



XG-25M Mobile Radios

50-Watt VHF, 136 to 174 MHz
14015-0010-01,

50-Watt UHF, 378 to 470 MHz
14015-0030-01,

35-Watt Dual-Band, 700/800 MHz
14015-0020-01

Includes Front-Mount and
Remote-Mount Applications



For radio installation information, refer to *Installation Manual* publication number 14221-1510-4440, which is available on-line via Tech-Link, or as a printed manual. See page 32 for additional information.

MANUAL REVISION HISTORY

REV.	DATE	REASON FOR CHANGE
–	Aug/12	Initial release.
A	May/13	Added 700/800 MHz radio. Removed installation information (see publication 14221-1510-4440).
B	Oct/13	Revised regulatory information.
C	Mar/14	Added 378 - 470 MHz UHF radio and the respective antenna MPE information.

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1 REGULATORY AND SAFETY INFORMATION

1.1 SAFETY SYMBOL CONVENTIONS

The following conventions are used in this manual to alert the user to general safety precautions that must be observed during all phases of operation, installation, service, and repair of this product. Failure to comply with these precautions or with specific warnings elsewhere violates safety standards of design, manufacture, and intended use of the product. Harris assumes no liability for the customer's failure to comply with these standards.



The **WARNING** symbol calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a **WARNING** symbol until the conditions identified are fully understood or met.



The **CAUTION** symbol calls attention to an operating procedure, practice, or the like, which, if not performed correctly or adhered to, could result in damage to the equipment or severely degrade equipment performance.



The **NOTE** symbol calls attention to supplemental information, which may improve system performance or clarify a process or procedure.

1.2 RF ENERGY EXPOSURE AWARENESS AND CONTROL INFORMATION FOR FCC OCCUPATIONAL USE REQUIREMENTS

Before using the two-way mobile radio, review the following important RF energy awareness and control information and operational instructions. Comply with this information and instructions in order to ensure compliance with RF exposure guidelines.



This radio is intended for use in occupational/controlled conditions, where users have full knowledge of their exposure and can exercise control over their exposure to remain below RF exposure limits. This radio is **NOT** authorized for general population, consumer, or any other use.



Changes or modifications not expressly approved by Harris could void the user's authority to operate the equipment.

This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses RF energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, electric power, sunlight, and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which, when used improperly, can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

Experts in science, engineering, medicine, health, and industry work with organizations to develop standards for exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection. All two-way radios marketed in North America are designed, manufactured, and tested to

ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it. Refer to the following websites for more information on what RF energy exposure is and how to control exposure to assure compliance with established RF exposure limits:

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html>

<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

1.2.1 Federal Communications Commission Regulations

Before it was marketed in the United States, the XG-25M two-way mobile radio was tested to ensure compliance with FCC RF energy exposure limits for two-way mobile radios. When two-way radios are used as a consequence of employment, the FCC requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a label directing users to specific user awareness information. The radio has an RF exposure product label. Also, this Product Safety Manual and the applicable Operator's Manual include information and operating instructions required to control RF exposure and to satisfy compliance requirements.

1.3 COMPLIANCE WITH RF EXPOSURE STANDARDS

The XG-25M two-way mobile radio is designed and tested to comply with a number of national and international standards and guidelines regarding human exposure to RF electromagnetic energy. This radio complies with the IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at duty-cycle times of up to 50% (50% transmit, 50% receive), and it is authorized by the FCC for occupational use. In terms of measuring RF energy for compliance with the FCC exposure guidelines, the radio's antenna radiates measurable RF energy only while it is transmitting (talking), not when it is receiving (listening), or in a standby mode.

The XG-25M two-way mobile radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission (FCC), Code of Federal Regulations; 47 CFR § 2 sub-part J.
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95.1-2005.
- Institute of Electrical and Electronic Engineers (IEEE) C95.1-2005.
- IC Standard RSS-102, Issue 2, 2005: Spectrum Management and Telecommunications Radio Standards Specification. Radiofrequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).



Table 1-1 (for a VHF radio), Table 1-2 (for a UHF radio), and Table 1-3 (for a 700/800 MHz radio) list the recommended minimum safe lateral distances for a controlled environment and for unaware bystanders in an uncontrolled environment. Distances in these three (3) tables are relative to transmitting antennas (i.e., monopoles over a ground plane, or dipoles) at rated radio power for mobile radios installed in a vehicle. Transmit only when unaware bystanders are at least the uncontrolled recommended minimum safe lateral distance away from the transmitting antenna.

Based on the highest radiated RF power and the highest antenna gain in antennas to be used with XG-25M, the distances listed in Table 1-1 (for the VHF radio), Table 1-2 (for UHF radio), and Table 1-3 (for the 700/800 MHz radio) are considered safe distances for controlled and uncontrolled environments with the XG-25M mobile radio transmitting at a maximum 50% duty cycle:

**Table 1-1: Recommended Minimum Safe Lateral Distance from Transmitting Antenna
Connected to a VHF (136 to 174 MHz) XG-25M Mobile Radio**

ANTENNA ELEMENT PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-225002-001	136 to 174 MHz, 0 dBd Gain	24.8 Inches (63 Centimeters)	55.1 Inches (140 Centimeters)
AN-225006-001	132 to 960 MHz, 0 dBd Gain		
AN-225002-003	136 to 174 MHz, 3 dBd Gain	35.0 Inches (89 Centimeters)	78.0 Inches (198 Centimeters)
AN-225002-004	136 to 174 MHz, 2.4 dBd Gain	32.7 Inches (83 Centimeters)	72.8 Inches (185 Centimeters)

**Table 1-2: Recommended Minimum Safe Lateral Distance from a Transmitting Antenna
Connected to a UHF (378 to 470 MHz) XG-25M Mobile Radio**

ANTENNA PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-125001-001 (mount) with AN-225006-001 (element)	132 to 960 MHz; Standard Rooftop-Mount; 0 dBd Gain; ¼-Wavelength; Field- Tuned	21.3 Inches (54 Centimeters)	47.2 Inches (120 Centimeters)
AN-125001-001 (mount) with AN-225003-001 (element)	378 to 430 MHz; Standard Rooftop-Mount; 0 dBd Gain		
AN-125001-001 (mount) with AN-225003-004 (element)	378 to 430 MHz; Standard Rooftop-Mount; 0 dBd Gain; Low-Profile		
AN-125001-001 (mount) with AN-225003-005 (element)	378 to 430 MHz; Standard Rooftop-Mount; 2 dBd Gain; Low-Profile; NGP	28.0 Inches (71 Centimeters)	61.8 Inches (157 Centimeters)
AN-125001-001 (mount) with AN-225004-001 (element)	450 to 512 MHz; Standard Rooftop-Mount; 0 dBd Gain	20.1 Inches (51 Centimeters)	44.9 Inches (114 Centimeters)
AN-125001-001 (mount) with AN-225004-004 (element)	450 to 512 MHz; Standard Rooftop-Mount; 0 dBd Gain; Low-Profile		
AN-125001-001 (mount) with AN-225004-005 (element)	450 to 512 MHz; Standard Rooftop-Mount; 2 dBd Gain; Low-Profile; NGP	25.6 Inches (65 Centimeters)	56.7 Inches (144 Centimeters)

(Table Continued on Next Page)

**Table 1-2: Recommended Minimum Safe Lateral Distance from a Transmitting Antenna
Connected to a UHF (378 to 470 MHz) XG-25M Mobile Radio**

ANTENNA PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-125001-003 (mount) with AN-225006-001 (element)	132 to 960 MHz; Thick Rooftop-Mount; 0 dBd Gain; ¼-Wavelength; Field- Tuned	21.3 Inches (54 Centimeters)	47.2 Inches (120 Centimeters)
AN-125001-003 (mount) with AN-225003-001 (element)	378 to 430 MHz; Thick Rooftop-Mount; 0 dBd Gain		
AN-125001-003 (mount) with AN-225003-004 (element)	378 to 430 MHz; Thick Rooftop-Mount; 0 dBd Gain; Low-Profile		
AN-125001-003 (mount) with AN-225003-005 (element)	378 to 430 MHz; Thick Rooftop-Mount; 2 dBd Gain; Low-Profile; NGP	28.0 Inches (71 Centimeters)	61.8 Inches (157 Centimeters)
AN-125001-003 (mount) with AN-225004-001 (element)	450 to 512 MHz; Thick Rooftop-Mount; 0 dBd Gain	20.1 Inches (51 Centimeters)	44.9 Inches (114 Centimeters)
AN-125001-003 (mount) with AN-225004-004 (element)	450 to 512 MHz; Thick Rooftop-Mount; 0 dBd Gain; Low-Profile		
AN-125001-003 (mount) with AN-225004-005 (element)	450 to 512 MHz; Thick Rooftop-Mount; 2 dBd Gain; Low-Profile; NGP	25.6 Inches (65 Centimeters)	56.7 Inches (144 Centimeters)
AN-125001-005 (mount) with AN-225006-001 (element)	132 to 960 MHz; GPS Combo Standard Rooftop-Mount; 0 dBd Gain; ¼-Wavelength; Field- Tuned	21.3 Inches (54 Centimeters)	47.2 Inches (120 Centimeters)
AN-125001-005 (mount) with AN-225003-001 (element)	378 to 430 MHz; GPS Combo Standard Rooftop-Mount; 0 dBd Gain		
AN-125001-005 (mount) with AN-225003-004 (element)	378 to 430 MHz; GPS Combo Standard Rooftop-Mount; 0 dBd Gain; Low-Profile		
AN-125001-005 (mount) with AN-225003-005 (element)	378 to 430 MHz; GPS Combo Standard Rooftop-Mount; 2 dBd Gain; Low-Profile; NGP	28.0 Inches (71 Centimeters)	61.8 Inches (157 Centimeters)

