Land-Mobile Price List

TK-190

Low Band Portable

Model	*Description*	*List*
VHF	***Heavy-duty Spring-action Belt Clip, Channel Selector Mechanical stop and dressing plate included. Antenna and Battery not included.***	
TK-190K	VHF Low Band 29.7 – 37.0 MHz 6W, 16 Channels	$642.00
TK-190K2	VHF Low Band 35.0 – 50.0 MHz 6W, 16 Channels	642.00

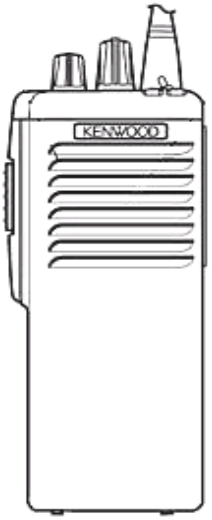
TK-190 FEATURES:

16 Channels
6 W Transmitter Power Output
Seven Character Alphanumeric LCD
Two Digit Channel Display
Two Color Tri-State LED
Mechanical Channel Selector with Stops
Volume Knob
Programmable Power Per Channel
MIL-STD 810 C, D, & E
Weather-Sealed Accessory Connector
Die-Cast Chassis
Noise-Canceling Internal Microphone
MIL-STD Noise Canceling Speaker Mic
High/Low Volume Feature
Single Priority Scan
Home Channel
Programmable Toggle Switch
Five Programmable Radio Keys
Two Programmable Speaker Mic Keys
Key Lock

Two Tone Decode
DTMF Decode
DTMF Dead Beat Disable (DBD)
DTMF PTT ANI Encode
QT/DQT Tone/Digital Coded Squelch
Operator Selectable Tone (QT/DQT)
Encryption Board Port/Control
Digital ANI Board Port/Control
Emergency Key & Call Channel Features
Data Password
Cloning
PC Programming and Tuning
Flash ROM
Intrinsically Safe Option
Unavailable frequencies:
TK-190K (29.7 - 37.0 MHz model): 33.60 MHz
TK-190K2 (35.0 - 50.0 MHz model): 42.00 MHz

Included Items

Spring Action Belt Clip



*** If this transceiver is programmed for more than one channel, the transmit frequencies must be within a 500 kHz range.***

USTC

Important Notice
Regarding the TK-190 Model Radios!

Use only a dealer- adjusted Kenwood KRA-21 antenna with this TK-190 transceiver.

If this transceiver is programmed for more than one channel, the transmit frequencies must be within a 500 kHz range.

The physical condition of the antenna may affect the radio's performance.

If the original KRA-21 antenna is worn, bent or damaged, immediately have your Kenwood authorized dealer replace the antenna with a new, properly adjusted KRA-21 antenna.

Failure to follow these instructions may cause poor performance, damage to your transceiver, and may also place excess transmitter energy on the metal portions of your radio, which could make the transceiver uncomfortable to handle when transmitting.

When transmitting, if your hand feels uncomfortable, contact your Kenwood dealer for a transceiver inspection, and possible antenna replacement.

