

nEar 05

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-
- Professional Bi-amplified Reference Monitor •
-

User's Manual



EGO·SYS
www.egosys.net



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



AFIN D'EVITER UN CHOC ELECTRIQUE ET LES CONSEQUENCES GRAVES QUI POURRAIENT EN RESULTER, TENEZ PAS D'OUVRIR L'APPAREIL ET DE TOUCHER AUX COMPOSANTS INTERNES SANS LA PRESENCE D'UNE PERSONNE QUALIFIEE.



PARA REDUCIR EL RIESGO DE SACUDIDAS ELECTRICAS, NO DEBERA QUITARSE LA TAPA (NI PARTE POSTERIOR). CONSULTESE AL PERSONAL CAPACITADO PARA LAS REPARACIONES INTERNAS.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

ADVERTENCIA: PARA EVITAR EL RIESGO DE INCENDIO O SACUDIDA ELECTRICA, NO DEBERA EXPONERSE ESTE APARATO A LA LLUVIA O HUMEDAD.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARISED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCES ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SILES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

PRECAUCION: PARA EVITAR SACUDIDAS ELECTRICAS, NO DEBERA UTILIZARSE ESTA CLAVIJA POLARIZADA CON UN CORDON DE PROLONGACION, RECEPTACULO U OTRO TIPO DE SALIDA A MENOS QUE SE HAYAN INSERTASO COMPLETAMENTE LAS LENGÜETAS PARA EVITAR SU EXPOSICION.

NOTE: Some **EGO-SYS** products are equipped with dual or multi-voltage transformers (which is indicated on the back panel). If you wish to change the voltage, please bring your unit to an authorised **EGO-SYS** service technician for internal conversion.

ATTENTION: Quelques pièces **EGO-SYS** sont munies de transformateurs à double ou à multi-voltage (indiqué au panneau arrière). Si vous voulez changer le voltage, veuillez apporter votre appareil au fournisseur de **EGO-SYS** pour le transformer.

ZUR BEACHTUNG: Einige **EGO-SYS** Geräte sind mit Umschaltern für unterschiedliche Netzspannungen ausgerüstet (Ein Vermerk auf der Rückseite weist darauf hin).

Die Anpassung, wenn notwendig, muß von einem qualifizieren Techniker in einer **EGO-SYS** Servicestation vorgenommen werden.

NOTA: Ciertos componentes de **EGO-SYS** están dotados de transformadores de doble tensión o de varias tensiones (lo que se indica en el panel posterior). Si se desea cambiar la tensión, sírvanse llevar el aparato a un técnico autorizado por **EGO-SYS** para su conversión interna.

NOTE TO CATV systems installer: This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

NOTA PARA EL INSTALADOR DE ANTENAS DE TELEVISION COLECTIVAS: La presente advertencia se provee para llamar la atención del instalador al Artículo 820-22 de NEC (Código Eléctrico Nacional) donde se facilitan las directrices para la pertinente puesta a tierra y que especifica en particular que el conductor a tierra del cable debe conectarse al sistema de conexión a tierra del edificio, lo más proximo posible al punto de entrada del cable.



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION: The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

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Introduction

Thank you for choosing NEAR 05, neo-standard near field reference monitor speakers.

EGO SYS has been building excellent reputation for digital interfaces manufacturer. Now, after long research and development, NEAR 05 is born to change the concept of near field reference monitor.

NEAR 05 is designed and tested by several audio engineers to meet your needs in studio monitoring environment. It is focused on its functionality to deliver the pure original sound without any add on.

NEAR 05 is designed to overcome all the limitations of conventional near field reference monitors for digital audio environment. This system delivers wide range of frequency response by employing two extra-ordinary drivers and unique crossover technology developed by EGO SYS. It boasts much stable and balanced low-mid frequency response along with the defined MF and HF response as well. Both drivers are magnetic-shielded for DTMP users.