(Table Continued on Next Page)

Table 1-2: Recommended Minimum Safe Lateral Distance from a Transmitting Antenna Connected to a UHF (378 to 470 MHz) XG-25M Mobile Radio

ANTENNA PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-125001-005 (mount) with AN-225004-001 (element)	450 to 512 MHz; GPS Combo Standard Rooftop-Mount; 0 dBd Gain	20.1 Inches (51 Centimeters)	44.9 Inches (114 Centimeters)
AN-125001-005 (mount) with AN-225004-004 (element)	450 to 512 MHz; GPS Combo Standard Rooftop-Mount; 0 dBd Gain; Low-Profile		
AN-125001-005 (mount) with AN-225004-005 (element)	450 to 512 MHz; GPS Combo Standard Rooftop-Mount; 2 dBd Gain; Low-Profile; NGP	25.6 Inches (65 Centimeters)	56.7 Inches (144 Centimeters)
AN-125001-007 (mount) with AN-225006-001 (element)	132 to 960 MHz; Magnetic-Mount; 0 dBd Gain; ¼-Wavelength; Field-Tuned	21.3 Inches (54 Centimeters)	47.2 Inches (120 Centimeters)
AN-125001-007 (mount) with AN-225003-001 (element)	378 to 430 MHz; Magnetic-Mount; 0 dBd Gain		
AN-125001-007 (mount) with AN-225003-004 (element)	378 to 430 MHz; Magnetic-Mount; 0 dBd Gain; Low-Profile		
AN-125001-007 (mount) with AN-225003-005 (element)	378 to 430 MHz; Magnetic-Mount; 2 dBd Gain; Low-Profile; NGP	28.0 Inches (71 Centimeters)	61.8 Inches (157 Centimeters)
AN-125001-007 (mount) with AN-225004-001 (element)	450 to 512 MHz; Magnetic-Mount; 0 dBd Gain	20.1 Inches (51 Centimeters)	44.9 Inches (114 Centimeters)
AN-125001-007 (mount) with AN-225004-004 (element)	450 to 512 MHz; Magnetic-Mount; 0 dBd Gain; Low-Profile		
AN-125001-007 (mount) with AN-225004-005 (element)	450 to 512 MHz; Magnetic-Mount; 2 dBd Gain; Low-Profile; NGP	25.6 Inches (65 Centimeters)	56.7 Inches (144 Centimeters)
AN102800V1 (Discontinued)	136 to 941 MHz; ¼-Wavelength*, Standard Rooftop-Mount; 0 dBd Gain	21.3 Inches (54 Centimeters)	47.2 Inches (120 Centimeters)

**Table 1-3: Recommended Minimum Safe Lateral Distance from a Transmitting Antenna
Connected to a 700/800 MHz XG-25M Mobile Radio**

ANTENNA PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-125001-002 (mount) with AN-225001-001 (element)	700/800 MHz Standard Rooftop-Mount; 3 dBd Gain	9.8 Inches (25 Centimeters)	21.7 Inches (55 Centimeters)
AN-125001-002 (mount) with AN-225001-002 (element)	700/800 MHz Standard Rooftop-Mount; Elevated-Feed 3 dBd Gain		
AN-125001-002 (mount) with AN-225001-003 (element)	700/800 MHz Standard Rooftop-Mount; Elevated-Feed, No Ground Plane 3 dBd Gain		
AN-125001-002 (mount) with AN-225001-004 (element)	700/800 MHz Standard Rooftop-Mount; Low-Profile 2 dBd Gain		
AN-125001-002 (mount) with AN-225006-001 (element)	132 to 960 MHz, ¼-Wavelength; Standard Rooftop-Mount; 0 dBd Gain; Field-Tuned		
AN-125001-002 (mount) with AN-225001-005 (element)	700/800 MHz Standard Rooftop-Mount; 5 dBd Gain	12.6 Inches (32 Centimeters)	28.3 Inches (72 Centimeters)
AN-125001-004 (mount) with AN-225001-001 (element)	700/800 MHz Thick Rooftop-Mount; 3 dBd Gain	9.8 Inches (25 Centimeters)	21.7 Inches (55 Centimeters)
AN-125001-004 (mount) with AN-225001-002 (element)	700/800 MHz Thick Rooftop-Mount; Elevated-Feed 3 dBd Gain		
AN-125001-004 (mount) with AN-225001-003 (element)	700/800 MHz Thick Rooftop-Mount; Elevated-Feed, No Ground Plane 3 dBd Gain		
AN-125001-004 (mount) with AN-225001-004 (element)	700/800 MHz Thick Rooftop-Mount; Low-Profile 2 dBd Gain		
AN-125001-004 (mount) with AN-225006-001 (element)	132 to 960 MHz, ¼-Wavelength; Thick Rooftop-Mount; 0 dBd Gain; Field-Tuned		

(Table Continued on Next Page)

Table 1-3: Recommended Minimum Safe Lateral Distance from a Transmitting Antenna Connected to a 700/800 MHz XG-25M Mobile Radio

ANTENNA PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-125001-004 (mount) with AN-225001-005 (element)	700/800 MHz Thick Rooftop-Mount; 5 dBd Gain	12.6 Inches (32 Centimeters)	28.3 Inches (72 Centimeters)
AN-125001-006 (mount) with AN-225001-001 (element)	700/800 MHz GPS Combo Rooftop-Mount; 3 dBd / 5.15 dBi Gain	9.8 Inches (25 Centimeters)	21.7 Inches (55 Centimeters)
AN-125001-006 (mount) with AN-225001-002 (element)	700/800 MHz GPS Combo Rooftop-Mount; Elevated-Feed 3 dBd Gain		
AN-125001-006 (mount) with AN-225001-003 (element)	700/800 MHz GPS Combo Rooftop-Mount; Elevated-Feed, No Ground Plane 3 dBd Gain		
AN-125001-006 (mount) with AN-225001-004 (element)	700/800 MHz GPS Combo Rooftop-Mount; Low-Profile 2 dBd Gain		
AN-125001-006 (mount) with AN-225006-001 (element)	132 to 960 MHz, ¼-Wavelength; Combo Rooftop-Mount; 0 dBd Gain; Field-Tuned		
AN-125001-006 (mount) with AN-225001-005 (element)	700/800 MHz GPS Combo Rooftop-Mount; 5 dBd / 7.15 dBi Gain	12.6 Inches (32 Centimeters)	28.3 Inches (72 Centimeters)
AN-125001-008 (mount) with AN-225001-001 (element)	700/800 MHz Magnetic-Mount; 3 dBd Gain	9.8 Inches (25 Centimeters)	21.7 Inches (55 Centimeters)
AN-125001-008 (mount) with AN-225001-002 (element)	700/800 MHz Magnetic-Mount; Elevated-Feed 3 dBd Gain		
AN-125001-008 (mount) with AN-225001-003 (element)	700/800 MHz Magnetic-Mount; Elevated-Feed, No Ground Plane 3 dBd Gain		
AN-125001-008 (mount) with AN-225001-004 (element)	700/800 MHz Magnetic-Mount; Low-Profile 2 dBd Gain		

(Table Continued on Next Page)

**Table 1-3: Recommended Minimum Safe Lateral Distance from a Transmitting Antenna
Connected to a 700/800 MHz XG-25M Mobile Radio**

ANTENNA PART NUMBER	ANTENNA DESCRIPTION	RECOMMENDED MINIMUM LATERAL HUMAN BODY DISTANCE FROM TRANSMITTING ANTENNA	
		CONTROLLED ENVIRONMENT	UNCONTROLLED ENVIRONMENT
AN-125001-008 (mount) with AN-225006-001 (element)	132 to 960 MHz, ¼-Wavelength; Magnetic-Mount Rooftop-Mount; 0 dBd Gain; Field-Tuned	9.8 Inches (25 Centimeters)	21.7 Inches (55 Centimeters)
AN-125001-008 (mount) with AN-225001-005 (element)	700/800 MHz Magnetic-Mount; 5 dBd Gain	12.6 Inches (32 Centimeters)	28.3 Inches (72 Centimeters)
AN102800V1 (Discontinued)	136 to 941 MHz, ¼-Wavelength*, Standard Rooftop-Mount; 0 dBd Gain	9.8 Inches (25 Centimeters)	21.7 Inches (55 Centimeters)

1.3.1 Mobile Antennas

The antenna(s) for the radio must be installed in accordance with the antenna installation procedures found in the Installation Manual. Refer to the **RELATED PUBLICATIONS** section on page 32 for the respective publication number. Installation guidelines presented in the Installation Manual are limited to metal-body motor vehicles or vehicles with appropriate ground planes.