Accessories for the TK-190 Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-21[1]	Tunable VHF Low Band helical antenna 29.7-50MHz. (Note: Antenna band width is 1 MHz.)	$40.00
BATTERIES AND CHARGERS		
KNB-17A	1500 mAh, 7.2 VDC (4/5W), NiCd battery	67.00
KNB-17BK[2]	Intrinsically Safe Battery 1500 mAh, 7.2 VDC (4/5W), NiCd battery **[I.S. Certified]**	100.00
KNB-21N[7]	1600 mAh NiMH (more than 10 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	60.00
KNB-22N[7]	2100 mAh NiMH (more than 13 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	70.00
KNB-22NC[7,8]	2100 mAh NiMH battery - requires KSC-24 charger **[Intrinsically Safe Approved Accessory] - must order L-979.**	117.00
KBP-4[3]	AA Alkaline Refillable Battery Pack for TK-190/290/390/280/380 (12 AA Alkaline 9V) **Battery cells not incl.**	41.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-32,25,24 &16 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-19	Regular rate single unit desk charger for KNB-16/17A/17B	35.00
KSC-19M	220 volt regular rate single unit desk charger for KNB-16/17A/17B	35.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,19,30 (chargers not included)	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,24,25 (chargers not included)	80.00
KVC-5A[4]	Vehicular D.C. Charger for 80/90 Series Portables Note: Compatible with the KNB-16/17A/17B/21N/22N/22NC	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS[5]	Swivel belt loop with D-Ring	25.00
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back for a leather case	21.00
KLH-78B	Heavy duty leather carrying case for TK-190/290/390	42.00
KLH-88	Cordura Nylon carrying case for TK-190/290/390	25.00
MICROPHONE AND SPEAKERS		
KCT-30[2]	2.5mm Audio Accessory Adapter for KEP-3/4	61.00
KEP-1[2]	3.5mm earphone kit for KMC-25/26, KMC-10/11 Speaker Mics (Black only **[I.S. Certified]**	50.00
KEP-3[2]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) **[I.S. Certified]**	49.00
KEP-4[2]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) **[I.S. Certified]**	52.00
KHS-11BE[2]	2-wire palm mic w/earphone, universal connector (Beige) **[See Note A] [I.S. Certified]**	149.00
KHS-11BL[2]	2-wire palm mic w/earphone, universal connector (Black) **[I.S. Certified]**	149.00
KHS-12BE[2]	3-wire mini lapel mic w/earphone, universal connector (Beige) **[See Note A] [I.S. Certified]**	175.00
KHS-12BL[2]	3-wire mini lapel mic w/earphone, universal connector (Black) **[I.S. Certified]**	175.00
KHS-14[2]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk) **[I.S. Certified]**	120.00
KHS-15-BH[2]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; **[See Note B] [I.S. Certified]**	400.00
KHS-15-OH[2]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db **[See Note B] [I.S. Certified]**	350.00
	Note A: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time. **Note B:** Heavy-duty headsets; Allow min. 4 weeks delivery time.	
KMC-25A[2, 6]	MIL-SPEC, Noise canceling Speaker mic (For TK-190 low band use) **[I.S. Certification]**	92.00

Accessories for the TK-190 Series Radios

Model	*Description*	*List*

QE-2 G-Star®/ MDC1200 DIGITAL ANI MODULES by Cimarron Technologies

How to Order: Please see QE-2 Information and Order Sheet available from LMR Order Desk

1. Select the proper model/ quantity of radios, desired G-Star (L-901) or MDC-1200 (L-902) ANI format labor code.
2. Refer to the "QE-2 MDC-1200 Information/Order Sheet" available from the LMR Order Desk; select the ID format, ID codes and other feature options
3. Fax the Order Sheet with your radio order to your authorized Kenwood Rep or LMR Order Desk

All order sheet items must be filled out even if the feature option is "disabled" (incomplete Order Sheets will not be processed).

a. Orders are only accepted on new radio purchases. No retrofits, module-only or "tune & ship loose" orders are accepted.

b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

Notes:

Emergency "Man-down" features require an installed CAE-3 internal man-down tilt switch option (portables only).

Dealers can purchase a QE-2 programmer , Model QPF-2, direct from Cimarrron Technologies Call 800-487-7184, website: www.cimtechcorp.com.

