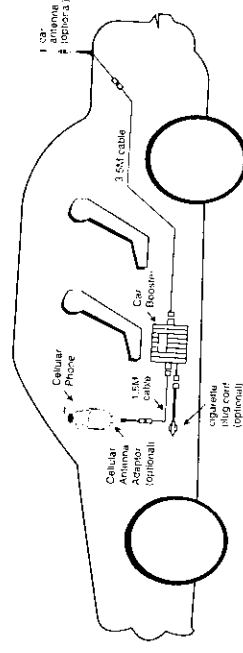
When using your portable cellular phone in your vehicle, you simply connect the provided cable to the antenna output on your portable cellular phone. The signal is sent through the booster, then transmitted to the nearest cellsite through your external antenna.

Note: This product generates and uses radio frequency energy. Improper installation and use not in strict accordance with the manufacturer's instructions may cause interference in your cellular reception. There is no guarantee given against interference in any particular installation. If necessary, you should contact ORA Electronics' Technical Support Group for assistance.

3. INSTALLING THE BOOSTER AMPLIFIER

The **Booster Amplifier** should be installed in the most convenient location. Refer to Diagrams 1 and 2.

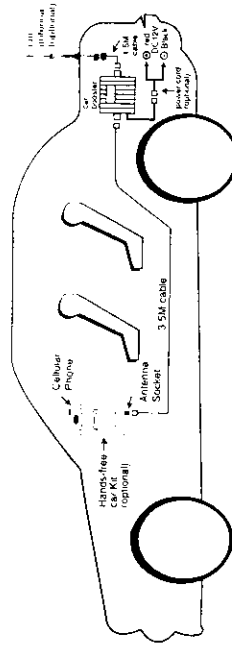
DIAGRAM 1:
Mounting Under The Seat



CAUTION: The car antenna should be placed at a distance of 30cm (12 in.) away from driver or passengers.

3. INSTALLING THE BOOSTER AMPLIFIER (cont.)

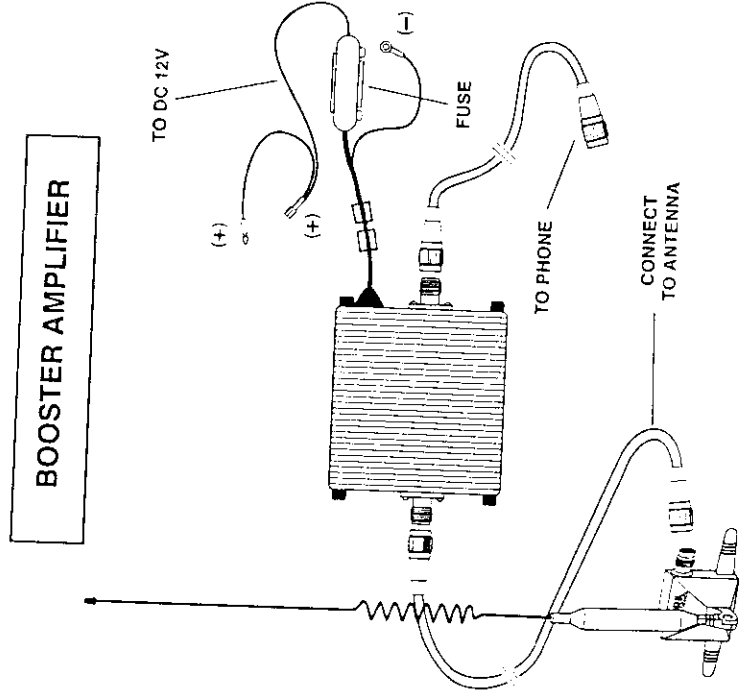
DIAGRAM 2:
Mounting Under The Trunk



CAUTION: The car antenna should be placed at a distance of 30cm (12 in.) away from driver or passengers.

3. INSTALLING THE BOOSTER AMPLIFIER (cont.)

Attach the outside antenna cable to the **Booster Amplifier** connector marked "OUTPUT." Connect the cable from the phone into the **Booster Amplifier** at the connector marked "INPUT." Next, connect the power cord of the **Booster Amplifier** marked "DC 12V" to a switched power source.



