



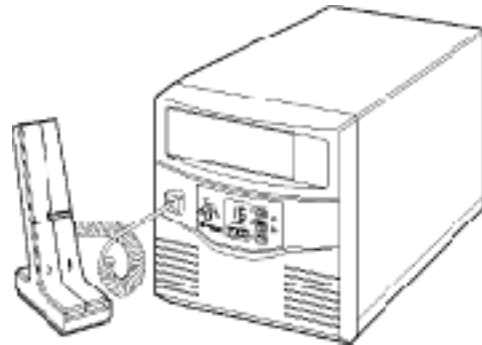
2052 NW 93 Avenue ~ Miami, Florida 33172 U.S.A.
 Phone 305-500-9302 ~ Fax 305-500-9402 ~ info@condorD.com

GR1225

REPEATER VHF & UHF ACCESSORIES

GR1225 Desktop Repeater Features:

- 12.5/25 kHz Switchable Channel Spacing
- X-Pand Technology for 12.5kHz Operation
- Built-in Basic Repeater Capabilities
- 16 Channels
- Output Power 25/50 Watts VHF, 25/45 Watts UHF
- Courtesy "Over" Beep
- Programmable Repeater Drop Out Delay
- Programmable Time-Out-Timer
- CWID (Continuous Wave Identification - Morse Code)
- PL/DPL/CSQ Codes
- Front Panel Repeater and Option Enable/Disable Control
- Continuous Duty Cycle at 25 Watts; 50% at 45/50 Watts



GR1225 Repeater with
Optional Desk

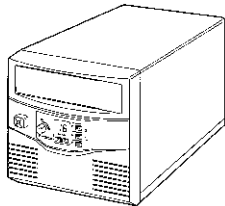
The following frequencies are self quieters and cannot be ordered:
 151.200, 168.000, 453.600, 455.500, 459.300, 470.400

Repeater Package Items

The GR1225 can be ordered fully assembled from the factory or as separate components that require dealer assembly. The factory assembled model contains all the items listed under the GR1225 housing kit and the R1225 transceiver model. Factory assembled models are UL/ULC listed and meet all the requirements of UL813. Components purchased separately do not meet requirements of UL813. If your application requires your equipment to be UL listed then you must order the factory assembled model. Separate components consist of the repeater housing, repeater transceiver, antenna and optional duplexer. When ordered separately, the dealer must assemble and program the repeater.

The following items are required for Basic Repeater Operation for both factory assembled or dealer assembled models:

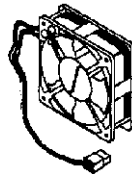
These items are part of the GR1225 Housing Kit:



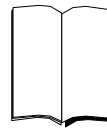
GR1225 Repeater



Power Supply

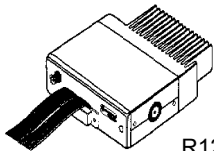


Fan

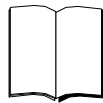


(2)Service

The following items are part of the R1225 Transceiver Models:



R1225
Repeater

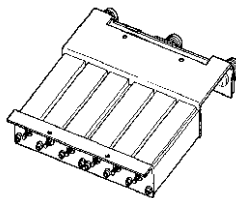


Operating Manual

The following items are optional:



Internal or External
Duplexer/Antenna
Cable



Duplexer



Antenna



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MODEL NUMBER	DESCRIPTION
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Factory assembled models are UL/ULC listed and meet all the requirements of UL813. Components purchased separately do not meet UL813 requirements. If your application requires your equipment to be UL listed, then you must order the factory assembled models.

STEP 1: Required

Select (1) of the following Factory Assembled Repeater Models

These models include an external duplexer/antenna cable. Required when using separate transmit and receive antennas or duplexers that do not fit into the GR1225 housing.

- H5158 VHF GR1225 Repeater 146-174 MHz 25/50 watts
- H5157 UHF GR1225 Repeater 444-474 MHz 25/45 watts

STEP 2: Required

Internal Duplexer Cable Option (For Factory Assembled Models Only)

Select Cable Option if required

- STDCBL0780AA External Duplexer/Antenna Cable Kit
 Required when using separate transmit and receive antennas or duplexers that do not fit into the GR1225 housing.
- G320AB Omits External Duplexer Antenna Cable Kit (HKN9026) and adds Internal Duplexer Kit (HKN9235). Required when using HFD8465 or duplexers listed at bottom of page.

STEP 3: Optional & Dealer Installed

Select (1) Tuned Duplexer - Specify Frequency for Factory Tuning. All duplexers have female type "N" connectors.

- HFD8465 VHF Duplexer 150-160 MHz (requires Internal Duplexer/Antenna Cable Kit - minimum and maximum frequency separation is 4.5 MHz/6 MHz)
- TDE7780 UHF Duplexer 450-470 MHz (requires Internal Duplexer/Antenna Cable Kit - minimum and maximum frequency separation is 5 MHz)

OR

Select (1) Untuned Duplexer

Duplexers below require tuning in field.