QE-2	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down Important: Kenwood factory Install Only –Order L-901 or L-902**[I.S. Certified]**	128.00
CAE-3[2]	Emergency Man-Down Internal Tilt Switch (mercury switch) [Factory Install Only – Must order L-845]. The CAE-3 is only sold for use w/Cimarron ANI Option modules for man-down emergency. **Note:** Not Sold, Installed without QE-2.**[I.S. Certified]**	21.00

Transcrypt Secure Technologies Encryption

The following Transcrypt Secure Technologies encryption accessories (available from Transcrypt) and TK-190/290/290 combination when installed according to Transcrypt instructions meet Intrinsically Safe Classes I, II & III, Div.1, Groups C, D,E, F & G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations:

- SC20-400
- SC20-416-12
- SC20-430-12
- SC20-460-12
- SC20-DES

For more information on Transrcypt encryption please visit their website at www.transcryptsecure.com or contact them at:

Transcrypt Secure Technologies
4800 NW 1st Street, Suite 100
Lincoln, NE 68521
Phone: 402-474-4800
Fax: 402-479-8472

SERVICE RELATED ACCESSORIES

KPG-36	Programming interface cable	N/A
KPG-59D	Program Software for TK-190/6110 (Version 2.00)	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
E30-3325-05	Portable-to-Portable Cloning cable (For TK-290/390/480/481 Only)	65.00

Installation / Tuning Charges for the TK-190 Series Radios

Model	*Description*	*List*
L-836	Assemble KMB-16 with six KSC-20's/24's	15.00
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-835	Configure TK-190/290/390 for Intrinsically Safe**(Must Order KNB-17BK)** **Note:** Please see end of this pricepages section for a list of Intrinsically Safe Accessories for this radio.	70.00
L-979	Configure TK-190/290/390 (KNB-22NC) for Intrinsically Safe**(Must Order KNB-22NC)**	70.00
L-837	Install KNB-17A/17BK battery	0.00
L-845	Install CAE-3 (portable only)	9.00
L-870	Simultaneous transpond and alert feature up-grade for 90-series mobiles & portables	50.00
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00
L-911	Tune TK-190/TK-6110	25.00
L-914	Cut KRA-21 Low Band Antenna	10.00

IMPORTANT INSTRUCTIONS

[1]KRA-21 Antenna Caution- the TK-190 antenna must be cut per the antennas cutting chart and instructions. Failure to do so will result in a poorly matched antenna, poor performance and most probably excessive and damage in the transmitters final power amplifier circuit. The antenna bandwidth is only 1 MHz. The KRA-21 low band antenna can be between 6 to 12 inches long (dependent on frequency cut). It is recommended that a KLH-6SW leather swivel belt loop with a KLH-78 or KLH-90 carrying case be used to provide the greatest comfort, freedom of movement (especially when entering or exiting vehicles) and for better transmit and receive performance. When using a KMC-25A speaker microphone, tilting the radio slightly to provide a minimum 4" spacing between the wearers body and the tip of the KRA-21 antenna will optimize receive and transmit performance. A KLH-6SW swivel loop and KLH-78/90 carrying case can help facilitate this orientation.

[2] **Important Note Regarding Intrinsically Safe Certification:** Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. withc proper Kenwood certification can result in serious safety and/or legal liability issues for your company. **For intrinsically safe models TK-[190]/280/380/290/390/480/481: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incentive Class I, Div. 2, Groups C, D hazardous locations.**

[3] AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.

Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained. Nominal Life (hrs.) 5-5-90 duty cycle, battery save off, scan off. See chart below:

Transmit Power	1W	2W	4/5W
Nominal Battery Life (hrs.)	18	11.5	4

[4] **KVC-5A & KVC-6A has the following features**: Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LEI (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[5] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N99-2004-05.

[6] KMC-25 is not compatible with the TK-190 due to the effects of RF on it at low band frequencies; the KMC-25A is the compatible model. The KMC-26 Speaker microphone with antenna connector CANNOT be used due to the inadequate ground plane properties on a speaker microphone at low band frequencies (the TK-190 does not have an RF pin on its accessory connector).

