

KENWOOD

KNA-V10

Voice Interactive Guidance System



INSTALLATION INSTRUCTIONS

General Precautions

The navigation system is only compatible with the Kenwood KDC-8003 CD Receiver. Do not connect it with other Kenwood models, or with other CD players or changers that are incompatible with the KNA-V10.

Do not open the KNA-V10 navigation module. There are no user serviceable parts inside. If you drop anything into the unit, consult your nearest Kenwood dealer or an authorized Kenwood service center. Changes or modifications to this product will void the warranty.

This unit is designed for 12 V DC, negative ground systems. Make sure that your vehicle has this type of electrical system before connecting the power cable.

Be sure to connect the cables as labeled. Incorrect connections may cause the navigator module or the other system components to malfunction, or may damage the vehicle's electrical system.

When installation and connections are completed, check the following:

- 1) Connections are proper.
- 2) Normal operation of the brake lights, horn, etc.
- 3) Operation of the audio unit is proper with ignition ON.

Warnings on Installation and Connections

Before Installation

Disconnect the negative (-) terminal of the vehicle battery prior to installation in order to prevent a short circuit and possible damage to the vehicle's electrical system.

Decide upon the installation place and orientation. Give consideration to safety and placement of wire and connector location prior to deciding on the location. The trunk, the passenger compartment, the glove box, under the dash, or the center console can accommodate the small dimensions of the navigator.

Avoid the following places:

- A place which hampers driving.
- A place where the safety of the passengers is compromised during an emergency brake situation.
- A place which is exposed to rain or which comes into contact with water.
- A place which is exposed to direct sunlight, such as the rear deck or front dashboard, hot air from the heating system, or audio components that get hot, such as amplifiers.
- A place near the fuel tank where the mounting screws may damage the tank.

The KNA-V10 should be mounted to a stable surface. If no stable surface is available, you must build a mounting board for the unit. Do not allow the navigation unit to dangle from its wires.

Wire Connections

While placing the wires, take the following precautions:

- Avoid places that heat up such as the engine, the exhaust pipe, and heater vents.
- Keep the wires separate from the car's own coiled and connected wires.
- Take care not to place the wires across a burr edge of a metal sheet.
- Avoid sharp bends in all wires, especially the connection cable and microphone wire.

Important

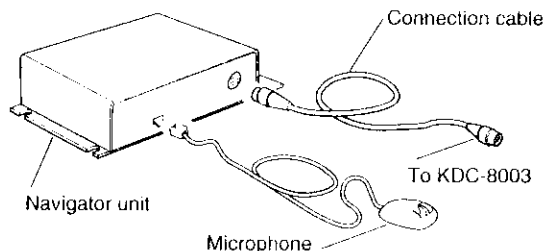
Metro Area Activation

The map discs included with this product will not function until a pass code is entered into the navigator. Follow these steps to obtain a pass code:

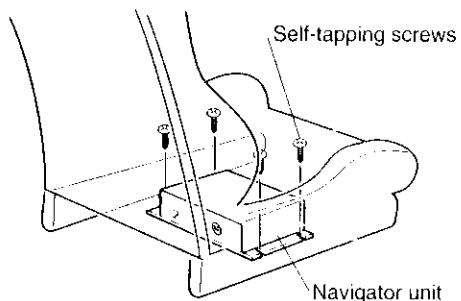
1. Call the 1-800 number printed on the front of the disc box.
2. Have a credit card ready to pay for the metro area activation.
3. Have the navigator serial number, printed on the bottom of the navigator module or on the back of the disc box package, ready for identification.
4. An 11-digit pass code will be given to say into the navigator.
5. Insert the map disc, answer the navigator's questions, and enter the pass code.

There is a per metro charge for each area activated: a metro area covers a city region such as greater Los Angeles or greater Detroit. The section in the User's Manual, "Activating Your Metro Areas," contains more detailed information on how to enter the pass code.

- 1** Connect the microphone and connection cable to the navigator unit.