From professional users in commercial studios to home studio owners, NEAR 05 is the true solution for near field studio monitoring in its own class.

NEAR05 Features

1. WOOFER

Woofers are 5 1/4 inch in diameter with magnetically shielded mineral filled polypropylene cone with high temperature voice coil and damped rubber surround. It is designed to deliver balanced mid and low-frequency response. Polypropylene is used to react against the input signal accurately and to deliver even minimal input precisely minimizing distortion.

2. TWEETER

By employing specially developed 1" silk dome with magnetically shielded, it can deliver distortion-free original sound and offer extremely natural sound. It minimizes reaction time by using fabric silk for excellent delivery and also minimizes resonance by adapting EGO SYS's own Internal Damping Technology.

3. SUB-FREQUENCY PORT

The hole in the rear panel is called Sub-Frequency Port which discharges extreme low frequency under 30 Hz. NEAR 05 is designed to take advantage of the port to generate extreme low frequency.

4. ENCLOSURE

Enclosure acts as important role as the other components. NEAR 05's enclosure is designed to endure impacts from inside under extreme conditions. It employs high-density special MDF and unique interior reinforcement to provide more stable performance.

5. NETWORK & POWER AMPLIFIERS

Network & Power Amplifiers for NEAR 05 are specially designed for its own woofer and tweeter. Network distributes low, mid, and high frequency properly to units in order to reduce loss of sound and distortion achieving natural balance of the sound.

In order to generate ultra crispy and powerful sound quality, there are two separated power amplifiers inside NEAR 05 to drive Woofer and Tweeter drivers separately as a high end Bi-Amp structure. The power delivered to woofer driver at rated distortion is 40W and to Tweeter is 30W.

Installation

For optimal performance of NEAR 05, read below thoroughly and carefully before starting installation.

1. PRECAUTIONS

Handling

Do not grab the speaker driver units : NEAR 05 is packaged in box fitted tight, so your attention is required when taking speakers out of the box. To avoid the possible damage to the speaker units, hold both sides of the speaker to pull it out of the box. The speaker units should not be touched to avoid damage even after it is out of the box.

Recommend to use high quality balanced or unbalanced cable for input connection.

Turn off the power of NEAR 05 and turn Volume Control of NEAR 05 to minimum before connection.

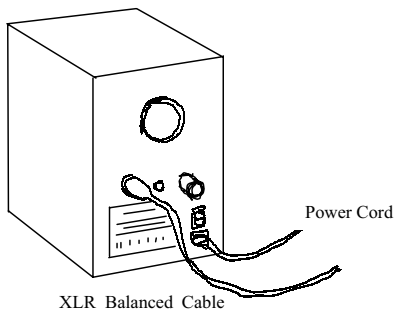
Connection

Connect XLR balanced or TRS balanced / unbalanced input of NEAR 05 to the corresponding pre-amp, computer or game console outputs.

2. XLR BALANCED CONNECTION

Assure that the power switch of NEAR 05 is turned off and Volume Control of NEAR 05 is turned to minimum. Connect male side of XLR balanced cable to the balanced input of NEAR 05.

Refer to the following diagram.

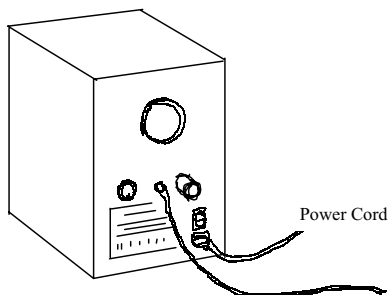


< XLR Balanced Connection >

3. TRS BALANCED/UNBALANCED CONNECTION

Assure that power switch of NEAR 05 is turned off and Volume Control of NEAR 05 is turned to minimum. Connect the male side of TRS balanced or unbalanced cable to the TRS input of NEAR 05.

Refer to the following diagram.