[7] **Important Note regarding KNB-21N/22N/22NC:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

[8] Meets Intrinsically Safe requirements of Classes I, II, III, Division 1, Groups C, D, E, F, G, & Non-Incendive Class I, Division 2, Gropus C, D hazardous locations. The KNB-22NC is labeled "KNB-22NC is an authorized alternate to KNB-17B" and therefore the KNB-22NC can be sold into existing portable fleets using KNB-17BK and not compromise the portables I.S. certification. The KNB-22NC does NOT require re-adjustment of the Low Battery Warning settings. Portables previously inspected & readjusted by Kenwood Tuning Dept. or the dealership for KNB-17B Low Battery Warning should be re-adjusted for the Low Battery Warning factory default setting (per the service manual).

KENWOOD

Kenwood USA Corporation
Communications Sector

Jan-05
Last Revised: 1/01/05

Land-Mobile Price List

TK-260G/360G

Compact VHF / UHF Synthesized Portable Radios

Model	*Description*	*List*
VHF	***Antenna, battery and charger not included with -GK models; Spring Action Belt Clip included***	
TK-260GK	150-174 MHz 5W, 8 Ch.	$266.00
TK-260GK2	136-150 MHz 5W, 8 Ch.	$266.00
UHF	***Antenna, battery and charger not included with -GK models; Spring Action Belt Clip included***	
TK-360GK	450-470 MHz 4W, 8 Ch.	266.00
TK-360GK2	470-490 MHz 4W, 8 Ch.	266.00
TK-360GK3	490-512 MHz 4W, 8 Ch.	266.00
TK-360GK4	403-430 MHz 4W, 8 Ch.	266.00

TK-260G/360G FEATURES:

8 Channel Capacity
12.5/15 or 25/30 kHz Channel Spacing
12.5 / 25 kHz Channel Spacing (per channel)
MIL-STD 810 C, D, & E
High /Low Power per Channel
Built-in Companded Audio
QT/DQT
2-Tone Decode & Encode
DTMF ANI Encode
DTMF Auto-Dial Memory
Smart Trunk II Omni Option
Key Lock Feature
Busy Channel Lockout

Talk Around
Time Out Timer
Built-in Speaker Mic jack
2 Color LED indicators
Power Saver Mode
Low Battery Alert
PC Tuning
Flash ROM
TK-260/260G/360/360G Intrinsically Safe Models Not Available
Frequency Coordination Capability[5]

Includes:
KBH-8 Spring Action Belt Clip

KENWOOD

Kenwood USA Corporation

Jan-05

Last Revised: 1/01/05

Accessories for the TK-260G/360G Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz	$17.00
KRA-14M2	VHF helical antenna 162-174 MHz	17.00
KRA-14M3	VHF helical antenna 136-150 MHz	17.00
KRA-15AM	UHF whip antenna 450-490 MHz	17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-15AM3	UHF whip antenna 403-430 MHz	17.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 136-150 MHz	13.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
KRA-17M3	UHF stubby antenna 403-430 MHz	13.00
BATTERIES AND CHARGERS		
KBP-1	KNB-14 size 6 cell AA Alkaline pack, black (alkalines not incl.) **For 1 Watt Use Only @ 4 hrs. 5-5-90 duty**	20.00
KNB-14	600 mAH, 7.2 VDC (4/5W), Nicad battery	37.00
KNB-15A	1100 mAH, 7.2 VDC (4/5W) extended capacity Nicad battery	47.00
KNB-20N[6]	1600 mAH NiMH, 11 hours life @ 5-5-90 (KSC-24 charger required) **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases. Intrinsically Safe version NOT available.	47.00
KMB-14	Six Unit Charger Adapter for the KSC-15/16/17/18/19 (chargers not included)	165.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KSC-15	Regular rate single unit desk charger for KNB-14/15	28.00
KSC-15M	220 volt Regular rate single unit desk charger for KNB-14/15	28.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,17,19 (chargers not included) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24 (chargers not included) **Note:** Compatible with NiMH batteries (KNB-20N/21N/22N with KSC-24) & NiCd batteries	80.00
KVC-6[1]	Vehicular D.C. Charger for 60/60G/70/70G/72G/73G Portables **Note:** The KVC-6 is NOT compatible with the KNB-20N NiMH battery; it is only compatible w/NiCd battery packs. A new model, KVC-6A, for both NiCd & NiMH batteries ETA TBD.	340.00
CARRYING ACCESSORIES		
KBH-8[2]	Spring action belt clip - Same as Supplied (See Important Note 2 below)	8.00
KBH-8DS[2]	Swivel belt loop with D-Ring	25.00
KLH-58BC	Bungi-cord for KLH-58/60/70/71/75/76	3.50
KLH-70B	Heavy duty carrying case w/bungi-cord for TK-260/260G/360/360G	42.00
KLH-87	Cordura nylon carrying case (black) for TK-260/260G/360/360G	25.00
KLH-6SW	Swivel belt loop / detachable swivel back for KLH-58/60/70/71/75/76/78/79/83/112	21.00
KWR-1	Water resistant bag	29.00
INSTALLATION ACCESSORIES		
ST-865KW4[3]	SmarTrunk II™ Logic Board	115.00

