

Designed to link the Motorola®  
KVL 3000/3000+ Radio Key-loader  
with the GTS H8610-Li  
High Capacity Lithium Ion  
rechargeable battery





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## Introduction

The Patriot® KVL30 adapter (Figure 1) is designed to provide extended operational times by increasing the available battery capacity for the Motorola® KVL 3000/3000+ Radio Key-loader (Figure 2).

The Patriot® KVL30 adapter will key and latch onto the Motorola® KVL 3000 / 3000+ series Key-loader, and is designed for use with the GTS H8610-Li High Capacity Lithium Ion rechargeable battery (Figure 3) which provides power to the device, replacing the NTN 7394B 1200 mAh Ni/Cd battery pack.

A complete listing of compatible and approved rechargeable batteries as specified and approved by GTS Battery Services are listed in Table 1.

The Patriot® KVL30 adapter's compatible batteries can be recharged in the GTS Patriot® Multi-Chemistry, (Li-Ion, Ni/CD or Ni/MH) Charger line of products or other suppliers as specified and approved by GTS Battery Service are listed in Table 2.

This reference guide provides basic instructions on the set-up and use of the Patriot® KVL30. Many of the parameters discussed in this document may be updated in the field as required.

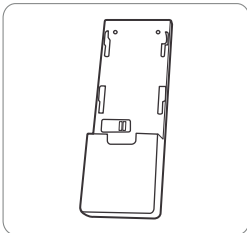


Figure 1

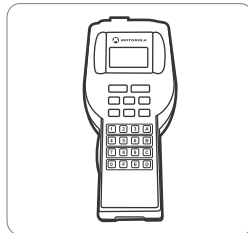


Figure 2

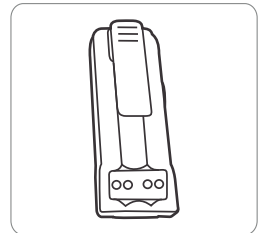


Figure 3

Global Technology Systems Inc. reserves the right to change, update and modify procedures and specifications without notice.

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## ■ Equipment Supplied

The equipment supplied is:

- One Patriot® KVL30 adapter
- One operation manual

## ■ Safety Guidelines

Before using the Patriot® HKVL30 adapter, please read all instructions and cautionary notations on the GTS battery, and on the radio host device.

NOTE: Never install the Patriot® KVL30 adapter onto the Motorola® KVL 3000/3000+ Radio Key-loader with the battery already attached. This can cause damage to the battery or device

## ■ Warning

- To reduce risk of injury only use authorized battery products with this device. Other non-approved batteries may cause personal injury and or damage to the equipment.
- To reduce risk of electric shock, never install the Patriot® KVL30 adapter onto the Motorola® KVL 3000/3000+ Radio Key-loader with the battery already attached
- Dispose of used batteries in accordance with your state or local hazardous material laws.
- Do not disassemble, incinerate, modify or short circuit the charger any battery or related components.

## ■ Product Specification

Dimensions

Length:	6.3" (161 mm)
Width:	2.18" (56 mm)
Height KVL interface:	0.182" (4.7 mm)
Height handle w/ latch:	0.960" (24.4 mm)
Weight:	-1/3 lbs (147 g) (without batteries)

## ■ KVL30 Installation

NOTE: Never install the Patriot® KVL30 adapter onto the Motorola® KVL 3000/3000+ Radio Key-loader with the battery already attached. This can cause damage to the battery or device

### Installation

1. To install the Patriot® KVL30 latches directly to the Motorola® KVL 3000/3000+ Radio Key-loader exactly as if installing the NTN 7394B 1200 mAh Ni/Cd battery pack. (See figure 1)
2. Align the Patriot® KVL30 guide rails over the KVL device
3. Slide the Patriot® KVL30 forward until latch is activated (See figure 2)



Figure 1



Figure 2

### Removal

1. To remove the Patriot® KVL30 from the Motorola® KVL 3000/3000+ Radio Key-loader is exactly as if removing the NTN 7394B 1200 mAh Ni/Cd battery pack.
2. Depress latch (located on rear device support) and pull the Patriot® KVL30 away from the device until guide rails are aligned and remove.