4. TROUBLESHOOTING

In the event of communications difficulty, check the following before contacting ORA Electronics Technical Support:

- Is the LED indicator lit, showing that the power supply is connected? If not, check the polarization of the power connection and the fuse.
- Is the signal strength adequate for the phone to make a call? Depending on the geographical area you are in, you may not be able to make a call.

CAUTION

Damage will occur to this device if the maximum rated input power from the cellular phone exceeds 2.0 watts. It is the user's responsibility to refer to the cellular telephone's owners manual to determine maximum rated RF output power.

To prevent damage to this device when using a cellular telephone that exceeds 2.0 watts in power, an attenuator or lengthy coax cable must be used to connect the cellular telephone to this device.

FOR ATTENUATION YOU MUST USE ONE OF THE FOLLOWING:

1. ATTENUATOR of 5db
2. RG-58/U with FME connectors on both ends, must be 18' in minimum length.
3. RG-58A/U with FME connectors on both ends, must be 14' in minimum length.

LENGTH OF CABLE FOR ATTENUATION
ATTENUATION 1-WATT = 4.81db

RG-58/U WITH FME BOTH ENDS MUST BE 18' IN
MINIMUM LENGTH.

RG-58A/U WITH FME BOTH ENDS MUST BE 14' IN
MINIMUM LENGTH.

5. PRECAUTIONS AND CARE

- Do not remove fuse. Use only fuse rated at 3A.

USER'S GUIDE for the Booster Amplifier

MODEL: ID2000



Revised pages

Exhibit E User's Manual

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The Booster Amplifier contains the following components:

- 1 Booster Amplifier
- 1 3.5M transmission cable
- 1 1.5M transmission cable
- 1 DC 12V POWER CORD.

CUTION: The Booster Amplifier can work with an iDEN phone only. Other wireless phones including APMS cellular phone will not be worked with the Booster Amplifier.

2. ABOUT THE BOOSTER AMPLIFIER

Thank you for purchasing the Booster Amplifier from ORA Electronics, a leader in cellular accessories and enhancement products.

The **Booster Amplifier** markedly improves the signal when using your portable IDEN phone in your vehicle, effectively turning your 0.6-watt portable IDEN phone into a full-powered, IDEN car phone. This product boosts the power of both the transmitting and receiving signals of a IDEN phone, providing longer range and better IDEN system access.

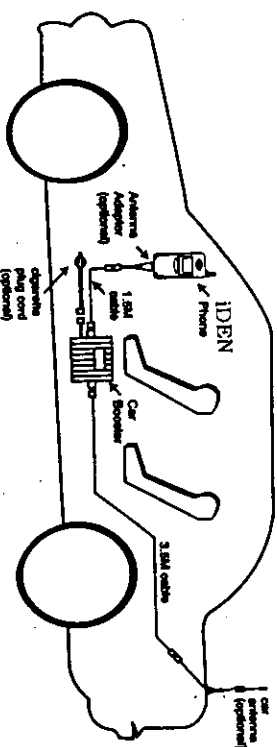
When using your portable IDEN phone in your vehicle, you simply connect the provided cable to the antenna output on your portable IDEN phone. The signal is sent through the booster, then transmitted to the base station through your external antenna.

Note: This product generates and uses radio frequency energy. Improper installation and use not in strict accordance with the manufacturer's instructions may cause interference in your cellular reception. There is no guarantee given against interference in any particular installation. If necessary, you should contact ORA Electronics' Technical Support Group for assistance.

3. INSTALLING THE BOOSTER AMPLIFIER

The **Booster Amplifier** should be installed in the most convenient location. Refer to Diagrams 1 and 2.

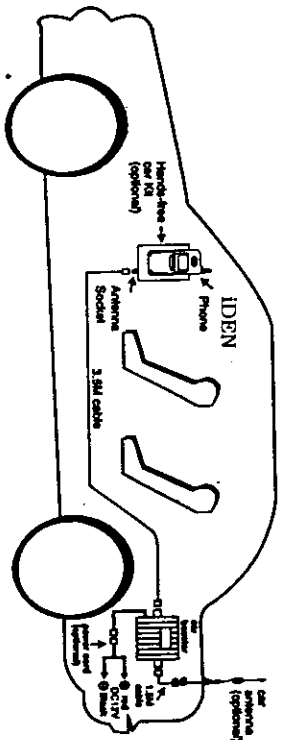
DIAGRAM 1:
Mounting Under The Seat



WARNING: The Car Antenna should be placed at a minimum distance of 30cm (12 in.) away from driver, passengers or bystanders.