SmarTrunk II™ is a registered trademark of SmarTrunk Systems Inc.

Accessories for the TK-260G/360G Series Radios Cont'd…

Model	*Description*	*List*
MICROPHONE AND SPEAKERS		
KEP-2	2.5mm earphone kit for KMC-17 Speaker Mics (Black only). [KEP-2 & KMC-21 are not plug-compatible].	$50.00
KHS-1	Headset with VOX/PTT (light-duty use)	62.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	350.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	320.00
KHS-7	Single muff headset w/boom mic (black)	67.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT (black)	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KMC-17	Speaker microphone (Built-in 2.5mm miniature earphone jack)	82.00
KMC-21	Compact speaker microphone	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface cable (powered by P.C.s serial port)	N/A
KPG-56D	Programming Software for (TK-260G/270G/360G/370G) "G" Models Only	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
C807027-05	KHS-7 Foam mic windscreen, 5 pcs per pack	6.80
C807028-05	KHS-7 Foam ear cushion, 2 pcs per pack	6.50
C100733	KHS-8/9 Noise attenuating kit, 1 set per pack (Foam ear tips pieces)	4.00
C100693-2	KHS-8BL/9BL Acoustic tube replacement kit, black	16.35
C100693-19	KHS-8BE/9BE Acoustic tube replacement kit, beige (Clear coiled tubing)	16.35
C100569-2	KHS-8BL/9BL Replacement eartips, 10 per pack, black	27.48
C100569-19	KHS-8BE/9BE Replacement eartips, 10 per pack, beige (Recommended for sanitary purposes)	10.00
C100784[4]	KHS-7/8/9 Accessory clamp* **(For TK-360 only)**	6.50
E05-0256-25	Screw Mount-to-BNC Adapter	14.80

Installation / Tuning Charges for TK-260G/360G Series Radios

Model	*Description*	*List*
L-804	Tune TK-260/260G/360/360G	$25.00
L-805	Install KNB-14/15A Battery	0.00
L-820	Assemble KMB-14 with six KSC-15's (120 volt versions only!)	15.00
L-821	Assemble KMB-14 with six KSC-16's (120 volt versions only!)	15.00
L-836	Assemble KMB-16 with six KSC-20's/KSC-24's	15.00
L-909	Install ST-865KW4 (in 60G/70G portables)	20.00

IMPORTANT NOTES:

[1] **KVC-5 & KVC-6 has the following features**: Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[2] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N35-2610-45 (for TK-260/360 & Part #N99-2012-05 for TK-260G/360G).

[3] ST-865KW4/ST-909 - compatible with production lots starting Feb. 2000; Serial number 111xxxxx or higher (carton stamped "D"). These are not replacements for the ST-865KW2/ST-908 SmarTrunk II products for the 60/62-Series mobiles and 60/70-Series portables. For detailed information on SmarTrunk II- Kenwood radio features and logic controller information visit SmarTrunk Inc.'s web site for informative downloads such as the "ST-865KW4 SmarTrunk II Installation and Operation Manual for Kenwood "G" Series Transceivers" and the SmarTrunk II Digital Trunking System - System Overview manual.