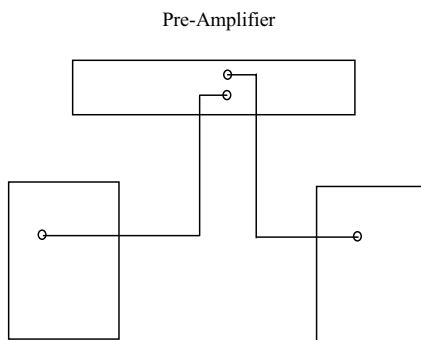
TRS Balanced Cable or Unbalanced Cable

< TRS Balanced or Unbalanced Connection >

4. CONNECTING TO THE CORRESPONDING PRE-AMPLIFIER, COMPUTER OR GAME CONSOLE OUTPUTS

Before connecting, make sure its power is turned off.

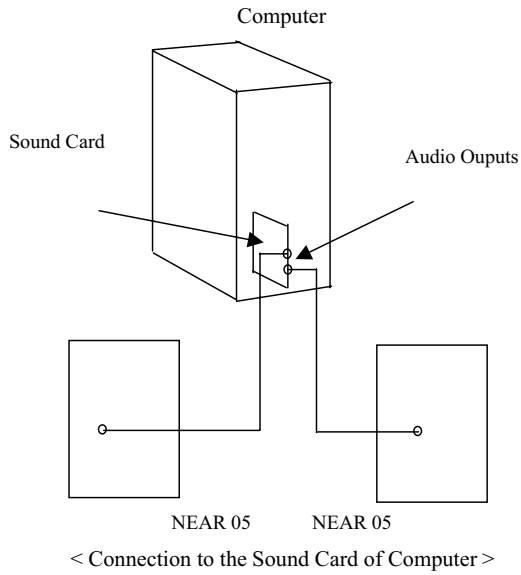
Plug the XLR balanced, TRS balanced or unbalanced cable to the corresponding output connectors of pre-amplifier, computer or game console.



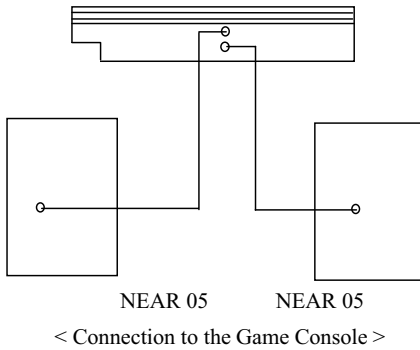
NEAR 05

NEAR 05

< Connection to the Pre-amplifier >



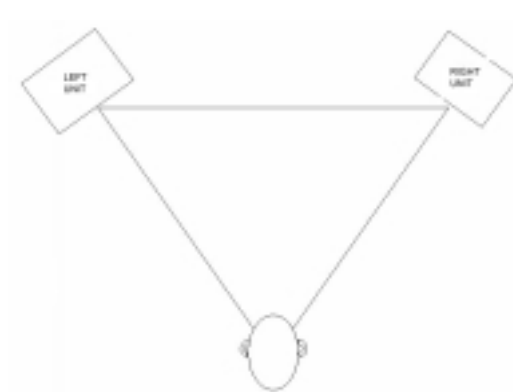
Game Console



Placing the NEAR 05

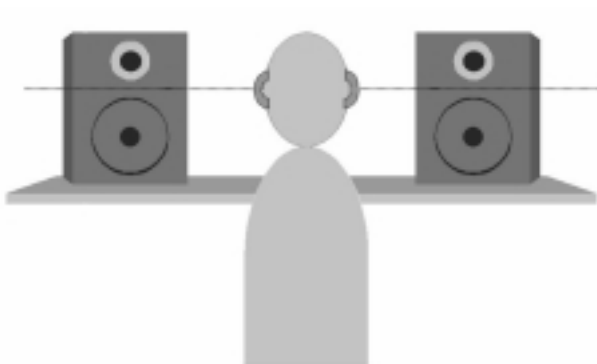
Placing the speakers is one of the most important procedures to monitor correct sound. To monitor with NEAR 05 at its maximum capability, appropriate listening environment and correct placement are required. Please, refer to the followings to place the NEAR 05 correctly.