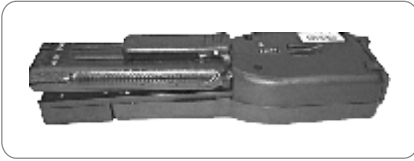


## ■ Battery pack Installation onto the Patriot® KVL30

NOTE: Never install the Patriot® KVL30 adapter onto the Motorola® KVL 3000/3000+ Radio Key-loader with the battery already attached. This can cause damage to the battery or device.

### Installation

1. To install the battery on to the Patriot® KVL30 is exactly as if installing the NTN 8610 battery packs to the radio.
2. Align the battery to the upper Patriot® KVL30 guide and lower battery in a pivot motion until batteries locking mechanism activates onto the Patriot KVL30.



### Removal

1. To remove the battery from the Patriot® KVL30 is exactly as if removing the NTN 8610 battery pack from the radio.
2. Depress battery latch and lift battery off pivoting towards the top of the Key-loader.



## ■ Table 1 Compatible Batteries

The following list is supported batteries that are approved for use with the Patriot® KVL30 adapter.

GTS batteries for Motorola XTS3000, XTS3500, XTS5000

Battery Model	Capacity	Chemistry
H8299-M (21)	2100 mAh	NiMH
H8299-M (27)	2700 mAh	NiMH
H8299-M (40)	4000 mAh	NiMH
H8294-C (17)	1700 mAh	NiCad
H8294-C	1500 mAh	NiCad
H8610-Li (38)	3800 mAh	Li

GTS batteries for the Motorola® HT1000, MT1000, JT1000, MTS2000, MTX8000, MTX9000  
 Motorola® batteries for Motorola® XTS3000, XTS3500, XTS5000

Battery Model	Capacity	Chemistry
NTN9862A	2000 mAh	Li
NTN8610B (IP)	1650 mAh	Li
NNTN4435B (IP)	2000 mAh	NiMH
NNTN4436B (IP)	2000 mAh	NiMH
NNTN4437B (IP) (RG)	2000 mAh	NiMH
NTN8299BR	1700 mAh	NiMH
NTN8923AR	1800 mAh	NiMH
RNN4006B	3500 mAh	NiMH
RNN4006AR	3500 mAh	NiMH
RNN4007AR (IS)	3500 mAh	NiMH
HNN9031B (IP)	1525 mAh	NiCad
NTN9032B (IP)	1525 mAh	NiCad
NTN8294BR	1525 mAh	NiCad
NTN9295AR	1525 mAh	NiCad
NTN8297AR (RG)	1525 mAh	NiCad



## ■ Table 1 Compatible Battery Chargers

The following list is of recommended chargers for batteries which are approved for use with the Patriot® KVL30 adapter as listed in table 1.

GTS Patriot® Multi-chemistry Charging Systems are compatible with all batteries listed in table 1.

Motorola® Impress Charging Systems are compatible with all batteries listed in table 1

## ■ Troubleshooting

If the Patriot® KVL30 does not properly function after you have followed these operating instructions:

- Check to insure that the battery is charged
- Check to insure that the Patriot® KVL30 is proper installed on to device
- Check to insure that the battery is charged
- Check to insure that the battery is proper installed on to device

## ■ Cleaning

Periodically wipe the charger with a dry lens tissue or other cleaning materials suitable for optical applications: such as eyeglasses

### CAUTION

*Do not pour, spray or spill any liquid into or onto the KVL30 Adapter.*

## ■ RF Devices

Global Technology Systems, Inc. products are designed to be compliant with the rules and regulations in the localities in which the products are sold and will be labeled as required. The limits are designed to provide reasonable protection against harmful interference when electronic devices are operated in a commercial environment.

## ■ Replacement Parts

Please contact:

**Global Technology Systems, Inc.,**  
551 Cochituate Road, Framingham,  
MA 01701 ■ 800.267.2711,  
In Europe call: 00800.5390.5390,  
[www.GTSpower.com](http://www.GTSpower.com)

## ■ Warranty and Support

For warranty and service information call 1-508-650-1172. Outside North America, please contact your local Global Technology Systems representative.

Global Technology Systems, Inc. products and devices are warranted against defects in workmanship and materials for a period of one year from the date of shipment. The product or device must remain unmodified and must be operated under normal and proper conditions.

The warranty is limited to repair or replacement at Global Technology Systems, Inc. option, with reasonable promptness after being returned and received by Global Technology Systems, Inc. These provisions do not extend the original warranty term for any product or device which was repaired or replaced.

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