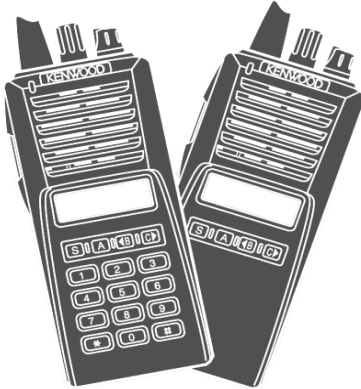


TK-480 / 481
800/900 MHz FM Portable Radios



All 80 series portables include:

- Antenna
- Belt Clip
- Universal Connector Cap
- Instruction Manual
- Standard Warranty: 2 Years*

* All Accessories / options: 1 Year

Purchase Battery & Charger separately

GENERAL FEATURES

- 2.5 W 800 MHz Models
- 2.5 W 900 MHz Models
- Trunked Format
- LTR® Trunked Systems
- Conventional Systems
- 32 Systems / 250 Groups
- System Scan
- List Type System Scan
- 10 Character Alphanumeric Aliases
- Lighted Dot Matrix LCD
- 3-Digit Sub-Display
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 2 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF/PF Keypad
- 500 mW Speaker Audio
- Companded Audio
- Encryption / ANI Board Control
- Emergency Call Features
- Emergency Man-Down Option
- DTMF Encode / Decode
- Time Out Timer
- Low Battery Alert
- Weather-sealed ACC Connector

- MIL-Spec Speaker Mic Option
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- Front Panel Test
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- Intrinsically Safe Option
- NPSPAC Option

CONVENTIONAL SYSTEMS

- QT / DQT
- Single Priority Group Scan
- Busy Channel Lockout

TRUNKED SYSTEMS

- Kenwood LTR® Features

FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging
- Emergency Status
- Caller ID Display
- Short Text Messages (Option)
- PC Serial Interface (Option)

--- Must Order **L-834** or **L-980** for Intrinsically Safe Option ---
* Approved for Classes I, II, III Division 1, Groups C, D, E, F, G and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations.

RADIO	LIST
800 MHz	
TK-480K3 806-825, 851-870 MHz 2.5W, LTR-32 Systems, CONV-250 CH.	525.00
TK-480K4 806-825, 851-870 MHz 2.5W, LTR-32 Systems, CONV-250 CH., with DTMF keypad	578.00
L-853 Install firmware & enable NPSPAC operation in TK-480 Note: Other required items: KPG-49D V2.00 or higher permits "per channel" NSPAC programming capability. NPSPAC and PassPort capability are not available in the same firmware option.	84.00
900 MHz	
TK-481K3 896-902, 935-941 MHz 2.5W, LTR-32 Systems, CONV-250 CH.	560.00
TK-481K4 896-902, 935-941 MHz 2.5W, LTR-32 Systems, CONV-250 CH. with DTMF keypad	595.00

Important Note:
The TK-480/481/980/981 only operate in "Trunked Format" (LTR & Conventional systems). These are not "Dual Format" radios like the TK-280/380/780/880 mobiles which operate in either Trunked Format (LTR & Conventional systems) or Conventional Format (traditional conventional channel organization with priority scan).

LTR® is a registered trademark of E.F. Johnson Co.

ANTENNAS	LIST
***** Call Kenwood Parts at 800-367-7514 to order the following (not available through the LMR Order Desk):	
T90-0636-25 Replacement Part: 800 MHz Whip Antenna for TK-480	31.04
T90-0640-25 Replacement Part: 900 MHz Whip Antenna for TK-481	31.98

BATTERIES AND CHARGERS		LIST
KNB-16A	1100 mAh, Ni-Cd battery	59.50
KNB-17A	1500 mAh, Ni-Cd battery	70.00
KNB-17BK	1500 mAh, Ni-Cd battery [Intrinsically Safe Option]	105.00
KNB-21N	1600 mAh, Ni-MH battery - requires KSC-24 charger	63.00
KNB-22N	2100 mAh, Ni-MH battery - requires KSC-24 charger	73.50
KNB-22NC	2100 mAh, Ni-MH battery - requires KSC-24 charger [Intrinsically Safe Option]	122.50
KBP-4	AA Alkaline Refillable Battery Pack (12 AA; 9V) cells not included	43.00
KSC-19	110 volt Regular rate single unit desk charger for KNB-16/17A/17B	36.75
KSC-19M	220 volt Regular rate single unit desk charger for KNB-16/17A/17B	36.75
KSC-24	110 volt Rapid rate single unit charger for KNB-14/15/16/17A/17B/20N/21N/22N/22NC	62.00
KSC-24E	220 volt Rapid rate single unit charger for KNB-14/15/16/17A/17B/20N/21N/22N/22NC	62.00
KMB-16	Six Unit Charger Adapter for the KSC-16/20/24/25 chargers (chargers not included)	173.00
KMB-23	Six Unit Charger Adapter for the KSC-16/20/24/25/32 chargers (chargers not included)	191.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15/17/19/30 chargers (chargers not included)	63.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16/18/20/24/25 chargers (chargers not included)	84.00
KVC-5A	Vehicular D.C. Charger for 80/90/5400 Portables with NiCd or NiMH Battery	357.00