[4] The radio connector plug on the KHS-7/8/9 accessories are larger than other Kenwood audio accessories. If needed, these clamps can be used as replacements for the standard retainer clamp that comes with the portable radio.

[5] Frequency Coordination Capability Notes: The new 60G/70G series portable as well as all other Kenwood analog FM radio equipment are not designed to reject frequencies at less than 12.5 kHz (UHF) or 15 kHz (VHF) spaced from older channels:

UHF: 12.5/25 kHz channel spacing (5, 6.25, 7.5 kHz PLL Ch. Stepping)
VHF: 15/30 kHz channel spacing (2.5, 5, 6.25, 7.5 kHz PLL Ch. Stepping)

Please note that the channel stepping capability only means the radio is programmable to most all the available FCC frequencies, however the receiver and transmitter are only designed to operate in the aforementioned channel spacing environments. It should be especially noted that the new VHF interstitial offset channels created by FCC PLMR band “refarming” are 7.5 kHz offset from original channels. These 7.5 kHz interstitial offset channels are overlapped by the occupied bandwidth of both the next higher and lower adjacent channels. Therefore, these channels require very careful adjacent channel frequency coordination. Licensees should question any coordination recommendation for the VHF High Band 7.5 kHz offset interstitial frequencies especially if they are located in or around a metropolitan area with heavy VHF usage.

[6] **Important Note regarding KNB-20N:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

KENWOOD

Jun-05

Last Revised: 06/01/05

NOTE: All models available through September 2005

Land-Mobile Price List

TK-270G/370G

Compact VHF / UHF Synthesized Portable Radios

Model	*Description*	*List*
VHF	***Antenna, battery, and charger not included; Spring Action Belt Clip included.***	
TK-270GK	150-174 MHz 5W, 128 Ch. Built-in DTMF	$459.00
TK-270GK2	136-150 MHz 5W, 128 Ch. Built-in DTMF	459.00
UHF	***Antenna, battery, and charger not included; Spring Action Belt Clip included.***	
TK-370GK	450-470 MHz 4W, 128 Ch. Built-in DTMF	459.00
TK-370GK2	470-490 MHz 4W, 128 Ch. Built-in DTMF	459.00
TK-370GK3	490-512 MHz 4W, 128 Ch. Built-in DTMF	459.00
TK-370GK4	403-430 MHz 4W, 128 Ch. Built-in DTMF	459.00

TK-270G/370G FEATURES:

128 Channel Capacity
Scan with Priority
8 Character Alpha Display
Back-lit Keypad
Operator Selectable QT/DQT (OST)
12.5/15 or 25/30 kHz Channel Spacing
12.5 / 25 kHz Channel Spacing (per channel)
MIL-STD 810 C, D, & E
High /Low Power per Channel
Built-in Companded Audio
QT/DQT
2-Tone Decode & Encode
DTMF ANI Encode
DTMF Auto-Dial Memory
Smart Trunk II Omni Option
Key Lock Feature
Busy Channel Lockout
Talk Around
Time Out Timer
Built-in Speaker Mic jack
2 Color LED indicators
Power Saver Mode
Low Battery Alert
PC Tuning
Flash ROM
TK-270G/360G Intrinsically Safe Models Not Available
Frequency Coordination Capability4