Use only approved/supplied antenna(s) or an approved replacement antenna. Unauthorized antennas, modifications, or attachments can cause the FCC RF exposure limits to be exceeded.

1.3.2 Approved Accessories

The radio has been tested and meets FCC RF guidelines when used with accessories supplied or designated for use with it. Use of other accessories may not ensure compliance with the FCC's RF exposure guidelines, and may violate FCC regulations. For a list of approved accessories refer to the Installation Manual and/or the Products and Services Catalog.

1.3.3 Contact Information

For additional information on RF exposure and other information, contact Harris using one of the contact links listed in Section 6 on page 32.

1.4 RADIO FREQUENCY INTERFERENCE

1.4.1 FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference; and,
2. This device must accept any interference received, including interference that may cause undesired operation.

1.4.2 Industry Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

1.5 OCCUPATIONAL SAFETY GUIDELINES AND SAFETY TRAINING INFORMATION

To ensure bodily exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use. Always adhere to the following basic guidelines:

- The push-to-talk button should only be depressed when intending to send a voice message.
- The radio should only be used for necessary work-related communications.
- The radio should only be used by authorized and trained personnel. It should never be operated by children.
- Do not attempt any unauthorized modification to the radio. Changes or modifications to the radio may cause harmful interference and/or cause it to exceed FCC RF exposure limits. Only qualified personnel should service the radio.
- Always use only authorized accessories (antennas, speakers/mics, etc.). Use of unauthorized accessories can cause the FCC RF exposure compliance requirements to be exceeded.

The information listed above provides the user with information needed to make him or her aware of a RF exposure, and what to do to assure that this radio operates within the FCC exposure limits of this radio.

1.6 COMMON HAZARDS



The operator of any mobile radio should be aware of certain hazards common to the operation of vehicular radio transmissions. Possible hazards include but are not limited to:

- **Explosive Atmospheres** — Just as it is dangerous to fuel a vehicle while its engine is running, be sure to turn the radio **OFF** while fueling the vehicle. If the radio is mounted in the trunk of the vehicle, **DO NOT** carry containers of fuel in the trunk.
Areas with potentially explosive atmosphere are often, but not always, clearly marked. Turn the radio **OFF** when in any area with a potentially explosive atmosphere. It is rare, but not impossible that the radio or its accessories could generate sparks.
- **Interference To Vehicular Electronic Systems** — Electronic fuel injection systems, electronic anti-skid braking systems, electronic cruise control systems, etc., are typical of the types of electronic devices that can malfunction due to the lack of protection from radio frequency (RF) energy present when transmitting. If the vehicle contains such equipment, consult the dealer for the make of vehicle and enlist his/her aid in determining if such electronic circuits perform normally when the radio is transmitting.
- **Electric Blasting Caps** — To prevent accidental detonation of electric blasting caps, **DO NOT** use two-way radios within 1000 feet (305 meters) of blasting operations. Always obey the “**Turn Off Two-Way Radios**” (or equivalent) signs posted where electric blasting caps are being used. (OSHA Standard: 1926.900).

- **Radio Frequency Energy** — To prevent burns or related physical injury from radio frequency energy, do not operate the transmitter when anyone outside of the vehicle is within the minimum safe distance from the antenna as specified in Table 1-1. Refer to Section 1.2 for additional information.
- **Vehicles Powered By Liquefied Petroleum (LP) Gas** — Radio installation in vehicles powered by liquefied petroleum gas, where the LP gas container is located in the trunk or other sealed-off space within the interior of the vehicle, must conform to the National Fire Protection Association standard **NFPA 58**. This requires:
 - The space containing the radio equipment must be isolated by a seal from the space containing the LP gas container and its fittings.
 - Outside filling connections must be used for the LP gas container.
 - The LP gas container space shall be vented to the outside of the vehicle.
- **Vehicles Equipped with Airbags** — For driver and passenger safety, avoid mounting the radio (or any other component) above or near airbag deployment areas. In addition to driver-side and passenger-side front-impact airbags, some vehicles may also be equipped with side-impact airbags. For occupant safety, verify the location of all airbags within the vehicle before installing the radio equipment.

1.7 SAFE DRIVING RECOMMENDATIONS

The American Automobile Association (AAA) advocates the following key safe driving recommendations:

- Read the literature on the safe operation of the radio.
- Keep both hands on the steering wheel and the microphone in its hanger whenever the vehicle is in motion.
- Place calls only when the vehicle is stopped.
- When talking from a moving vehicle is unavoidable, drive in the slower lane. Keep conversations brief.
- If a conversation requires taking notes or complex thought, stop the vehicle in a safe place and continue the call.
- Whenever using a mobile radio, exercise caution.

1.8 OPERATING RULES AND REGULATIONS

Two-way radio systems must be operated in accordance with the rules and regulations of the local, regional, or national government.

In the United States, the XG-25M mobile radio must be operated in accordance with the rules and regulations of the Federal Communications Commission (FCC). Operators of two-way radio equipment must be thoroughly familiar with the rules that apply to the particular type of radio operation. Following these rules helps eliminate confusion, assures the most efficient use of the existing radio channels, and results in a smoothly functioning radio network.

When using a two-way radio, remember these rules:

- It is a violation of FCC rules to interrupt any distress or emergency message. The radio operates in much the same way as a telephone “party line.” Therefore, always listen to make sure the channel is clear before transmitting. Emergency calls have priority over all other messages. If someone is sending an emergency message – such as reporting a fire or asking for help in an accident, do not transmit unless assistance can be offered.
- The use of profane or obscene language is prohibited by Federal law.

- It is against the law to send false call letters or false distress or emergency messages. The FCC requires keeping conversations brief and confined to business. Use coded messages whenever possible to save time.
- Using the radio to send personal messages (except in an emergency) is a violation of FCC rules. Send only essential messages.
- It is against Federal law to repeat or otherwise make known anything overheard on the radio. Conversations between others sharing the channel must be regarded as confidential.
- The FCC requires self-identification at certain specific times by means of call letters. Refer to the rules that apply to the particular type of operation for the proper procedure.
- No changes or adjustments shall be made to the equipment except by an authorized or certified electronics technician.



Under U.S. law, operation of an unlicensed radio transmitter within the jurisdiction of the United States may be punishable by a fine of up to \$10,000, imprisonment for up to two (2) years, or both.

1.9 OPERATING TIPS

The following conditions tend to reduce the effective range of two-way radios and should be avoided whenever possible:

- Operating the radio in areas of low terrain, or while under power lines or bridges.
- Obstructions such as mountains and buildings.



In areas where transmission or reception is poor, communication improvement may sometimes be obtained by moving a few yards in another direction, or moving to a higher elevation.

2 RENSEIGNEMENTS SUR LA RÉGLEMENTATION ET SÉCURITÉ

2.1 CONVENTIONS SUR LES SYMBOLES DE SÉCURITÉ

Les conventions suivantes sont utilisées dans le présent manuel pour avertir l'utilisateur des précautions générales de sécurité qui doivent être observées pendant toutes les phases d'opération, d'entretien et de réparation de ce produit. Le non-respect de ces précautions ou d'avertissements précisés ailleurs enfreint les normes de sécurité de la conception, de la fabrication et de l'utilisation prévue du produit. Harris n'assume aucune responsabilité pour le non-respect de ces normes par le client.



MISE EN GARDE

Le symbole **MISE EN GARDE** attire l'attention sur une procédure ou une pratique qui, si elle n'est pas correctement effectuée ou observée, pourrait entraîner une blessure personnelle. Ne pas poursuivre au-delà d'un symbole de **MISE EN GARDE** avant que les conditions identifiées soient complètement comprises ou satisfaites.