- HFD8189 VHF Duplexer, 155-162 MHz (minimum & maximum freq.separation is 4.5 MHz/6 MHz)
- HFD8190 VHF Duplexer, 162-174 MHz (minimum & maximum freq.separation is 4.5 MHz/6 MHz)
- HFD8188 VHF Duplexer, 144-155 MHz (minimum & maximum freq.separation is 4.5 MHz/6 MHz)
- HFE8400 UHF Duplexer, 406-450 MHz (minimum & maximum freq.separation is 5 MHz)
- HFE8401 UHF Duplexer, 470-490 MHz (minimum & maximum freq.separation is 3 MHz)

STEP 4: Optional & Dealer Installed

Select an Antenna - See page 10.

STEP 5: Optional & Dealer Installed

The R1225 repeater transceiver includes Basic Repeater Functionality. If enhanced features such as multiple PL Codes, interconnect, signalling and trunking are required, please select the appropriate controller and cables from page 9.

STEP 6: Optional & Dealer Installed

If the repeater is to be used in a high RF environment, an externally mounted preselector may be desired. See page 9 for preselector kits.



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MODEL NUMBER	DESCRIPTION
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Components purchased separately do not meet UL813 requirements. If your application requires your equipment to be UL listed then you must order the Factory Assembled models on page 7.

STEP 1: Required

Select (1) Dealer Assembled Repeater Transceiver Models

- M43GRC90C2_A VHF R1225 Repeater Transceiver 146-174 MHz 25-50 watts
- M44GRC90C2_A UHF R1225 Repeater Transceiver 444-474 MHz 25-45 watts

STEP 2: Required

Housing Kits for Dealer Assembled Models (Required)

These housings are not compatible with GM300 Mobiles.

- HLN3037 GR1225 Repeater Housing (includes GR1225/R1225 Service Manuals)
- HLN3102 GR400 X-Pand Rack Mount Repeater Housing (does not include power supply)
- HLN3103 GR500 X-Pand Wall Mount Repeater Housing
- HLN3100 Conversion Kit (This kit enables use of the R1225 transceiver with any of the HLN3102, HLN3103 GR400/GR500 X-Pand housings; 6880905Z53, 6880905Z54 Service Manuals are included)

STEP 3: Optional

Select (1) Tuned Duplexer

Additional non-tuned duplexers can be found on page 7. All duplexers have female type "N" connectors.

- HFD8465 VHF Duplexer 150-160 MHz (requires Internal Duplexer/Antenna Cable Kit - minimum and maximum frequency separation is 4.5 MHz/6 MHz)
- TDE7780 UHF Duplexer 450-470 MHz (requires Internal Duplexer/Antenna Cable Kit - minimum and maximum frequency separation is 5 MHz)

OR

Select (1) Untuned Duplexer

Duplexers below require tuning in field.

- HFD8189 VHF Duplexer, 155-162 MHz (minimum & maximum freq.separation is 4.5 MHz/6 MHz)
- HFD8190 VHF Duplexer, 162-174 MHz (minimum & maximum freq.separation is 4.5 MHz/6 MHz)
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- HFE8400 UHF Duplexer, 406-450 MHz (minimum & maximum freq.separation is 5 MHz)
- HFE8401 UHF Duplexer, 470-490 MHz (minimum & maximum freq.separation is 3 MHz)

STEP 4: Required

Select (1) Duplexer / Antenna Cable Kit

- HKN9026 GR1225 External Duplexer / Antenna Cable Kit (Required when using separate transmit and receive antennas or duplexers that do not fit into the GR1225 housing)
- HKN9235 GR1225 Internal Duplexer / Antenna Cable Kit (Required when using HFD8465, or other duplexers)
- HKN9025 GR400/GR500 X-Pand Internal Duplexer/Antenna Cable - Required for use with HFD8465 or other duplexers.
- HKN9016 GR400/GR500 X-Pand External Duplexer/Antenna Cable - Required when using separate transmit and receive antennas or duplexers that do not fit into GR400/GR500 X-Pand housings.

STEP 5: Optional

Select an Antenna - See page 10.

STEP 6: Optional

The R1225 Repeater Transceiver includes Basic Repeater functionality. If enhanced features such as multiple PL codes, interconnect, signalling and trunking are required, please select the appropriate controller and cable from page 9.

STEP 7: Optional

If the repeater is to be used in a high RF environment, an externally mounted preselector may be desired. See page 9 for preselector kits.

For other optional accessories, see pages 9-10.



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Repeater Controllers: Except where noted, all the controllers require the HKN9234 controller cable kit.

The R1225 repeater transceiver includes basic repeater functionality. If enhanced features such as multiple PL codes, interconnect, signalling and trunking are required, please select the appropriate controller and cables below.

Service information is in the GR Series Service Manual 68-80903Z42 and RSS programming information is in the GR Series Programming Guide 68-80903Z43 which can be ordered separately. The GM300 RSS (HNN8177) is used to program the controller features.