3. INSTALLING THE BOOSTER AMPLIFIER (cont.)

DIAGRAM 2:
Mounting Under The Trunk

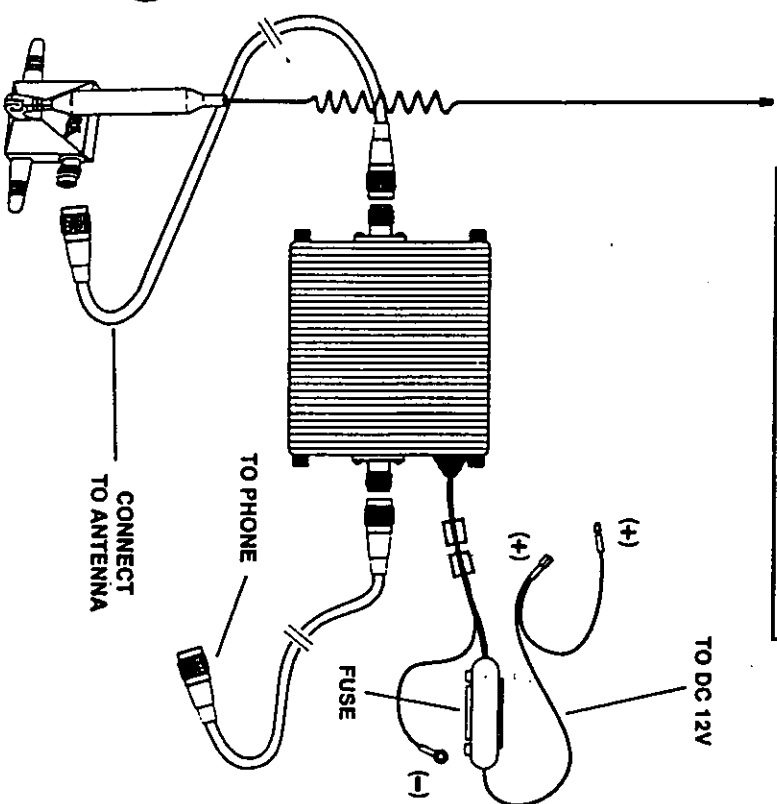


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3. INSTALLING THE BOOSTER AMPLIFIER (cont.)

Attach the outside antenna cable to the Booster Amplifier connector marked "OUTPUT". Connect the cable from the phone into the Booster Amplifier at the connector marked "INPUT". Next, connect the power cord of the Booster Amplifier marked "DC 12V" to a switched power source.

BOOSTER AMPLIFIER



4. TROUBLESHOOTING

In the event of communications difficulty, check the following before contacting ORA Electronics Technical Support:

- Is the LED indicator lit, showing that the power supply is connected? If not, check the polarization of the power connection and the fuse.
- Is the signal strength adequate for the phone to make a call? Depending on the geographical area you are in, you may not be able to make a call.

5. PRECAUTIONS AND CARE

- Do not remove fuse. Use only fuse rated at 3A.

CAUTION

Damage will occur to this device if the maximum rated input power from the iDEN phone exceeds 2.0 watts. It is the user's responsibility to refer to the cellular telephone's owners manual to determine maximum rated RF output power.

To prevent damage to this device when using a iDEN telephone that exceeds 2.0 watts in power, an attenuator or lengthy coax cable must be used to connect the iDEN telephone to this device.