AVERTISSEMENT

Le symbole **AVERTISSEMENT** attire l'attention sur une procédure ou une pratique opérationnelle qui, si elle n'est pas correctement effectuée ou observée, pourrait entraîner un bris d'équipement ou une importante baisse de rendement de l'équipement.



REMARQUE

Le symbole **REMARQUE** attire l'attention sur des renseignements supplémentaires qui peuvent améliorer le rendement du système ou clarifier un processus ou une procédure.

2.2 RENSEIGNEMENTS SUR UNE EXPOSITION À L'ÉNERGIE DES RF

2.2.1 Renseignements Sur Le Contrôle Et La Sensibilisation À L'énergie Des RF Pour Les Exigences D'une Utilisation Professionnelle De La FCC

Avant d'utiliser les radios mobiles bidirectionnelles, passez en revue les renseignements et les instructions opérationnelles importants suivants sur le contrôle et la sensibilisation à l'énergie des RF. Se conformer à ces renseignements et instructions pour assurer la conformité aux directives d'exposition aux RF.



MISE EN GARDE

Cette radio est destinée à être utilisée dans des conditions professionnelles/contrôlées, où les utilisateurs ont une pleine connaissance de leur exposition et peuvent exercer un contrôle sur leur exposition pour rester sous les limites d'exposition aux RF. Cette radio N'est PAS autorisée pour la population générale, les consommateurs ou toute autre utilisation.



AVERTISSEMENT

Des changements ou modifications non expressément approuvés par Harris pourraient annuler le droit d'utilisation de l'équipement pour l'utilisateur.

Cette radio bidirectionnelle utilise une énergie électromagnétique dans le spectre des radiofréquences (RF) pour permettre une communication à distance entre deux utilisateurs ou plus. Elle utilise l'énergie

des RF ou les ondes radio pour envoyer et recevoir des appels. L'énergie des RF est une forme d'énergie électromagnétique. D'autres formes comprennent, entre autres, l'énergie électrique, la lumière du soleil et les rayons X. Toutefois, l'énergie des RF ne doit pas être confondue avec ces autres formes d'énergie électromagnétique qui, lorsque mal utilisées, peuvent causer des dommages biologiques. Par exemple, des niveaux très élevés de rayons X peuvent endommager les tissus et le matériel génétique.

Des experts en science, en ingénierie, en médecine, en santé et de l'industrie travaillent avec des organismes pour établir des normes pour l'exposition à l'énergie des RF. Ces normes procurent des niveaux recommandés d'exposition aux RF autant aux travailleurs qu'au grand public. Ces niveaux d'exposition aux RF recommandés comprennent d'importantes marges de protection. Toutes les radios bidirectionnelles commercialisées en Amérique du Nord sont conçues, fabriquées et testées pour s'assurer qu'elles satisfont les niveaux d'exposition aux RF établis par le gouvernement. Les fabricants recommandent également des consignes d'utilisation particulières aux utilisateurs de radios bidirectionnelles. Ces instructions sont importantes, car elles informent les utilisateurs sur l'exposition à l'énergie des RF et donnent des procédures simples sur la manière de contrôler cette exposition. Consultez les sites Web suivants (en anglais) pour de plus amples renseignements sur ce qu'est l'exposition à l'énergie des RF et comment contrôler l'exposition pour assurer la conformité aux limites d'exposition établies :

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html>

<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

2.2.1.1 Règlements de la Federal Communications Commission (« Commission fédérale des communications » aux États-Unis)

Avant d'être mise sur le marché aux États-Unis, la radio mobile bidirectionnelle XG-25M a été testée pour s'assurer de sa conformité aux limites d'exposition à l'énergie des RF de la FCC pour les radios mobiles bidirectionnelles. Lorsque les radios bidirectionnelles sont utilisées à la suite d'une embauche, la FCC demande aux utilisateurs de bien connaître et de pouvoir contrôler leur exposition pour satisfaire les exigences professionnelles. La sensibilisation à l'exposition peut être facilitée par l'utilisation d'une étiquette qui dirige les utilisateurs vers des renseignements particuliers sur la sensibilisation de l'utilisateur. La radio possède une étiquette de produit sur l'exposition aux RF. De plus, le *Manuel sur la sécurité du produit* et le présent *Manuel de l'opérateur* comprennent des renseignements et les consignes d'utilisation nécessaires pour contrôler l'exposition aux RF et pour satisfaire les exigences de conformité.

2.3 CONFORMITÉ AUX NORMES D'EXPOSITION AUX RF

La radio mobile bidirectionnelle XG-25M est conçue et testée pour être conforme à un certain nombre de normes et directives nationales et internationales quant à l'exposition humaine à l'énergie électromagnétique des RF. Cette radio est conforme aux limites d'exposition de l'IEEE et de la Commission internationale de protection contre les rayonnements non ionisants pour un environnement professionnel/contrôlé d'exposition aux RF à des périodes de cycle de service allant jusqu'à 50 % (50 % de transmission, 50 % de réception) et elle est autorisée par la FCC pour une utilisation professionnelle. Sur le plan de la mesure de l'énergie des RF pour la conformité aux directives d'exposition de la FCC, l'antenne de la radio irradie une énergie des RF mesurable seulement lorsqu'elle transmet (parler), et non lorsqu'elle reçoit (écouter) ou en mode d'attente.

La radio mobile bidirectionnelle XG-25M est conforme aux normes et directives d'exposition à l'énergie des RF suivantes :

- Federal Communications Commission (FCC) américaine, le Code of Federal Regulations; 47 CFR § 2 sous-partie J.
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95.1-2005.

- Institute of Electrical and Electronic Engineers (IEEE) C95.1-2005.
- IC Standard RSS-102, numéro 2, 2005 : Spectrum Management and Telecommunications Radio Standards Specification. Radiofrequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).



Tableau 2-1, Tableau 2-2 et Tableau 2-3 indiquent les distances latérales sécuritaires minimales recommandées pour un environnement contrôlé et pour les spectateurs ignorants dans un environnement non contrôlé, d'antennes de transmission (c.-à-d., des monopôles sur un plan de sol, ou des dipôles) à une puissance de radio évaluée pour les radios mobiles installées dans un véhicule. Ils ne transmettent que lorsque les spectateurs ignorants sont au moins à la distance latérale sécuritaire minimale recommandée non contrôlée de l'antenne de transmission.

Basées sur la puissance des RF irradiées la plus élevée et le gain d'antenne le plus élevé dans les antennes à utiliser avec le XG-25M, les distances indiquées dans les Tableau 2-1 (pour la radio à 136 à 174 MHz), Tableau 2-2 (pour la radio à 378 à 470 MHz) et Tableau 2-3 (pour la radio à 700/800 MHz) sont considérées comme des distances sécuritaires pour des environnements contrôlés et non contrôlés avec la radio mobile XG-25M qui transmet à un cycle de service maximal de 50 % :

Tableau 2-1 : Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 136 à 174 MHz

NUMÉRO DE PIÈCE DE L'ÉLÉMENT DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-225002-001	136 à 174 MHz, gain de 0 dBd	63 cm (24,8 po)	140 cm (55,1 po)
AN-225006-001	132 à 960 MHz, gain de 0 dBd		
AN-225002-003	136 à 174 MHz, gain de 3 dBd	89 cm (35,0 po)	198 cm (78,0 po)
AN-225002-004	136 à 174 MHz, gain de 2,4 dBd	83 cm (32,7 po)	185 cm (72,8 po)

Tableau 2-2: Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 378 à 470 MHz (UHF)

NUMÉRO DE PIÈCE DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-125001-001 (monture) avec AN-225006-001 (élément)	132 à 960 MHz; antenne de toit standard; gain de 0 dBd; ¼ - longueur d'onde; syntonisé sur place	54 cm (21.3 po)	120 cm (47.2 po)
AN-125001-001 (monture) avec AN-225003-001 (élément)	378 à 430 MHz; antenne de toit standard; gain de 0 dBd		
AN-125001-001 (monture) avec AN-225003-004 (élément)	378 à 430 MHz; antenne de toit standard; gain de 0 dBd; profil bas		
AN-125001-001 (monture) avec AN-225003-005 (élément)	378 à 430 MHz; antenne de toit standard; gain de 2 dBd; profil bas; sans plan de sol	71 cm (28.0 po)	157 cm (61.8 po)
AN-125001-001 (monture) avec AN-225004-001 (élément)	450 à 512 MHz; antenne de toit standard; gain de 0 dBd	51 cm (20.1 po)	114 cm (44.9 po)
AN-125001-001 (monture) avec AN-225004-004 (élément)	450 à 512 MHz; antenne de toit standard; gain de 0 dBd; profil bas		
AN-125001-001 (monture) avec AN-225004-005 (élément)	450 à 512 MHz; antenne de toit standard; gain de 2 dBd; profil bas; sans plan de sol	65 cm (25.6 po)	144 cm (56.7 po)
AN-125001-003 (monture) avec AN-225006-001 (élément)	132 à 960 MHz; antenne de toit épais de; gain de 0 dBd; ¼ - longueur d'onde; syntonisé sur place	54 cm (21.3 po)	120 cm (47.2 po)
AN-125001-003 (monture) avec AN-225003-001 (élément)	378 à 430 MHz; antenne de toit épais de; gain de 0 dBd		
AN-125001-003 (monture) avec AN-225003-004 (élément)	378 à 430 MHz; antenne de toit épais de; gain de 0 dBd; profil bas		