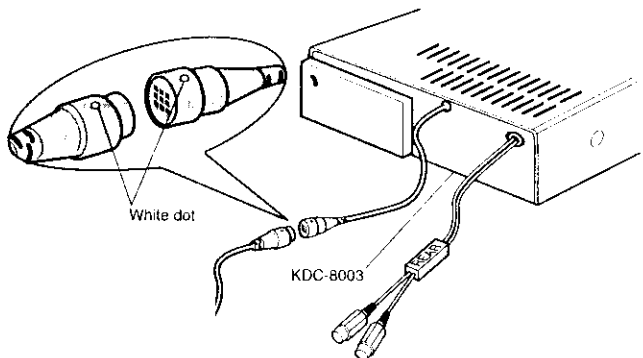
- 2** Install the navigator unit with self tapping screws (2 required on each side) under the seat (passenger seat recommended).



WARNING!

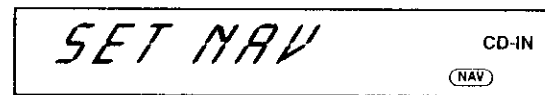
Avoid damage to brake fluid tube and electric cables when installing the navigator unit on the floor.

- 3** Match at the white dot and connect the connection cable to the KDC-8003 CD Receiver.



- 4** Install the microphone as shown on the Microphone Placement diagram.

1. Turn the ignition and power to the head unit on.
2. "NAV" should appear in the lower right hand corner of the display.
3. Insert a navigator disc with the label side facing up into the KDC-8003 head unit.
4. "SET NAV" should appear on the display. The navigator should beep twice and then ask, "Do you want to navigate?"
5. Answer "No" to the question "Do you want to navigate?"



If the system is not working properly, check the following:

Make sure the cables are connected properly. Refer to the Installation and Connections section of this manual.

Speak in a level, relaxed tone of voice - do not shout. Also, try enunciating words to improve voice recognition.

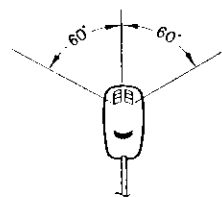
Make sure others are not talking in or around the vehicle. Ambient speech will affect voice recognition.

Make sure a navigator disc is inserted label side up in the KDC-8003 head unit.

Make sure the microphone is plugged into the navigator and is not damaged. Also, make sure the microphone is positioned properly inside the car.

Microphone Placement

Choosing a position in the car's interior is critical to an adequately functioning navigator. The microphone reception is strongly dependent on its placement relative to the user's mouth. The following illustrate the cones of operation for the microphone.

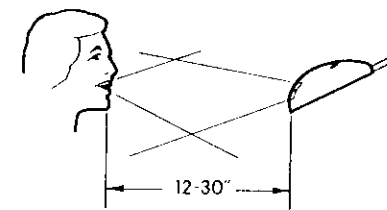


Top View



Side View

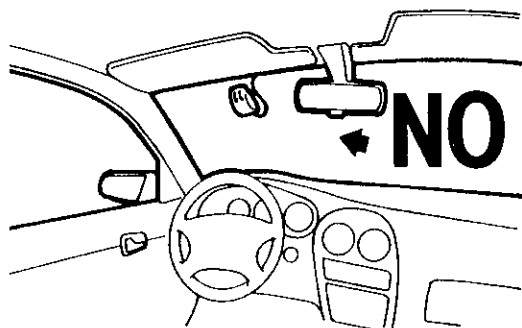
The user's mouth should be within the cones of operation of the microphone. The distance between the user's mouth and the microphone should be minimized when choosing the microphone location. The ideal distance between the user's mouth and the microphone is 12-30 inches.



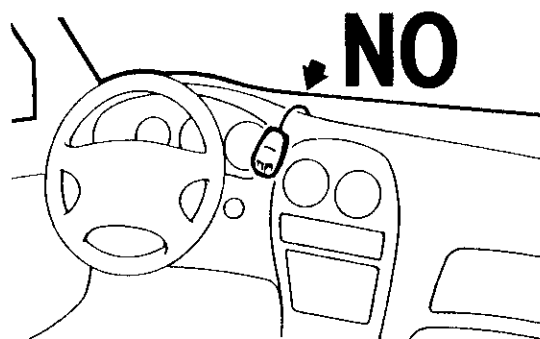
The user should speak in the direction of the microphone as much as possible. This does not mean that the user needs to look at the microphone: the user should keep his eyes on the road at all times during operation.