- 1. BASICALLY, TWO UNITS AND THE LISTENER SHOULD ALIGN TO FORM A REGULAR TRIANGLE. REFER TO THE FOLLOWING DIAGRAM.**



<Positioning>

- 2. THE HEIGHT OF UNITS, MORE PRECISELY, THE TOP OF THE WOOFER, SHOULD COME UP TO WHERE YOUR EARS ARE IN NORMAL LISTENING ENVIRONMENT. REFER TO THE FOLLOWING DIAGRAM.**



<Height of the units>

3. PLACE THE NEAR 05 VERTICALLY. PLACING NEAR 05 HORIZONTALLY IS NOT RECOMMENDED.



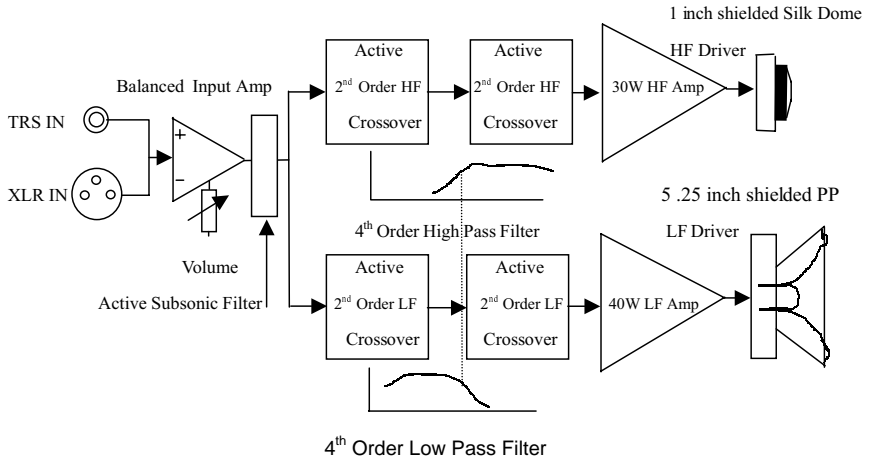
Remarks: DO NOT place any obstacles that may block the flow of air, which is medium of the sound, or create reflected sound, especially, the material of high reflection tendency including glass, mirror or metal. PLACE THOSE MATERIALS AWAY FROM THE PATH OF THE SOUND FROM NEAR 05.