(Suite du tableau à la page suivante)

Tableau 2-2: Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 378 à 470 MHz (UHF)

NUMÉRO DE PIÈCE DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-125001-003 (monture) avec AN-225003-005 (élément)	378 à 430 MHz; antenne de toit épais de; gain de 2 dBd; profil bas; sans plan de sol	71 cm (28.0 po)	157 cm (61.8 po)
AN-125001-003 (monture) avec AN-225004-001 (élément)	450 à 512 MHz; antenne de toit épais de; gain de 0 dBd	51 cm (20.1 po)	114 cm (44.9 po)
AN-125001-003 (monture) avec AN-225004-004 (élément)	450 à 512 MHz; antenne de toit épais de; gain de 0 dBd; profil bas		
AN-125001-003 (monture) avec AN-225004-005 (élément)	450 à 512 MHz; antenne de toit épais de; gain de 2 dBd; profil bas; sans plan de sol	65 cm (25.6 po)	144 cm (56.7 po)
AN-125001-005 (monture) avec AN-225006-001 (élément)	132 à 960 MHz; Combo antenne de toit épais et; gain de 0 dBd; ¼ - longueur d'onde; syntonisé sur place	54 cm (21.3 po)	120 cm (47.2 po)
AN-125001-005 (monture) avec AN-225003-001 (élément)	378 à 430 MHz; Combo antenne de toit épais et; gain de 0 dBd		
AN-125001-005 (monture) avec AN-225003-004 (élément)	378 à 430 MHz; Combo antenne de toit épais et; gain de 0 dBd; profil bas		
AN-125001-005 (monture) avec AN-225003-005 (élément)	378 à 430 MHz; Combo antenne de toit épais et; gain de 2 dBd; profil bas; sans plan de sol	71 cm (28.0 po)	157 cm (61.8 po)
AN-125001-005 (monture) avec AN-225004-001 (élément)	450 à 512 MHz; Combo antenne de toit épais et; gain de 0 dBd	51 cm (20.1 po)	114 cm (44.9 po)
AN-125001-005 (monture) avec AN-225004-004 (élément)	450 à 512 MHz; Combo antenne de toit épais et; gain de 0 dBd; profil bas		

(Suite du tableau à la page suivante)

Tableau 2-2: Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 378 à 470 MHz (UHF)

NUMÉRO DE PIÈCE DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-125001-005 (monture) avec AN-225004-005 (élément)	450 à 512 MHz; Combo antenne de toit épais et; gain de 2 dBd; profil bas; sans plan de sol	65 cm (25.6 po)	144 cm (56.7 po)
AN-125001-007 (monture) avec AN-225006-001 (élément)	132 à 960 MHz; montage magnétique; gain de 0 dBd; ¼ - longueur d'onde; syntonisé sur place	54 cm (21.3 po)	120 cm (47.2 po)
AN-125001-007 (monture) avec AN-225003-001 (élément)	378 à 430 MHz; montage magnétique; gain de 0 dBd		
AN-125001-007 (monture) avec AN-225003-004 (élément)	378 à 430 MHz; montage magnétique; gain de 0 dBd; profil bas		
AN-125001-007 (monture) avec AN-225003-005 (élément)	378 à 430 MHz; montage magnétique; gain de 2 dBd; profil bas; sans plan de sol	71 cm (28.0 po)	157 cm (61.8 po)
AN-125001-007 (monture) avec AN-225004-001 (élément)	450 à 512 MHz; montage magnétique; gain de 0 dBd	51 cm (20.1 po)	114 cm (44.9 po)
AN-125001-007 (monture) avec AN-225004-004 (élément)	450 à 512 MHz; montage magnétique; gain de 0 dBd; profil bas		
AN-125001-007 (monture) avec AN-225004-005 (élément)	450 à 512 MHz; montage magnétique; gain de 2 dBd; profil bas; sans plan de sol	65 cm (25.6 po)	144 cm (56.7 po)
AN102800V1 (n'est plus vendu)	136 à 941 MHz; ¼ - longueur d'onde, antenne de toit standard; gain de 0 dBd	54 cm (21.3 po)	120 cm (47.2 po)

Tableau 2-3 : Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 700/800 MHz

NUMÉRO DE PIÈCE DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-125001-002 (monture) avec AN-225001-001 (élément)	Antenne de toit standard de 700/800 MHz; gain de 3 dBd	25 cm (9,8 po)	55 cm (21,7 po)
AN-125001-002 (monture) avec AN-225001-002 (élément)	Antenne de toit standard de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd		
AN-125001-002 (monture) avec AN-225001-003 (élément)	Antenne de toit standard de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd sans plan de sol		
AN-125001-002 (monture) avec AN-225001-004 (élément)	Antenne de toit standard de 700/800 MHz; gain de 2 dBd à profil bas		
AN-125001-002 (monture) avec AN-225006-001 (élément)	132 à 960 MHz, ¼ - longueur d'onde; antenne de toit standard; gain de 0 dBd; syntonisé sur place		
AN-125001-002 (monture) avec AN-225001-005 (élément)	Antenne de toit standard de 700/800 MHz; gain de 5 dBd	32 cm (12,6 po)	72 cm (28,3 po)
AN-125001-004 (monture) avec AN-225001-001 (élément)	Antenne de toit épais de 700/800 MHz; gain de 3 dBd	25 cm (9,8 po)	155 cm (21,7 po)
AN-125001-004 (monture) avec AN-225001-002 (élément)	Antenne de toit épais de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd		
AN-125001-004 (monture) avec AN-225001-003 (élément)	Antenne de toit épais de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd sans plan de sol		
AN-125001-004 (monture) avec AN-225001-004 (élément)	Antenne de toit épais de 700/800 MHz; gain de 2 dBd à profil bas		

(Suite du tableau à la page suivante)

Tableau 2-3 : Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 700/800 MHz

NUMÉRO DE PIÈCE DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-125001-004 (monture) avec AN-225006-001 (élément)	132 à 960 MHz, ¼ - longueur d'onde; pour toit épais; gain de 0 dBd; syntonisé sur place	25 cm (9,8 po)	155 cm (21,7 po)
AN-125001-004 (monture) avec AN-225001-005 (élément)	Antenne de toit épais de 700/800 MHz; gain de 5 dBd	32 cm (12,6 po)	72 cm (28,3 po)
AN-125001-006 (monture) avec AN-225001-001 (élément)	Combo antenne de toit et GPS de 700/800 MHz; gain de 3 dBd / 5,15 dBi	25 cm (9,8 po)	55 cm (21,7 po)
AN-125001-006 (monture) avec AN-225001-002 (élément)	Combo antenne de toit épais et GPS de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd		
AN-125001-006 (monture) avec AN-225001-003 (élément)	Combo antenne de toit et GPS 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd sans plan de sol		
AN-125001-006 (monture) avec AN-225001-004 (élément)	Combo antenne de toit et GPS de 700/800 MHz; gain de 2 dBd à profil bas		
AN-125001-006 (support) avec AN-225006-001 (élément)	132 à 960 MHz, ¼ - longueur d'onde; support sur le toit à combo; gain de 0 dBd; champ syntonisé		
AN-125001-006 (monture) avec AN-225001-005 (élément)	Combo antenne de toit et GPS de 700/800 MHz; gain de 5 dBd / 7,15 dBi	32 cm (12,6 po)	72 cm (28,3 po)
AN-125001-008 (monture) avec AN-225001-001 (élément)	Antenne magnétique de 700/800 MHz; gain de 3 dBd	25 cm (9,8 po)	55 cm (21,7 po)
AN-125001-008 (monture) avec AN-225001-002 (élément)	Antenne magnétique de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd		

(Suite du tableau à la page suivante)