The following areas should be **AVOIDED**:

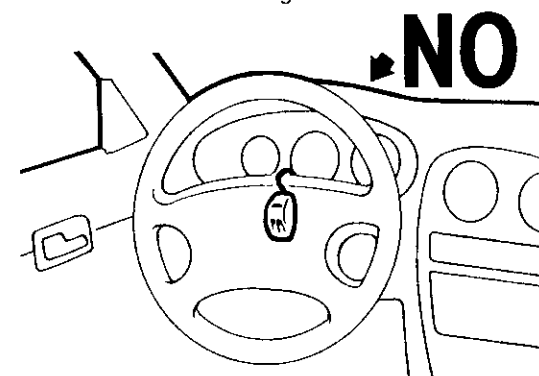
Windshield or Windows



Dash Board

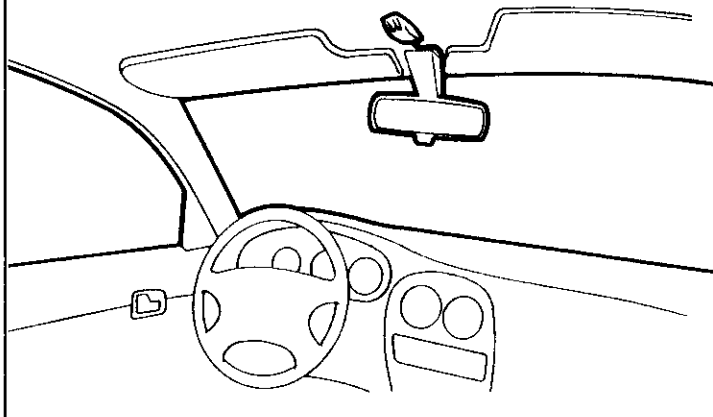


Steering Wheel

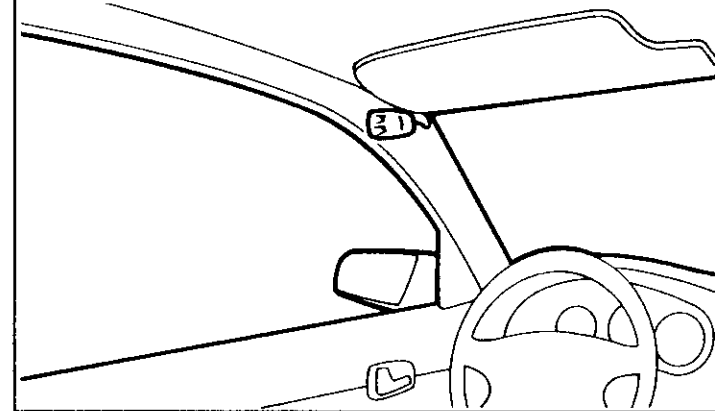


The following two areas are suggested:

On the headliner of the vehicle, between the driver and passenger, just above the rear view mirror. Point the intake downward, toward the driver (user). Mount the microphone with the hook and loop fastener included.



Left front A-pillar, which is located between the windshield and the door on the driver's side. Mount the microphone parallel to the A-pillar, with the intake pointing upward, toward the rear of the car. Point the intake at the driver (user) as much as possible. Mount the microphone with the hook and loop fastener included.



Note: If you have difficulties with the navigator recognizing your commands, you may want to try the following:

- Move the position of the microphone so that the intake is pointed in the opposite direction as it is described in one of the above suggestions. Depending on the roof shape of the vehicle, the front slope of the windshield, and the seating position of the user, the microphone may be more sensitive in the opposite direction.