NOTE: All models available through September 2005

Accessories for the TK-270G/370G Series Radios

Model	Description	List
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz	$17.00
KRA-14M2	VHF helical antenna 162-174 MHz	17.00
KRA-14M3	VHF helical antenna 136-150 MHz	17.00
KRA-15AM	UHF whip antenna 450-490 MHz	17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-15AM3	UHF whip antenna 403-430 MHz	17.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 136-150 MHz	13.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
KRA-17M3	UHF stubby antenna 403-430 MHz	13.00
BATTERIES AND CHARGERS		
KBP-1	KNB-14 size 6 cell AA Alkaline pack, black (alkalines not incl.)**For 1 Watt Use Only @ 4 hrs. 5-5-90 duty**	20.00
KNB-14	600 mAH, 7.2 VDC (4/5W), NiCd battery	37.00
KNB-15A	1100 mAH, 7.2 VDC (4/5W) extended capacity NiCd battery	47.00
KNB-20N[5]	1600 mAH NiMH, 11 hours life @ 5-5-90 (KSC-24 charger required) **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases. Intrinsically Safe version NOT available.	47.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-**25** rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-15	Regular rate single unit desk charger for KNB-14/15	28.00
KSC-15M	220 volt Regular rate single unit desk charger for KNB-14/15	28.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,17,19 (chargers not included) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24,25 (chargers not included) **Note:** Compatible with NiMH batteries (KNB-20N/21N/22N with KSC-24) & NiCd batteries	80.00
KVC-6A[1]	Vehicular D.C. Charger for 60/60G/70/70G/72G/73G Portables **Note:** compatible with the NiMH battery (KNB-20N) and NiCd battery packs.	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS[2]	Swivel belt loop with D-Ring	25.00
KLH-58BC	Bungi-cord for KLH-58/60/70/71/75/76	3.50
KLH-6SW	Swivel belt loop / detachable swivel back for a leather case	21.00
KLH-71C	Heavy duty carrying case w/bungi-cord for TK-270/270G/370/370G	42.00
KLH-98	Cordura nylon carrying case w/swivel beltloop (black) for TK-270/270G/370/370G	35.00
KWR-1	Water-Resistant Bag	29.00
INSTALLATION ACCESSORIES		
ST-865KW4[3]	SmarTrunk II™ Logic Board **(for 60G/70G/72G portables & 62G/60G mobiles)**	115.00

SmarTrunk II™ is a registered trademark of SmarTrunk Systems Inc.

NOTE: All models available through September 2005

Accessories for the TK-270G/370G Series Radios Cont'd…

Model	Description	List
MICROPHONE AND SPEAKERS		
KEP-2	2.5mm earphone kit for KMC-17 Speaker Mics (Black only).	$50.00
KHS-1	Headset with VOX/PTT (light-duty use)	62.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	350.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	320.00
KHS-7	Single muff headset w/boom mic (black)	67.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT (black)	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KMC-17	Speaker microphone (Built-in 2.5mm miniature earphone jack)	82.00
KMC-21	Compact speaker microphone	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface cable (powered by P.C.s serial port)	N/A
KPG-56DK	Programming Software for 60G/70G/72G Portables & 60G/62G Mobiles Models Only	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
C807027-05	KHS-7 Foam mic windscreen, 5 pcs per pack	6.80
C807028-05	KHS-7 Foam ear cushion, 2 pcs per pack	6.50
C100733	KHS-8/9 Noise attenuating kit, 1 set per pack (Foam ear tips pieces)	4.00
C100693-2	KHS-8BL/9BL Acoustic tube replacement kit, black	16.35
C100693-19	KHS-8BE/9BE Acoustic tube replacement kit, beige (Clear coiled tubing)	16.35
C100569-2	KHS-8BL/9BL Replacement eartips, 10 per pack, black	27.48
C100569-19	KHS-8BE/9BE Replacement eartips, 10 per pack, beige(Recommended for sanitary purposes)	10.00
E05-0256-25	Screw Mount-to-BNC Adapter	14.80

Installation / Tuning Charges for TK-270G/370G Series Radios

Model	Description	List
L-804	Tune TK-270/270G/370/370G/373G	$25.00
L-805	Install KNB-14/15A Battery	0.00
L-836	Assemble KMB-16 with six KSC-20's/KSC-24's	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-909	Install ST-865KW4 (in 60G/70G/72G portables)	20.00

IMPORTANT INSTRUCTIONS

[1] **KVC-5 & KVC-6 has the following features**: Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trick charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[2] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N35-2610-45 (for TK-270/370 & Part #N99-2012-05 Part # N99-2012-05 for 60G/70G/72G Portables.