Technical Specifications

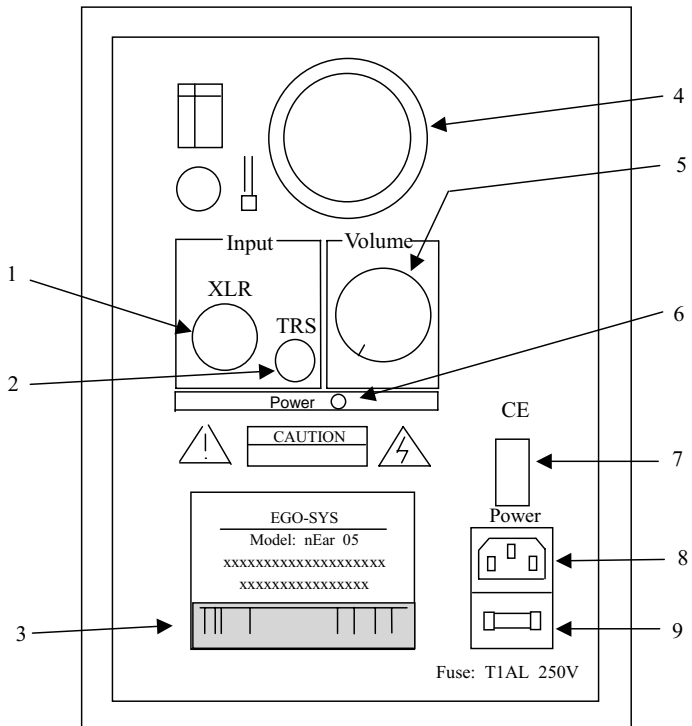
- Type** : 2-Way Bookshelf
- **LF Driver** : 5 1/4 inch magnetically shield mineral filled polypropylene curved cone with high temperature voice coil and damped rubber surround.
- HF Driver** : 1 inch magnetically shield natural Silk Dome.
- **Frequency Response** : 33Hz - 22kHz
- **Crossover Frequency** : 2.7kHz
- **LF Amplifier Power** : 40W
- HF Amplifier Power** : 30W
- S/N Ratio** : > 100dB below full output, 20kHz Bandwidth
- Input Connectors** : 1 x XLR Balanced Input Connector
1 x TRS Balanced/ Unbalanced Input Connector
- Polarity** : Positive signal at + input produce outward LF cone displacement
- **Input Impedance** : 20k ohms balanced, 10k ohms unbalanced
- **Input Sensitivity** : 200 mV input produces full output with Volume control at maximum.
- **Protection** : RF interference, output current limiting, over temperature, turn-on/off transient, subsonic filter, external mains fuse.
- Indicator** : Power ON/OFF indicator on rear panel
- Power Requirements**: Factory programmed for either 115V ~50/60Hz,
230V~50/60Hz or 100V~50/60Hz;
Power via detachable 3 circuit line cord.
- Cabinet**: vinyl laminated MDF
- Dimension** : 250 mm(H) x 166 mm(W) x 200 mm(D)
- Weight** : 5.0 kg/unit (without packing)

Remarks: Above specifications are subject to change without notice.

Block Diagram



Rear Panel



1. **XLR INPUT** This jack accept XLR input connections, wire either balanced or unbalanced. The signal of **XLR INPUT** is summed together with **TRS INPUT** through a balanced input amplifier. So, either may be used as an input or mixed together. Input specifications apply to both inputs. The INPUT CONNECTIONS wiring chart of XLR connector is as following:

<u>INPUT SIGNAL</u>	<u>XLR CONNECTIONS</u>
+	PIN 2
-	PIN 3
Shield	PIN 1

2. **TRS INPUT** This jack accepts a TRS connector, wire either balanced or unbalanced. For balanced wiring, a 3-conductor TRS plug is necessary. The INPUT CONNECTIONS wiring chart of TRS connector is as following:

<u>INPUT SIGNAL</u>	<u>TRS CONNECTIONS</u>
+	TIP
-	RING
Shield	Sleeve

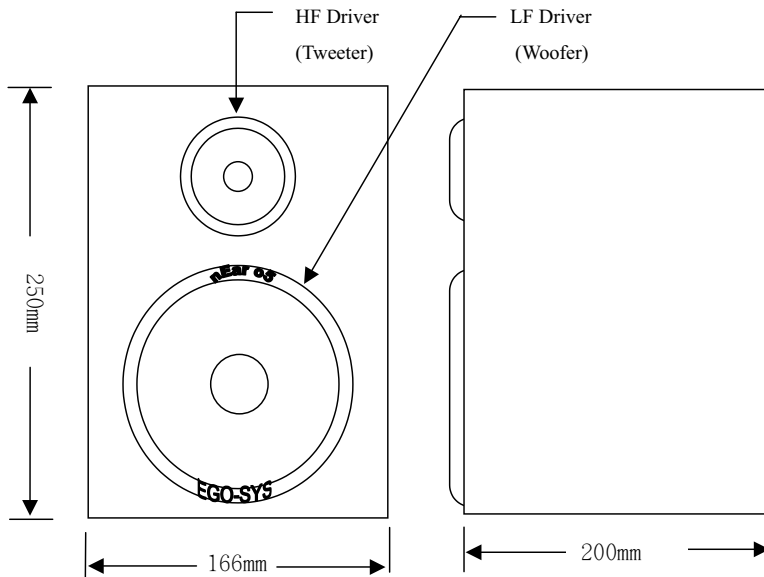
Unbalanced wiring works with either a 2 or 3-conductor TRS connector. A 2-conductor TRS plug automatically ground the minus signal input, whereas a 3-conductor TRS plug wired unbalanced provides the option of leaving the minus open or grounded. We recommend that you grounded the unused input.