SYSTEM START UP

Problems	Possible Cause	Solution
System does not power up.	KDC-8003 not properly installed.	Consult KDC-8003 manual and installation guide.
Navigator will not operate but CD player works. No beeps after inserting navigator disc.	CD player may require up to 10 seconds to initialize system.	Wait 10 seconds before using navigator.
	User did not say "NAVIGATOR" to wake up navigator.	Say "NAVIGATOR" distinctly and wait for the beep.
	No navigator disc in CD player.	Check/insert navigator disc in CD player.
	KNA-V10 module is not functioning properly.	Return to dealer to check KNA-V10 module.
	Volume set too low.	Adjust volume up. Navigator volume can be set independently from other audio functions.
Navigator disc inserted upside down.	Insert disc properly.	
"This navigation system is not operating properly. Please consult your hardware manual or dealer to correct the problem."	Connection cable not properly connected or cable damaged.	Check cable connections. Replace if damaged.
	KNA-V10 module is not functioning properly.	Return to dealer to check navigator module.
	Navigator disc is damaged.	Check disc for pits or scratches. Call 800-435-8627 for replacement if damaged.
KDC-8003 is not functioning properly.	Return to dealer to check KDC-8003.	
No speech from navigator (but heard beeps after inserting navigator disc).	Damaged navigator disc.	Check another navigator disc. If it asks, "Do you want to navigate?" the former disc is damaged. Call 800-435-8627 or return damaged disc for replacement.
Engine noise heard through audio system when navigator is speaking (but not when music discs are played).	Electromagnetic interference with the navigator cable.	Have an audio components installer check the routing of the navigator cable.
Bursts of static heard through audio system.	Navigator disc is damaged.	Replace damaged disc.
"Please provide the disc you were using" when navigator disc is already in the CD player.	Navigator disc is damaged.	Replace damaged disc.
	Disc not spinning in CD player.	Eject and re-insert disc.
	Files are still being loaded from the disc.	Wait 10 seconds for loading process to complete.
KDC-8003 is not functioning properly.	Return to dealer to check KDC-8003.	
Removing the faceplate causes the navigator to re-start.	Removing the faceplate will always re-start the audio system when a navigator is installed.	Wait 10 seconds after re-inserting the faceplate while the system initializes before using the navigator.

SPEAKING WITH THE NAVIGATOR

Problems	Possible Cause	Solution
No response to "NAVIGATOR" key word.	CD player may require up to 10 seconds to initialize system.	Wait 10 seconds before saying "NAVIGATOR."
	Navigator not recognizing utterance.	Pause slightly, then say clearly "NAVIGATOR" and wait for the beep.
	No navigator disc in CD player.	Check/insert navigator disc in CD player.
	People are speaking or there are other noises when the navigator is expecting an input and the navigator is misrecognizing.	The navigator can only listen to one user at a time. When the environment is quiet, say "NAVIGATOR" and wait for the beep.
	Poorly or improperly installed cables.	Check all cable connections to navigator and CD player and fuse to navigator power cable.
	Volume set too low.	Adjust volume up. Navigator volume can be set independently from other audio functions.
	Microphone cable improperly plugged into KNA-V10 module.	Verify that the microphone cable is properly plugged into the KNA-V10 module.
Navigator does not recognize responses to questions (there is no acknowledging beep).	Microphone assembly damaged.	Return to dealer for repair or replacement.
	People are speaking or there are other noises when navigator is expecting an input and navigator is misrecognizing.	The navigator can only listen to one user at a time. When the environment is quiet, say "NAVIGATOR" and wait for the beep.
	Volume set too low.	Adjust volume up. Navigator volume can be set independently from other audio functions.

PASS CODE ENTRY

Problems	Possible Cause	Solution
Pass Code entry of first four digits says that disc ID is incorrect.	Incorrect disc being used with Pass Code.	Use a disc where the disc ID (printed on the front of the disc) matches the first four digits of the Pass Code.
Pass Code entry is incorrect and navigator recites serial number of the navigator module.	Pass Code being used with wrong navigator module.	Check to see that the navigator's serial number matches the serial number used to get the Pass Code.
	Pass Code supplied is incorrect for this disc and this navigator module.	Call the 1-800 number on the disc box label for a new pass code.
Metro areas activated by Pass Code are not correct.	Pass Code supplied is incorrect for desired metro areas.	Call the 1-800 number on the disc box label for a new pass code.

CUSTOMER LICENSE AGREEMENT

IMPORTANT -- PLEASE READ THIS CUSTOMER LICENSE AGREEMENT CAREFULLY BEFORE USING ANY SOFTWARE OR DATA PROVIDED WITH THE AMERIGON AUDIONAV SYSTEM. THIS AGREEMENT CONTAINS WARRANTY AND OTHER INFORMATION.

This is a legal agreement between you, the end user customer, and Amerigon Incorporated ("Licensor"), the terms and conditions of which are set forth below. As used herein, the term "Licensed Software" shall mean any computer programs and/or databases provided to you with the Amerigon AudioNav System, including operating system software, application software and map and other databases. By using your copy of any of the licensed software, you agree to the terms and conditions of this License Agreement, so you should read the following terms and conditions carefully before you use your copy of the Licensed Software. You also must sign and return the accompanying warranty registration card in order to activate your warranty rights and to further acknowledge your acceptance of the License Agreement. If you do not agree with the terms and conditions of this License Agreement, do not use your copy of the Licensed Software, but rather return it, along with all other accompanying items, to your supplier for a refund.