CARRYING ACCESSORIES		LIST
KBH-10	Spring action belt clip	8.35
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	26.30
KLH-58BC	Bungi-cord for KLH-58/60/71/75/76	3.70
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back	22.00
KLH-75B	Heavy duty leather carrying case for TK-480/481 (Non DTMF keypad models)	44.25
KLH-76B	Heavy duty leather carrying case for TK-480/481 (DTMF keypad models)	44.25
KLH-85	Cordura Nylon carrying case for TK-480/481 (DTMF keypad models)	26.30
KLH-86	Cordura Nylon carrying case for TK-480/481 (Non DTMF keypad models)	26.30
KLH-92	Heavy duty leather carrying case for TK-480/481 (DTMF keypad models w/ KBP-4)	44.25
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for a Heavy-Duty Leather Case (KLH-75B/76B/78B/79B/92/122/123/133/148)	36.75
KWR-1	Water resistant bag	29.85

MICROPHONES & AUDIO ACCESSORIES		LIST
KEP-1	3.5mm earphone kit for KMC-25/26/41M/42WM Speaker Mics [Intrinsically Safe Approved Accessory]	52.50
KCT-30	2.5mm Audio Accessory Adapter for KEP-3/4 [Intrinsically Safe Approved Accessory]	64.00
KEP-3	30" Earphone kit w/ 2.5mm plug for KCT-30 [Intrinsically Safe Approved Accessory]	51.50
KEP-4	48" Earphone kit w/ 2.5mm plug for KCT-30 [Intrinsically Safe Approved Accessory]	54.75
KMC-25	MIL-SPEC, Noise canceling Speaker mic [Intrinsically Safe Approved Accessory]	96.50
KMC-41M	MIL-SPEC, IP54/55 Noise-canceling Speaker Mic	96.50
KMC-42WM	MIL-SPEC, IP67 (Immersion) Noise-canceling Speaker Mic Important Note: Portable radio does not have an IP67 Immersion option; meets MIL STD810 rain standards	114.00
KHS-11BE	2-wire palm mic w/earphone, universal connector (Beige) [Intrinsically Safe Approved Accessory]	156.50

MICROPHONES & AUDIO ACCESSORIES - CONT'D		LIST
KHS-11BL	2-wire palm mic w/earphone, universal connector (Black) [Intrinsically Safe Approved Accessory]	156.50
KHS-12BE	3-wire mini lapel mic w/earphone, universal connector (Beige) [Intrinsically Safe Approved Accessory]	184.00
KHS-12BL	3-wire mini lapel mic w/earphone, universal connector (Black) [Intrinsically Safe Approved Accessory]	184.00
KHS-14	Lt. Wt. Single muff headset w/boom mic & In-line PTT [Intrinsically Safe Approved Accessory]	126.00
KHS-15-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT [Intrinsically Safe Approved Accessory]	420.00
KHS-15-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT [Intrinsically Safe Approved Accessory]	368.00

OPTION MODULES		LIST
KCT-57MS	Man-Down Internal Tilt Switch (Non-Mercury) [Intrinsically Safe Approved Accessory]- Must be Kenwood installed for I.S. Order <u>L-1618</u> FleetSync® operations	22.00

Note: CIM-1000 (MDC1200/GE STAR ANI encode board is not offered for sales loose or for TK-480/481 install. Dealers should purchase direct from Cimmarron Technologies 800-487-7184 at www.cimtechcorp.com.

SERVICE RELATED ACCESSORIES		LIST
KPG-36AM	Programming interface cable	93.00
KCT-53UM	USB Adapter for KPG-xxAM DB9F Programming Interface Cables (DB9M - to - USB Type A connector)	86.00
KPG-49DK	Windows® Programming Software for TK-480/481/980/981	68.50
KPG-63DK	PassPort® Radio Programming Software V2.00 or higher	68.50
KPG-64DK	PassPort® ESN Field Installation Software	10.50
*****	Call Kenwood Parts at 800-367-7514 to order the following:	
E30-3325-05	Portable-to-Portable Cloning cable (For TK-190/290/390/480/481 Only)	65.00