FOR ATTENUATION YOU MUST USE ONE OF THE FOLLOWING:

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Booster Amplifier

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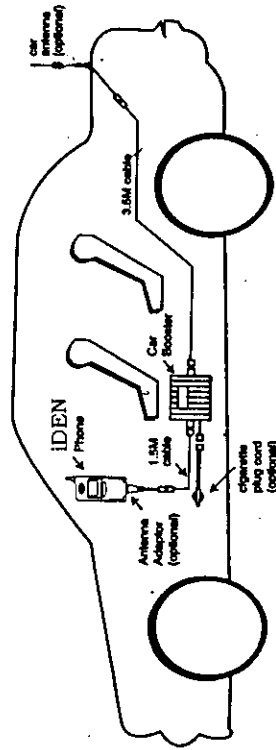
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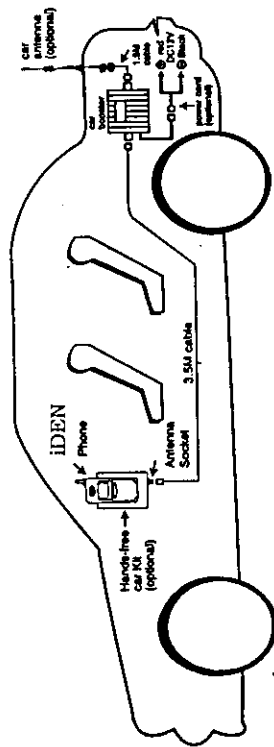
DIAGRAM 1:
Mounting Under The Seat



WARNING: The Car Antenna should be placed at a minimum distance of 30cm (12 in.) away from driver, passengers or bystanders.

3. INSTALLING THE BOOSTER AMPLIFIER (cont.)

DIAGRAM 2:
Mounting Under The Trunk

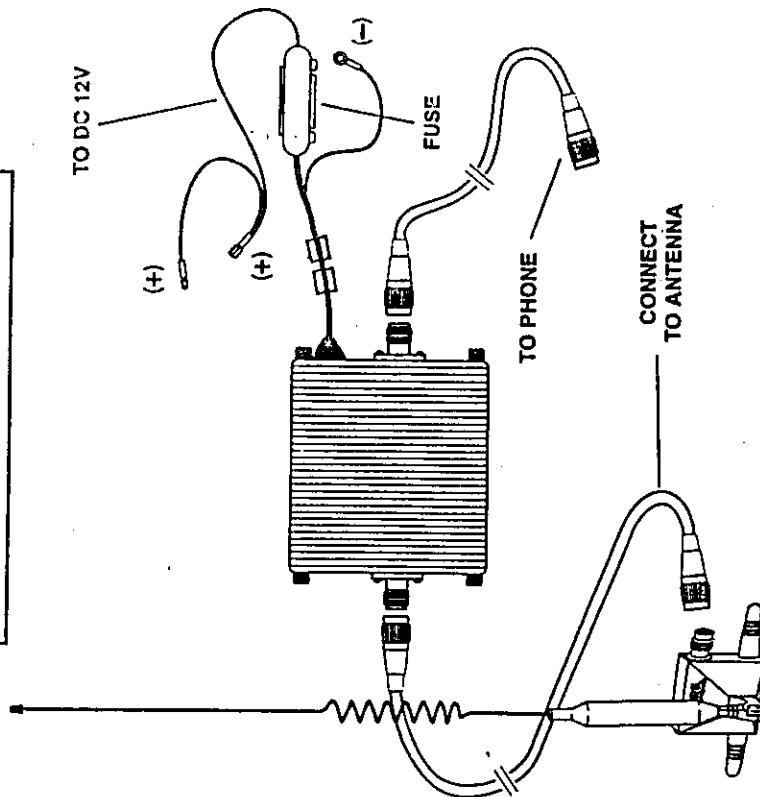


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BOOSTER AMPLIFIER



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LENGTH OF CABLE FOR ATTENUATION

ATTENUATION 1-WATT=4.8ldb

RG-58/U WITH FME BOTH ENDS MUST BE 18' IN MINIMUM LENGTH.

RG-58A/U WITH FME BOTH ENDS MUST BE 14' IN MINIMUM LENGTH.

5. PRECAUTIONS AND CARE

- Do not remove fuse. Use only fuse rated at 3A.

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LENGTH OF CABLE FOR ATTENUATION

ATTENUATION 1-WATT = 4.8db

RG-58/U WITH FME BOTH ENDS MUST BE 18' IN MINIMUM LENGTH.

RG-58A/U WITH FME BOTH ENDS MUST BE 14' IN MINIMUM LENGTH.

5. PRECAUTIONS AND CARE

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