1. **License Grant.** Effective upon your acquiring a decryption key to activate the Licensed Software in accordance with the instructions provided as part of the documentation for the Licensed Software, Licensor grants you a non-exclusive, nontransferable license to use your copy of the Licensed Software and related documentation for your personal use or, if the end user is a business, for use only in your business' internal operations, solely as a component part of your Amerigon AudioNav System. This license does not include the right to grant sublicenses.

2. **Further Limitations On Use.** You are permitted to use your copy of the Licensed Software only for your own internal purposes, and not for service bureau, time-sharing or other similar purposes. You shall not modify, decompile, disassemble, or reverse engineer any portion of the Licensed Software. You may make one copy of the Licensed Software for archival or backup purposes only. Any such copy of the Licensed Software must display the copyright notice and information relating to proprietary rights as they appear on your original copy of the Licensed Software, including, without limitation, any "limited rights" legend. You shall not copy the documentation provided with the Licensed Software.

3. **Ownership.** You acknowledge that the Licensed Software, related documentation and the copyrights and other proprietary rights therein are owned by Licensor, Audio Navigation Systems, Inc. ("ANSI"), Navigation Technologies Corporation ("NavTech") and/or one or more third parties, and that Licensor has or has obtained the right to grant you a license to use such components on the terms and conditions contained in this End User License Agreement. All rights not expressly granted in this End User License Agreement are expressly retained by and for Licensor and/or such third party owners.

4. **Government End-Users.** If the Licensed Software is being acquired by or on behalf of the United States government or any other entity seeking or applying rights similar to those customarily claimed by the United States government, the Licensed Software and related documentation are licensed with "limited rights." Utilization of the Licensed Software is subject to the restrictions specified in the "Rights in Technical Data and Computer Software" clause of DFARS 252 227-7013, or the equivalent clause for non defense agencies. Manufacturers are Amerigon, Inc., 404 East Huntington Drive, Monrovia, California 91016, USA and Navigation Technologies Corporation, 740 East Argus Avenue, Sunnyvale, California 94086-3833, USA.

5. **Indemnify.** You agree to indemnify, defend and hold Licensor, ANSI, NavTech and any third party owners of proprietary rights in the Licensed Software, including their respective licensors, assignees, subsidiaries, affiliated companies, and the respective officers, directors, employees, shareholders, agents and representatives of each of them, free and harmless from and against any liability, loss, injury, demand, cost, expense, or claim of any kind or character, including but not limited to attorney's fees, arising out of (a) any use of the Licensed Software, or (b) any breach of any warranties or representations made by you in this End-User License Agreement or of your obligations under this End User License Agreement.

6. **Limited Warranty.** Licensor warrants that, for a period of time of 12 months after your purchase of your copy of the Licensed Software, the Licensed Software other than the NavTech Database will conform substantially to the documentation supplied to you with the Licensed Software, and that the NavTech Database will conform substantially to NavTech's Criteria for Accuracy and Completeness existing as of the date you purchased your copy of the Licensed Software. Your sole remedy if the Licensed Software or NavTech Database does not perform in accordance with this limited warranty is that Licensor will use all reasonable efforts to repair or replace your nonconforming copy of the Licensed Software or NavTech Database or, in Licensor's discretion, Licensor will refund the license fees paid by or for you for your nonconforming copy of the Licensed Software or NavTech Database. Except as expressly provided in this section, neither Licensor, ANSI, NavTech nor any third party owner of proprietary rights in the Licensed Software warrants or makes any representations regarding the use or results of the use of the Licensed Software or related documentation in terms of its correctness, accuracy, reliability, or otherwise. Licensor, ANSI, NavTech and any third party owners of proprietary rights in the Licensed Software do not warrant that the Licensed Software is or will be error free. No oral or written information or advice provided by Licensor or any other person shall create a warranty or in any way increase the scope of the limited warranty described above.

7. **End-User Signature.** The limited warranty set forth in Section 6 shall become effective only upon Licensor's receipt of the attached warranty registration card which must be fully completed and signed by you. By signing and returning the warranty registration card to Licensor, you acknowledge that you have read and understand this End-User License Agreement and that you intend to be legally bound by all of the terms and conditions of this End-User license Agreement.