Tableau 2-3 : Distance latérale sécuritaire minimale recommandée d'une antenne de transmission branchée sur une radio mobile XG-25M de 700/800 MHz

NUMÉRO DE PIÈCE DE L'ANTENNE	DESCRIPTION DE L'ANTENNE	DISTANCE MINIMALE RECOMMANDÉE DE L'ANTENNE DE TRANSMISSION POUR LE CORPS HUMAIN	
		ENVIRONNEMENT CONTRÔLÉ	ENVIRONNEMENT NON CONTRÔLÉ
AN-125001-008 (monture) avec AN-225001-003 (élément)	Antenne magnétique de 700/800 MHz; point d'alimentation surélevé, gain de 3 dBd sans plan de sol	25 cm (9,8 po)	55 cm (21,7 po)
AN-125001-008 (monture) avec AN-225001-004 (élément)	Antenne magnétique de 700/800 MHz; gain de 2 dBd à profil bas		
AN-125001-008 (monture) avec AN-225006-001 (élément)	132 à 960 MHz, ¼ - longueur d'onde; antenne de toit à monture magnétique; gain de 0 dBd; syntonisé sur place		
AN-125001-008 (monture) avec AN-225001-005 (élément)	Antenne à monture magnétique de 700/800 MHz; gain de 5 dBd	32 cm (12,6 po)	72 cm (28,3 po)
AN102800V1 (n'est plus vendu)	136 à 941 MHz, ¼ - longueur d'onde*; antenne de toit standard; gain de 0 dBd	25 cm (9,8 po)	55 cm (21,7 po)

2.3.1 Antennes mobiles

Les antennes pour la radio doivent être installées conformément aux procédures présentées dans le *Manuel sur la sécurité du produit* et dans le *Manuel d'installation*. L'installation est limitée à un ou des véhicules motorisés en métal avec des plans au sol appropriés.

Utilisez uniquement les antennes approuvées/fournies ou une antenne de remplacement approuvée. Des antennes, des modifications ou des accessoires non autorisés peuvent causer un dépassement des limites d'exposition aux RF de la FCC.

2.3.2 Accessoires approuvés

La radio a été testée et satisfait les directives de RF de la FCC lorsqu'elle est utilisée avec les accessoires fournis ou conçus pour être utilisés avec elle. L'utilisation d'autres accessoires peut ne pas garantir la conformité aux directives d'exposition de la FCC et peut enfreindre la réglementation de la FCC. Pour une liste d'accessoires approuvés, consultez le *Manuel d'installation* ou le *Catalogue de produits et services* de Harris.



Utilisez toujours des accessoires autorisés Harris (antennes, haut-parleurs/micros, etc.). L'utilisation d'accessoires non autorisés peut entraîner un dépassement des exigences de conformité pour une exposition aux RF professionnelle ou contrôlée de la FCC.

2.3.3 Coordonnées

Pour de plus amples renseignements sur l'exposition aux RF ou d'autres renseignements, contactez Harris en utilisant l'un des liens apparaissant à la Section 6.

2.4 INTERFÉRENCE DES RADIOFRÉQUENCES

2.4.1 Partie 15 de la FCC

Cet appareil est conforme à la Partie 15 de la réglementation de la FCC. Le fonctionnement est soumis aux deux conditions suivantes :

1. Cet appareil ne doit pas causer une interférence nuisible; et
2. Cet appareil doit accepter toute interférence reçue, y compris une interférence qui peut causer un fonctionnement non souhaité.

2.4.2 Industrie Canada

Cet appareil est conforme aux normes RSS exemptées de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, y compris une interférence qui peut causer un fonctionnement non souhaité de l'appareil.

2.5 RENSEIGNEMENTS SUR LA FORMATION SUR LA SANTÉ ET LA SÉCURITÉ AU TRAVAIL

S'assurer que l'exposition physique à l'énergie électromagnétique des RF se situe dans les limites acceptables de la FCC pour l'utilisation professionnelle. Toujours se conformer aux directives de base suivantes :

- Le bouton de microphone doit être abaissé seulement lorsque l'on souhaite envoyer un message vocal.
- La radio doit être utilisée seulement pour les communications nécessaires liées au travail.
- La radio doit être utilisée seulement par du personnel autorisé et formé. Elle ne doit jamais être utilisée par des enfants.
- Ne tentez pas d'apporter une modification non autorisée à la radio. Des changements ou des modifications à la radio peuvent causer une interférence nocive ou entraîner un dépassement des limites d'exposition aux RF de la FCC. Seul le personnel qualifié doit utiliser la radio.
- Utilisez toujours seulement des accessoires autorisés (antennes, haut-parleurs/micros, etc.). L'utilisation d'accessoires non autorisés peut entraîner un dépassement des exigences de conformité pour une exposition aux RF de la FCC.

Les renseignements donnés ci-dessus donnent à l'utilisateur les renseignements nécessaires pour le sensibiliser à l'exposition aux RF et sur ce qu'il faut faire pour s'assurer que cette radio fonctionne dans les limites d'exposition de la FCC de cette radio.

3 MARITIME FREQUENCIES

Refer to Table 3-1 for a list of maritime frequencies per United States Coast Guard (USCG), National Oceanic and Atmospheric Administration (NOAA), and Canadian Department Fisheries and Oceans.

- United States (US)
- International (Intl)
- Canada (CA)

Table 3-1: Maritime Frequencies

CHANNEL			FREQUENCY		CHANNEL USAGE
US	INTL	CA	SHIP (MHz)	SHORE (MHz)	
	1	1	T: 156.05 R: 160.65	T: 160.65 R: 156.05	International: Public Correspondence, Port Operations.
1a			T/R: 156.05	T/R: 156.05	US: Port Operations and Commercial, Vessel Traffic Service (VTS). New Orleans/Lower Mississippi area.
	2	2	T: 156.10 R: 160.70	T: 160.70 R: 156.10	International: Public Correspondence, Port Operations.
	3	3	T: 156.15 R: 160.75	T: 160.75 R: 156.15	International: Public Correspondence, Port Operations.
	4		T: 156.20 R: 160.80	T: 160.80 R: 156.20	International: Public Correspondence, Port Operations.
		4a	T/R: 156.20	T/R: 156.20	Canada: Department Fisheries Ocean (DFO)/Canadian Coast Guard only in British Columbia coast area. Commercial fishing in east coast area.
	5		T: 156.25 R: 160.85	T: 160.85 R: 156.25	International: Public Correspondence, Port Operations.
5a		5a	T/R: 156.25	T/R: 156.25	US: Port Operations or VTS in Houston, New Orleans and Seattle areas.
6	6	6	T/R: 156.30	T/R: 156.30	US: Intership Safety. International: Intership. Canada: May be used for search and rescue communications between ships and aircraft.
	7		T: 156.35 R: 160.95	T: 160.95 R: 156.35	International: Public Correspondence, Port Operations.
7a		7a	T/R: 156.35	T/R: 156.35	US: Commercial.
8	8	8	T/R: 156.40	T/R: 156.40	US: Commercial (Intership only). International: Intership. Canada: Also assigned for intership in the Lake Winnipeg area.
9	9	9	T/R: 156.45	T/R: 156.45	US: Boater Calling. Commercial and Non-Commercial. International: Intership, Port Operations. Canada: Commercial - British Columbia coast area. May be used to communicate with aircraft and helicopters in predominantly maritime support operations.
10	10	10	T/R: 156.50	T/R: 156.50	US: Commercial. International: Intership, Port Operations. Canada: Commercial - British Columbia coast area. May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations.