INSTALLATION / TUNING CHARGES		LIST
L-826	TK-480/481 Programming (with basic TX/RX check)	17.00
L-834	Configure TK-480/481 for Intrinsically Safe Must order KNB-17BK	70.00
L-980	Configure TK-480/481 for Intrinsically Safe Must order KNB-22NC	70.00
L-836	Assemble KMB-16 with six KSC-24's (Rapid Rate, 120 Volt version only)	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-837	Install KNB-17A/17BK battery	0.00
L-853	Install firmware & enable NPSPAC operation in TK-480 Note: NPSPAC and PassPort capability are not available in the same firmware option.	84.00
L-876	Install PassPort® ESN / Firmware Option (1-24 qty.)	68.00
L-877	Install PassPort® ESN / Firmware Option (25-99 qty.)	68.00
L-878	Install PassPort® ESN / Firmware Option (100 qty.)	68.00
L-892	PassPort® ESN & Firmware disk (1-24 qty.)	68.00
L-893	PassPort® ESN & Firmware disk (25-99 qty.)	68.00
L-894	PassPort® ESN & Firmware disk (100 qty.)	68.00
L-1618	80/90 PORTABLE KCT-57MS INSTALLATION (FOR FLEETSYNC)	20.00

PassPort® for TK-480/481 Series Portables

LIST

PassPort® Options for NEW Radio Orders (Kenwood-installed)

Ordering Instructions

For 800/900 MHz models TK-480/481/980/981 new radio orders, the Kenwood-installed Passport® ESN / firmware option is available for a charge: Order the ESN/Firmware option per L-876, L-877 or L-878.

Other required items:

KPG-63D Radio Programming Software: the KPG-63D is required to program all PassPort® parameters for all PassPort® enabled radios, the KPG-63D will not program LTR or conventional parameters. KPG-49D is required only if LTR or conventional systems are to also be programmed in the PassPort® radio.

KPG-63DK	PassPort® Radio Programming Software V2.00 or higher	68.50
L-876	Install PassPort® ESN options and firmware in TK-480/481/980/981 · 1-24 qty. lot price; Price is per ESN · The latest PassPort® radio firmware will be installed	68.00
L-877	Install PassPort® ESN options and firmware · 25-99 qty. lot price; Price is per ESN · The latest PassPort® radio firmware will be installed	68.00
L-878	Install PassPort® ESN options and firmware · 100 qty. lot price; Price is per ESN · The latest PassPort® radio firmware will be installed	68.00

PassPort® Options for Dealer/Operator Field Conversions (Field-installation kits)

Ordering Instructions

1. **Order the ESN key/firmware Labor Code options:** L-892 or L-894; specify model radio(s).

Pre-loaded ESN hardware key(s) with the ordered quantities of ESN's & a PassPort® radio firmware diskette will be shipped (100 ESN's maximum per hardware key). Important: Any depleted key previously registered to a technicians computer must be retained to register any new purchased key to the computer; please retain the old key until the new one is received.

2. **Other required items:**

a. KPG-64D: PassPort® ESN Install Program: the KPG-64D only needs to be ordered one time. It is re-useable for subsequent ESN orders (unless an upgrade is recommended).

b. KPG-63D Radio Programming Software: required to program all PassPort® parameters for all PassPort® enabled radios, the KPG-63D will not program LTR or conventional parameters.

c. KPG-49D Radio Programming Software: required only if LTR or conventional systems are also to be programming in the PassPort® radio.

3. **The KPG-49D** radio programming software is required for LTR & conventional site programming.

Note: Sales of L-892, 893, 894 are NOT refundable. Purchaser has a 72 hour limit after receipt to report suspected hardware key defects or ESN shortages to Kenwood engineering, Suwanee office 678-474-4700

L-892	PassPort® ESN Options & PassPort® firmware disk (SPECIFY RADIO MODEL) · 1-24 qty. lot price; Price is per ESN	68.00
L-893	PassPort® ESN Options & PassPort® firmware disk (SPECIFY RADIO MODEL) · 25-99 qty. lot price; Price is per ESN	68.00
L-894	PassPort® ESN Options & PassPort® firmware disk (SPECIFY RADIO MODEL) · 100 qty lot price; Price is per ESN · Maximum 100 ESN options per hardware key	68.00
SRB08698	Hardware Key (Maximum 100 ESNs per hardware key) - requires KPG-64D to download PassPort® ESN options into an 80-Series radio. Note: 1)The hardware key is registered to the computer that it is first used on; it cannot be used on other computers. 2) Empty hardware keys can be returned for 50% credit; call the LMR order desk for RMA #. 3) Retain depleted keys until a new one is received. It will be required to register the new key to the same computer.	87.50
KPG-64DK	PassPort® ESN Field Installation Software V1.12 · V1.12: supercedes V1.11; upgrade to V1.12 recommended for improved ESN file database features	10.50
KPG-63DK	PassPort® Radio Programming Software V2.00 or higher	68.50