HLN8388	<p>ZR310 Community Repeater Controller</p> <p>Subdivides a repeater into separate groups of users so each group does not have to hear the conversations of other groups. Up to 70 user groups may be established. Uses GM300 RSS, HVN8177.</p>
HLN9119	<p>ZR340 Advanced Interconnect</p> <p>Provides advanced interconnect capabilities including password driven access and disconnect codes, customized toll restrict and toll restrict bypass. Does not use RSS. Programming done via DTMF parameters.</p>
HLN9447	<p>i20R Onsite Repeater</p> <p>Subdivides a repeater into separate groups of users so each group does not have to hear the conversations of other groups. Up to 10 user groups may be established. Uses i20R RSS, HVN9085.</p>
HLN9120	<p>i750R Advanced and Selective Calling Repeater</p> <p>Provides advanced interconnect capabilities and multi-mode paging. (TPL, Quik-Call II and MDC-1200) Uses i750R RSS, HVN9084</p>

The "Enhanced" SmarTrunk II™ Controller can be mounted in unmodified GR400 housings, in GR500 housing retrofitted with the HLN3043 kit and externally mounted when used with the GR1225 housing. Connection to the GR1225 Repeater requires a HKN9006 Controller Cable. An Installation and Operations manual 68-80905Z59 is included with the controller, HLN3104.

HLN3104	<p>"Enhanced" SmarTrunk II™ Repeater Controller (Model ST853) (must be externally mounted)</p> <p>Requires RadiusPort or AdvantagePort radios to be equipped with SmarTrunk II™ Advantage Boards for operation on the trunking network. Provides trunked repeater functionality, individual selective calling, group calling, all fleet calling, conventional operation and advanced interconnect capabilities. The controller has a capacity of 4096 subscribers per system, 4500 call records per controller and 320,000 paging codes. Uses SmarTrunk II™ Programming Software, HVN9021.</p>
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Controller Cables:

HKN9234	Controller Cable Kit (required for HLN8388, HLN9119, HLN9447, HLN9120)
HKN9006	"Enhanced" SmarTrunk II Repeater Controller Cable (required for HLN3104)

Preselectors: - Specify Frequency for Factory Tuning

If the repeater will be used in a high RF environment, an externally mounted preselector may be desired.

These preselectors must be mounted externally when using a GR1225 Repeater. All preselectors have a female type "N" connectors. A dealer supplied type "N" male connector is required for proper operation. The length of the cable depends on your application. Call Motorola Accessory and Aftermarkets Division (AAD) to find a cable for your individual application.

HFD8461	VHF 144-160 MHz Preselector (Minimum 3dB Noise Bandwidth 2MHz)
HFD8462	VHF 160-174 MHz Preselector (Minimum 3dB Noise Bandwidth 2MHz)
HFE8459	UHF 440-474 MHz Preselector (Minimum 3dB Noise Bandwidth 3MHz)



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General Accessories:	
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HPN9033	GR1225 and GR400 X-Pand Power Supply
HKPN4000	GR1225 and CDR700 230V Power Supply without Line Cord
HPN9005	GR500 Power Supply
HKPN4001	GR1225 and CDR500 230V Power Supply without Line Cord
HLN9455	GR1225 and GR400 X-Pand Battery Revert/Float Maintenance Charger
HLN9471	GR1225 Portable Carry Case
HMN3000	Desk Microphone (Black)
HLN9457_R	Hardware Kit for use with the Expanded Accessory Connector (includes 16 connector pins, (9) 8" wires with pins attached and an extra housing)
HLN9169	GR500 Wall & 19 Inch Panel Mount
NTN7373_R	Line Cord with US Plug for use with HKPN4000 and HKPN4001 Power Supply
NTN7374_R	Line Cord with Euro Plug for use with HKPN4000 and HKPN4001 Power Supply
NTN7375_R	Line Cord with UK Plug for use with HKPN4000 and HKPN4001 Power Supply
NTN9246	Line Cord with Argentina Plug for use with HKPN4000 and HKPN4001 Power Supply

GR1225 AdvantagePort Advantage™ Boards - Dealer Installed:	
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HLN9511	Quik-Call II Decode Advantage™ Board
HLN9403	Advantage™ Board Installation Kit - Quantity 1

Antennas - comes standard with a 100 foot cable.	
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TDD7544	150-158 MHz, 3dB Gain Antenna (requires 58-844807)
TDE7260	450-470 MHz, 3.8dB Gain Antenna (requires 58-844807)
5800844807	Type "N" Adapter - male to male connectors (required when using antennas listed above with any GR Series Repeater)

Manuals	
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6880904Z90	GR1225 Service Manual
6880905Z53	R1225 Service Manual
6880905Z54	GR400/GR500 X-Pand Service Manual

THE FOLLOWING ACCESSORIES ARE LIGHTENING PROTECTION RECOMMENDATIONS	
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Phone/Remote Line Suppressers	
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RRX4021	Single Line Suppressor
TRN4589	Dual Line Suppressor

AC Line Surge Protectors	
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RLN4264	120VAC, 15A 3-Prong Duplex Outlet Mounting
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Coaxial Cable In-Line Arrestors	
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RRX4025	Type "N" Connector
RRX4032	Tower Mounting Hardware

Coaxial Cable Ground Clamps	
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ST788	1/2" Jacketed Heliacx and Pipe or Ground Rod
ST853	7/8" Jacketed Heliacx and Pipe or Ground Rod - Extended Delivery