Table 3-1: Maritime Frequencies

CHANNEL			FREQUENCY		CHANNEL USAGE
US	INTL	CA	SHIP (MHz)	SHORE (MHz)	
11	11	11	T/R: 156.55	T/R: 156.55	US: Commercial. VTS in selected areas. International: Port Operations. Canada: VTS - British Columbia coast area. Also used for pilotage purposes.
12	12	12	T/R: 156.60	T/R: 156.60	US: Port Operations. VTS in selected areas. International: Port Operations. Canada: VTS - British Columbia coast area. Also used for pilotage purposes.
13	13	13	T/R: 156.65	T/R: 156.65	US: Intership Navigation Safety (Bridge-to-bridge). Ships >20m length maintain a listening watch on this channel in US waters. International: Intership, Port Operations. Canada: VTS - British Columbia coast area. Also used for pilotage purposes.
14	14	14	T/R: 156.70	T/R: 156.70	US: Port Operations. VTS in selected areas. International: Port Operations. Canada: VTS - British Columbia coast area. Also used for pilotage purposes.
15	15	15	T/R: 156.75 (US: Rx Only)	T/R: 156.75	US: Environmental (Receive only). Used by Class C Emergency Position-Indicating Radio Beacons (EPIRBs). International: Intership, Port Operations. Canada: Port operations and Ship Movement - British Columbia coast area. All operations limited to 1-watt maximum power. May also be used for on-board communications.
16	16	16	T/R: 156.80	T/R: 156.80	US: International Distress, Safety and Calling. Ships required to carry radio, US Coast Guard (USCG), and most coast stations maintain a listening watch on this channel. International: International Distress, Safety and Calling. Canada: International Distress, Safety and Calling.
17	17	17	T/R: 156.85	T/R: 156.85	US: State Control. International: Intership, Port Operations. Canada: Port operations and Ship Movement - British Columbia coast area. All operations limited to 1 watt maximum power. May also be used for on-board communications.
	18		T: 156.90 R: 161.50	T: 161.50 R: 156.90	International: Public Correspondence, Port Operations.
18a		18a	T/R: 156.90	T/R: 156.90	US: Commercial. Canada: Towing - British Columbia coast area.
	19		T: 156.95 R: 161.55*	T: 161.55* R: 156.95	International: Public Correspondence, Port Operations.
19a		19a	T/R: 156.95	T/R: 156.95	US: Commercial. Canada: DFO/Canadian Coast Guard. Pacific Pilots - British Columbia coast area.
20	20	20	T: 157.00 R: 161.60	T: 161.60 R: 157.00	US: Port Operations (Duplex). International: Public Correspondence, Port Operations. Canada: Port operations only with 1 watt maximum power.
20a			T/R: 157.00	T/R: 157.00	US: Port Operations.

Table 3-1: Maritime Frequencies

CHANNEL			FREQUENCY		CHANNEL USAGE
US	INTL	CA	SHIP (MHz)	SHORE (MHz)	
	21		T: 157.05 R: 161.65*	T: 161.65* R: 157.05	International: Public Correspondence, Port Operations.
21a		21a	T/R: 157.05	T/R: 157.05	US: US Coast Guard only. Canada: DFO/Canadian Coast Guard only.
		21b	--	T/R: 161.65	Canada: Continuous Marine Broadcast (CMB) service (weather).
	22		T: 157.10 R: 161.70	T: 161.70 R: 157.10	International: Public Correspondence, Port Operations.
22a		22a	T/R: 157.10	T/R: 157.10	US: Coast Guard Liaison and Maritime Safety Information Broadcasts. Broadcasts announced on channel 16. Canada: For communications between Canadian Coast Guard and non-Canadian Coast Guard stations only.
	23	23	T: 157.15 R: 161.75	T: 161.75 R: 157.15	International: Public Correspondence, Port Operations.
23a			T/R: 157.15	T/R: 157.15	US: US Coast Guard only.
		23b	--	T/R: 161.75	Canada: Continuous Marine Broadcast (CMB) service (weather).
24	24	24	T: 157.20 R: 161.80	T: 161.80 R: 157.20	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
25	25	25	T: 157.25 R: 161.85	T: 161.85 R: 157.25	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations. Canada: Also assigned for operations in the Lake Winnipeg area.
		25b		T/R: 161.85	Canada: Continuous Marine Broadcast (CMB) service (weather).
26	26	26	T: 157.30 R: 161.90	T: 161.90 R: 157.30	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
27	27	27	T: 157.35 R: 161.95	T: 161.95 R: 157.35	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
28	28	28	T: 157.40 R: 162.00	T: 162.00 R: 157.40	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
		28b	--	T/R: 162.00	Canada: Continuous Marine Broadcast (CMB) service (weather).
	60	60	T: 156.025 R: 160.625	T: 160.625 R: 156.025	International: Public Correspondence, Port Operations.
	61		T: 156.075 R: 160.675	T: 160.675 R: 156.075	International: Public Correspondence, Port Operations.
		61a	T/R: 156.075	T/R: 156.075	Canada: DFO/Canadian Coast Guard only in British Columbia coast area.
	62		T: 156.125 R: 160.725	T: 160.725 R: 156.125	International: Public Correspondence, Port Operations.
		62a	T/R: 156.125	T/R: 156.125	Canada: DFO/Canadian Coast Guard only in British Columbia coast area.

Table 3-1: Maritime Frequencies

CHANNEL			FREQUENCY		CHANNEL USAGE
US	INTL	CA	SHIP (MHz)	SHORE (MHz)	
	63		T: 156.175 R: 160.775	T: 160.775 R: 156.175	International: Public Correspondence, Port Operations.
63a		63a	T/R: 156.175	T/R: 156.175	US: Port Operations and Commercial, VTS. New Orleans/Lower Mississippi area. Canada: Tow Boats - British Columbia coast area.
	64	64	T: 156.225 R: 160.825	T: 160.825 R: 156.225	International: Public Correspondence, Port Operations.
		64a	T/R: 156.225	T/R: 156.225	Canada: Commercial fishing only.
	65		T: 156.275 R: 160.875	T: 160.875 R: 156.225	International: Public Correspondence, Port Operations.
65a		65a	T/R: 156.275	T/R: 156.275	US: Port Operations. Canada: Search and rescue and antipollution operations on the Great Lakes. Towing on the Pacific Coast. Port operations only in the St. Lawrence River areas with 1 watt maximum power. Intership in inland Manitoba, Saskatchewan, and Alberta areas.
	66		T: 156.325 R: 160.925	T: 160.925 R: 156.325	International: Public Correspondence, Port Operations.
66a		66a	T/R: 156.325	T/R: 156.325	US: Port Operations. Canada: Port operations only in the St. Lawrence River/Great Lakes areas with 1 watt maximum power. 1 watt marina channel - British Columbia coast area.
67	67	67	T/R: 156.375	T/R: 156.375	US: Commercial. Used for Bridge-to-bridge communications in lower Miss. River. Intership only. International: Intership, Port Operations. Canada: May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations. Commercial fishing only in east coast and inland Manitoba, Saskatchewan, and Alberta areas. Pleasure craft - British Columbia coast area.
68	68	68	T/R: 156.425	T/R: 156.425	US: Non-Commercial. International: Port Operations. Canada: For marinas, yacht clubs and pleasure craft.
69	69	69	T/R: 156.475	T/R: 156.475	US: Non-Commercial. International: Intership, Port Operations. Canada: Commercial fishing only - east coast area. Pleasure craft - British Columbia coast area.
70	70	70	T/R: 156.525	T/R: 156.525	US: Digital Selective Calling (voice communications not allowed). International: Digital selective calling for distress, safety and calling. Canada: Digital selective calling for distress, safety and calling.
71	71	71	T/R: 156.575	T/R: 156.575	US: Non-Commercial. International: Port Operations. Canada: Ship Movement - British Columbia coast area. Marinas and yacht clubs - east coast and on Lake Winnipeg.
72	72	72	T/R: 156.625	T/R: 156.625	US: Non-Commercial (Intership only). International: Intership. Canada: May be used to communicate with aircraft and helicopters in predominantly maritime support operations. Pleasure craft - British Columbia coast area.

Table 3-1: Maritime Frequencies

CHANNEL			FREQUENCY		CHANNEL USAGE
US	INTL	CA	SHIP (MHz)	SHORE (MHz)	
73	73	73	T/R: 156.675	T/R: 156.675	US: Port Operations. International: Intership, Port Operations. Canada: May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations. Commercial fishing only in east coast and inland Manitoba, Saskatchewan, and Alberta areas.
74	74	74	T/R: 156.725	T/R: 156.725	US: Port Operations. International: Port Operations. Canada: VTS and Ship Movement British Columbia coast area.
	75	75	T/R: 156.775	T/R: 156.775	International: Port Operations. Canada: Simplex port operation, ship movement and navigation related communication only. 1 watt maximum.
	76	76	T/R: 156.825	T/R: 156.825	International: Port Operations. Canada: Simplex port operation, ship movement and navigation related communication only. 1 watt maximum.
77	77	77	T/R: 156.875	T/R: 156.875	US: Port Operations (Intership only). International: Intership. Canada: Pilotage - British Columbia coast area; 25 watts. Port operations only in the St. Lawrence River/Great Lakes areas with 1 watt maximum power.
	78		T: 156.925 R: 161.525	T: 161.525 R: 156.925	International: Public Correspondence, Port Operations.
78a		78a	T/R: 156.925	T/R: 156.925	US: Non-Commercial. Canada: Fishing Industry - British Columbia coast area.
	79		T: 156.975 R: 161.575	T: 161.575 R: 156.975	International: Public Correspondence, Port Operations.
79a		79a	T/R: 156.975	T/R: 156.975	US: Commercial. Non-Commercial in Great Lakes only. Canada: Fishing Industry - British Columbia coast area.
	80		T: 157.025 R: 161.625	T: 161.625 R: 157.025	International: Public Correspondence, Port Operations.
80a		80a	T/R: 157.025	T/R: 157.025	US: Commercial. Non-Commercial in Great Lakes only. Canada: Fishing Industry - British Columbia coast area.
	81		T: 157.075 R: 161.675	T: 161.675 R: 157.075	International: Public Correspondence, Port Operations.
81a		81a	T/R: 157.075	T/R: 157.075	US: US Government only - Environmental protection operations. Canada: DFO/Canadian Coast Guard use only.
	82		T: 157.125 R: 161.725	T: 161.725 R: 157.125	International: Public Correspondence, Port Operations.
82a		82a	T/R: 157.125	T/R: 157.125	US: US. Government only. Canada: DFO/Canadian Coast Guard use only.
	83		T: 157.175 R: 161.775	T: 161.775 R: 157.175	International: Public Correspondence, Port Operations.
83a		83a	T/R: 157.175	T/R: 157.175	US: US Coast Guard only. Canada: DFO/Canadian Coast Guard and other Government agencies.
		83b	--	T/R: 161.775	Canada: Continuous Marine Broadcast (CMB) service (weather).