8. **Disclaimer of Warranty.** Except as expressly provided in the limited warranty set forth in Section 6, NEITHER LICENSOR, ANSI, NAVTECH NOR ANY THIRD PARTY OWNER OF PROPRIETARY RIGHTS IN THE LICENSED SOFTWARE MAKES ANY WARRANTIES OR REPRESENTATIONS, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO ANY ITEM OR SERVICE TO BE PROVIDED TO YOU. WITHOUT LIMITING THE FOREGOING, LICENSOR, ANSI AND NAVTECH EXPRESSLY DISCLAIM ANY WARRANTIES OF QUALITY, PERFORMANCE, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

9. **Limitation of Liability.** The fees charged for your copy of the Licensed Software do not include any consideration for assumption of the risk of consequential or incidental damages or unlimited direct damages which may arise in connection with your use of the Licensed Software. Accordingly, NEITHER LICENSOR, ANSI, NAVTECH NOR ANY THIRD PARTY OWNER OF PROPRIETARY RIGHTS IN THE LICENSED SOFTWARE SHALL BE RESPONSIBLE FOR ANY LOSS OF PROFIT OR INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF REVENUE, DATA, OR USE, INCURRED BY YOU OR ANY THIRD PARTY ARISING OUT OF YOUR USE OF THE LICENSED SOFTWARE, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE FOREGOING EXCLUSION MAY NOT APPLY TO YOU. The maximum aggregate liability to you of Licensor, ANSI, NavTech and any third party owner of proprietary rights in the Licensed Software with respect to all claims arising out of this End-User Agreement or your use of the Licensed Software shall be limited to the license fee paid by you for your copy of the Licensed Software, depreciated on a straight line basis over a period of three (3) years.

10. **Warnings.**

A. Data included in the Licensed Software reflect conditions as they existed at various points in time before end-user's purchase of Licensed Software. Accordingly, copies of the Licensed Software may contain inaccurate or incomplete data and information due to the nature and processing of such sources.

B. Data included in the Licensed Software are comprised of compilations of data and information from government and other sources which may contain errors and omissions. Accordingly, copies of the Licensed Software may contain inaccurate or incomplete data and information due to the nature and processing of such sources.

C. Copies of the Licensed Software do not include, analyze, process, consider or reflect any of the following categories of information, i.e., neighborhood quality or safety; population density; availability or proximity of law enforcement, emergency, rescue, medical, or other assistance; construction work, zones, or hazards; road and lane closures, legal restrictions (such as vehicular type, weight, load, height and speed restrictions); road slope or grade; bridge height, width, weight or other limits; road, traffic or traffic facilities safety or conditions; weather conditions, pavement characteristics or conditions; special events, traffic congestion, or travel time.

11. **Default and Termination.** This End-User License Agreement is terminable by Licensor or NavTech upon ten (10) days written notice to you for any material failure to comply with any provisions of this End-User License Agreement, provided, however, that Licensor or NavTech may terminate such Agreement upon forty-eight (48) hours written notice if you fail in any respect to comply with the requirements described in Sections 1, 2, or 3 above. Upon termination of this End-User License Agreement, the license granted under it shall cease and you shall immediately return your copies of the Licensed Software and related documentation to Licensor or NavTech.