The **TRS INPUT** is summed together with **XLR INPUT** through a balanced input amplifier. So, either may be used as an input or mixed together. Input specifications apply to both inputs.

3. **BAR CODE LABEL** This label contains Product Bar Code and Serial number Bar code.
4. **VENT PORT** NEAR 05 is a Vented Box speaker system. So, there is a Vent Port on rear panel.
5. **VOLUME Control** Use the Volume Control to set the output sound pressure from NEAR 05 to proper level required.
6. **POWER LED** When power of NEAR 05 is on, the LED will be lighted up. When power of NEAR 05 is off, the LED will be turned off.

7. **POWER SWITCH** When you push the power switch to 'I', the NEAR 05 will be turned on.
When you push the power switch to 'O', the NEAR 05 will be turned off.
8. **POWER RECEPTACLE** For plugging in detachable 3-circuit line cord.
9. **EXT. FUSE HOLDER** For external main fuse.

Front Panel & Side View



SAFETY INSTRUCTION

1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the appliance is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the appliance and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. WATER AND MOISTURE

The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. CARTS AND STANDS

The appliance should be used only with a cart or stand that is recommended by the manufacturer.

- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



7. WALL OR CEILING MOUNTING

This equipment is not designed for use mounted on a wall or a ceiling.

8. VENTILATION

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. HEAT

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. POWER SOURCES

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

12. CLEANING

The appliance should be cleaned only as recommended by the manufacturer.

13. NON USE PERIODS

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

14. OBJECT AND LIQUID ENTRY

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

15. SERVICING

The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

16. DAMAGE REQUIRING SERVICE

The appliance should be serviced by qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure is damaged.

17. POWER LINES

(APPLIES TO TUNER AND RECEIVERS ONLY)

An outdoor antenna should be located away from power lines.

18. OUTDOOR ANTENNA GROUNDING

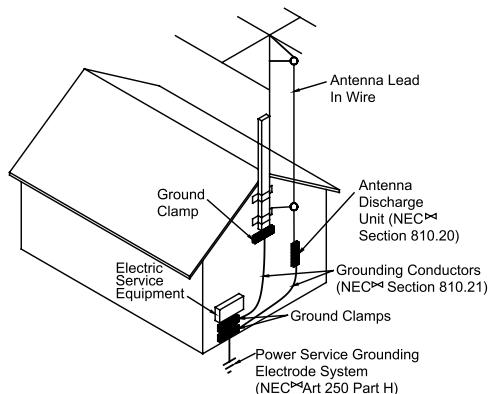
(APPLIES TO TUNER AND RECEIVERS ONLY)

If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.

- Use No. 10 AWG (5.3 mm²) copper, No. 8 AWG (8.4 mm²) aluminum, No. 17 AWG (1.0 mm²) copper-clad steel or bronze wire, or larger, as a ground wire.
- Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4-6 feet (1.22-1.83 m) apart.
- Mount antenna discharge unit as close as possible to where lead-in enters house.
- Use jumper wire not smaller than No.6 AWG (13.3 mm²) copper, or the equivalent, when a separate antenna-grounding electrode is used. See NEC Section 810-21(j).

Antenna Grounding According to the National Electrical Code



† National Electrical Code Available from Library, book stores, or National Fire Protection Association (Batterymarch Park, Quincy, MA 02269).

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