Table 3-1: Maritime Frequencies

CHANNEL			FREQUENCY		CHANNEL USAGE
US	INTL	CA	SHIP (MHz)	SHORE (MHz)	
84	84	84	T: 157.225 R: 161.825	T: 161.825 R: 157.225	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
85	85	85	T: 157.275 R: 161.875	T: 161.875 R: 157.275	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
86	86	86	T: 157.325 R: 161.925	T: 161.925 R: 157.325	US: Public Correspondence (Marine Operator). International: Public Correspondence, Port Operations.
87			T/R: 157.375	T/R: 157.375	US: Public Correspondence (Marine Operator).
	87	87	T: 157.375 R: 161.975	T: 161.975 R: 157.375	International: Port Operations. Canada: Port operation and ship movement - east coast area. Pleasure craft - British Columbia coast area.
AIS1		87b	T/R: 161.975	T/R: 161.975	US: Automatic Identification System. Canada: Automatic Ship Identification and Surveillance System.
	88	88	T: 157.425 R: 162.025	T: 162.025 R: 157.425	US: Commercial, Intership only. International: Port Operations. Canada: Port operation and ship movement - British Columbia coast area.
88a			T/R: 157.425	T/R: 157.425	US: Commercial, Intership only. Canada: Automatic Ship Identification and Surveillance System.
		88b	T/R: 162.025	T/R: 162.025	Automatic Identification System.
WX1		WX1		R: 162.55	Weather Channel 1 (receive only).
WX2		WX2		R: 162.4	Weather Channel 2 (receive only).
WX3		WX3		R: 162.475	Weather Channel 3 (receive only).
WX4				R: 162.425	Weather Channel 4 (receive only).
WX5				R: 162.45	Weather Channel 5 (receive only).
WX6				R: 162.5	Weather Channel 6 (receive only).
WX7				R: 162.525	Weather Channel 7 (receive only).

4 CATALOG AND PART NUMBERS

Table 4-1 below lists applicable radio catalog and part numbers. Refer to the *Installation Manual* for additional information:

Table 4-1: XG-25M Mobile Radio Catalog and Part Numbers

CATALOG NUMBER*	PART NUMBER	FCC TYPE ACCEPTANCE NUMBER	INDUSTRY CANADA CERTIFICATION NUMBER	DESCRIPTION
DM-MV1B	14015-0010-01	OWDTR-0075-E	3636B-0075	XG-25M VHF (136 to 174 MHz) 50-Watt Mobile Radio
DM-MU1B	14015-0030-01	OWDTR-0077-E	3636B-0077	XG-25M UHF (378 to 470 MHz) 50-Watt Mobile Radio
DM-M78B	14015-0020-01	OWDTR-0076-E	3636B-0076	XG-25M Dual-Band 700/800 MHz 35-Watt Mobile Radio

* In addition to the radio, each catalog package also contains this *Product Safety Manual* and a *Quick Guide*.

5 RELATED PUBLICATIONS

The following publications contain additional information about the XG-25M mobile radio:

- Installation Manual: 14221-1510-4440
- Quick Guide: 14221-1510-1000
- Operator's Manual: 14221-1510-2000
- Maintenance Manual, VHF: 14221-1510-5000
- Maintenance Manual, UHF: 14221-1510-5400
- Maintenance Manual, 700/800 MHz: 14221-1510-5020

Along with this Product Safety Manual, a Quick Guide is included with each mobile radio equipment package when it ships from the factory. The Quick Guide and the Operator's Manual are available at www.pspc.harris.com without a login. Obtaining an Installation Manual or a Maintenance Manual from that web site requires an Information Center log-in, then browsing to Tech Link's Technical Manual Library.

6 TECHNICAL ASSISTANCE

If any of the radio equipment requires repair, or if there are questions or concerns about the installation of this equipment, contact the Harris Technical Assistance Center (TAC) using the following telephone numbers or e-mail address:

- United States and Canada: 1-800-528-7711 (toll free)
- International: 1-434-385-2400
- Fax: 1-434-455-6712
- E-mail: PSPC_tac@harris.com

7 WARRANTY REGISTRATION

Please register this product within ten (10) days of purchase. Registration validates the warranty coverage, and enables Harris to contact you in case of any safety notifications issued for this product.

Registration can be made on-line at <http://www.pspc.harris.com/Service/Customerservice.aspx>.

8 WARRANTY

- A. Harris Corporation, a Delaware Corporation, through its RF Communications Division (hereinafter "Seller") warrants to the original purchaser for use (hereinafter "Buyer") that Equipment manufactured by or for the Seller shall be free from defects in material and workmanship, and shall conform to its published specifications. With respect to all non-Seller Equipment, Seller gives no warranty, and only the warranty, if any, given by the manufacturer shall apply. Rechargeable batteries are excluded from this warranty but are warranted under a separate Rechargeable Battery Warranty (ECR-7048).
- B. Seller's obligations set forth in Paragraph C below shall apply only to failures to meet the above warranties occurring within the following periods of time from date of sale to the Buyer and are conditioned on Buyer's giving written notice to Seller within thirty (30) days of such occurrence:
1. for fuses and non-rechargeable batteries, operable on arrival only.
 2. for parts and accessories (except as noted in B.1 and B.5), ninety (90) days.
 3. for mobile and portable radios ("Subscriber Units"), twenty-four (24) months.
 4. for Unity[®] model Subscriber Units, thirty-six (36) months.
 5. for Six-Bay battery Chargers (12082-0314-xx and CH-104570-xxx), one (1) year.
 6. for all other equipment of Seller's manufacture, one (1) year.
- C. If any Equipment fails to meet the foregoing warranties, Seller shall correct the failure at its option (i) by repairing any defective or damaged part or parts thereof, (ii) by making available at Seller's factory any necessary repaired or replacement parts, or (iii) by replacing the failed Equipment with equivalent new or refurbished Equipment. Any repaired or replacement part furnished hereunder shall be warranted for the remainder of the warranty period of the Equipment in which it is installed. Where such failure cannot be corrected by Seller's reasonable efforts, the parties will negotiate an equitable adjustment in price. Labor to perform warranty service will be provided at no charge during the warranty period only for the Equipment covered under Paragraph B.3, B.4 and B.5. To be eligible for no-charge labor, service must be performed at Seller's factory, by an Authorized Service Center (ASC) or other Servicer approved for these purposes either at its place of business during normal business hours, for mobile or personal equipment, or at the Buyer's location, for fixed location equipment. Service on fixed location equipment more than thirty (30) miles (48 km) from the Service Center or other approved Servicer's place of business will include a charge for transportation.
- D. Seller's obligations under Paragraph C shall not apply to any Equipment, or part thereof, which (i) has been modified or otherwise altered other than pursuant to Seller's written instructions or written approval or, (ii) is normally consumed in operation or, (iii) has a normal life inherently shorter than the warranty periods specified in Paragraph B, or (iv) is not properly stored, installed, used, maintained or repaired, or, (v) has been subjected to any other kind of misuse or detrimental exposure, or has been involved in an accident.
- E. The preceding paragraphs set forth the exclusive remedies for claims based upon defects in or nonconformity of the Equipment, whether the claim is in contract, warranty, tort (including negligence), strict liability or otherwise, and however instituted. Upon the expiration of the warranty period, all such liability shall terminate. The foregoing warranties are exclusive and in lieu of all other warranties, whether oral, written, expressed, implied or statutory. **NO IMPLIED OR STATUTORY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES.**

This warranty applies only within the United States.

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