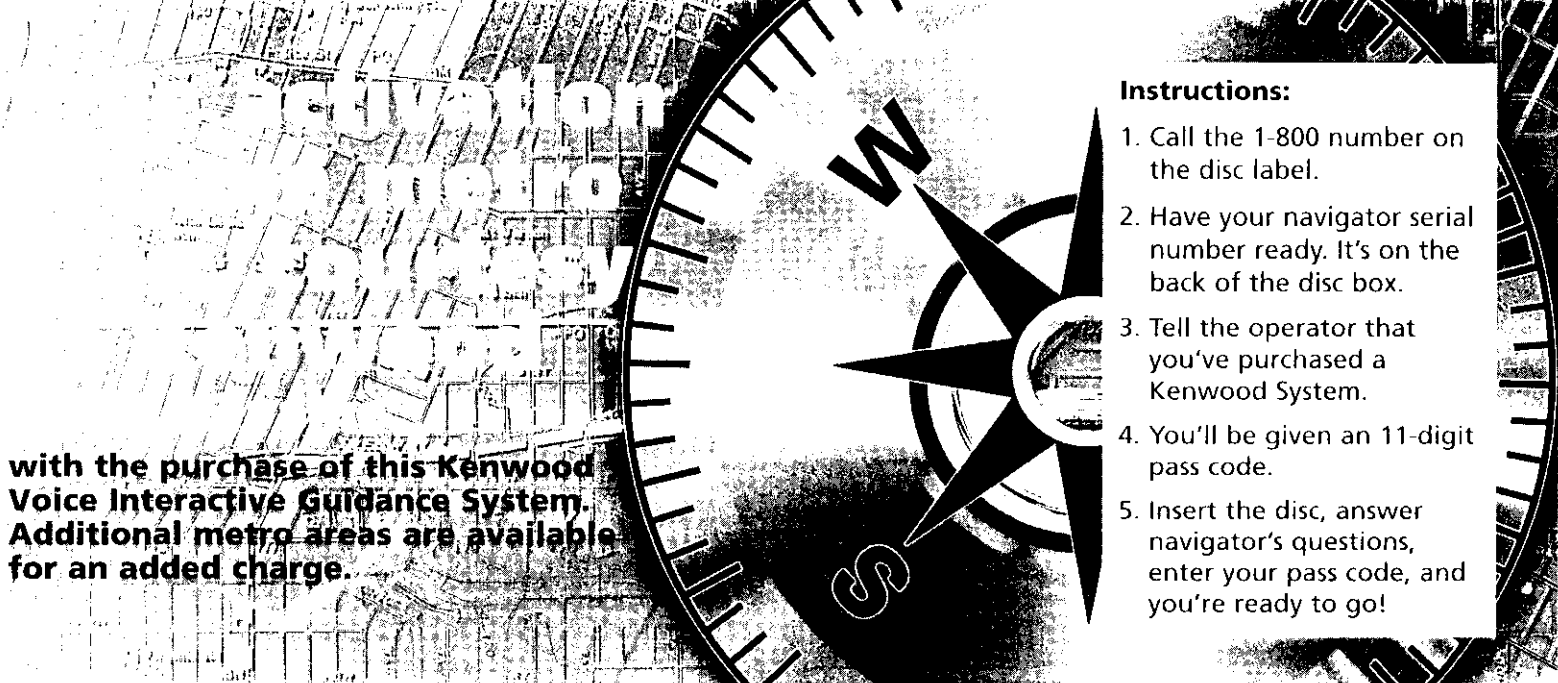
12. **Equitable Remedies.** You acknowledge that because of the unique nature of the Licensed Software and the proprietary rights of Licensor, ANSI, and NavTech therein, breach of this End-User License Agreement by you would irreparably harm Licensor, ANSI and NavTech, and monetary damages would be inadequate compensation. You agree that Licensor, ANSI and NavTech shall be entitled to preliminary and permanent injunctive relief to enforce the provisions of this End-User License Agreement.

13. **Transfer.** You agree that neither your copies of the Licensed Software nor your rights under this End-User License Agreement may be transferred to third parties, unless the transferee is bound by all of the provisions of this End-User License Agreement.

14. **Third Party Beneficiary.** NavTech and ANSI are hereby expressly named as a third party beneficiary of this End-User License Agreement. Accordingly, you agree that NavTech and ANSI are entitled to the same rights and protections under this End-User License Agreement as Licensor, and NavTech and ANSI are entitled to enforce this End-User License Agreement directly against you.

15. **Survival After Termination.** The provisions of this End User License Agreement contained in Section 5 (indemnity), Section 9 (Limitation of Liability), Section 11 (regarding Return of All Copies of the Licensed Software After Termination), and Section 14 (Third Party Beneficiary Status) shall survive termination of this End-User License Agreement.

16. **Governing Law.** This Agreement shall be governed by the laws of the State of Delaware insofar as it relates to the NavTech Database, and by the laws of the State of California insofar as it relates to any of the rest of the Licensed Software, without giving effect to the conflict of laws provisions of the laws of such states.



**with the purchase of this Kenwood
Voice Interactive Guidance System.
Additional metro areas are available
for an added charge.**

Instructions:

1. Call the 1-800 number on the disc label.
2. Have your navigator serial number ready. It's on the back of the disc box.
3. Tell the operator that you've purchased a Kenwood System.
4. You'll be given an 11-digit pass code.
5. Insert the disc, answer navigator's questions, enter your pass code, and you're ready to go!