[3] ST-865KW4/ST-909 - compatible with production lots starting Feb. 2000; Serial number 111xxxxx or higher (carton stamped "D"). These are not replacements for the ST-865KW2/ST-9(SmarTrunk II products for the 60/62-Series mobiles and 60/70-Series portables. For detailed information on SmarTrunk II- Kenwood radio features and logic controller information visit SmarTrunk Inc.'s web site for informative downloads such as the
"ST-865KW4 SmarTrunk II Installation and Operation Manual for Kenwood "G" Series Transceivers" and the SmarTrunk II Digital Trunking System - System Overview manual.

[4] Frequency Coordination Capability Notes: The new 60G/70G series portable as well as all other Kenwood analog FM radio equipment are not designed to reject frequencies at less than 12.5 kHz (UHF) or 15 kHz (VHF) spaced from older channels:

UHF: 12.5/25 kHz channel spacing (5, 6.25, 7.5 kHz PLL Ch. Stepping)
VHF: 15/30 kHz channel spacing (2.5, 5, 6.25, 7.5 kHz PLL Ch. Stepping)

Please note that the channel stepping capability only means the radio is programmable to most all the available FCC frequencies, however the receiver and transmitter are only designed to operate in the aforementioned channel spacing environments. It should be especially noted that the new VHF interstitial offset channels created by FCC PLMR band "refarming" are 7.5 kHz offset from original channels. These 7.5 kHz interstitial offset channels are overlapped by the occupied bandwidth of both the next higher and lower adjacent channels. Therefore, these channels require very careful adjacent channel frequency coordination. Licensees should question any coordination recommendation for the VHF High Band 7.5 kHz offset interstitial frequencies especially if they are located in or around a metropolitan area with heavy VHF usage.

[5] **Important Note regarding KNB-20N:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

Land-Mobile Price List

TK-272G/372G

Compact Synthesized VHF/UHF FM Portables

Model	Description	List
VHF	***Includes KNB-15ABK battery, KBH-8 spring belt clip, and KSC-23 regular rate charger***	
TK-272GK1SK	150-174 MHz 5W, 32 Ch., w/ 110V charger (Available through March 2006)	$325.00
TK-272GK1SM	150-174 MHz 5W, 32 Ch., w/ 220V charger	$325.00
TK-272GK2SK	136-150 MHz 5W, 32 Ch., w/ 110V charger (Available through September 2005)	$325.00
TK-272GK2SM	136-150 MHz 5W, 32 Ch., w/ 220V charger	$325.00
VHF	***Includes KNB-15ABK battery, KBH-8 spring belt clip, and KSC-16BK rapid rate charger***	
TK-272GK1RK	150-174 MHz 5W, 32 Ch., w/ 110V charger (Available through March 2006)	358.00
TK-272GK1RM	150-174 MHz 5W, 32 Ch., w/ 220V charger	358.00
TK-272GK2RK	136-150 MHz 5W, 32 Ch., w/ 110V charger (Available through September 2005)	358.00
TK-272GK2RM	136-150 MHz 5W, 32 Ch., w/ 220V charger	358.00
UHF	***Includes KNB-15ABK battery, KBH-8 spring belt clip, and KSC-23BK regular rate charger***	
TK-372GK1SK	450-470 MHz 4W, 32 Ch., w/ 110V charger (Available through March 2006)	325.00
TK-372GK1SM	450-470 MHz 4W, 32 Ch., w/ 220V charger	325.00
TK-372GK2SK	470-490 MHz 4W, 32 Ch., w/ 110V charger (Available through December 2005)	325.00
TK-372GK2SM	470-490 MHz 4W, 32 Ch., w/ 220V charger	325.00
TK-372GK3SK	490-512 MHz 4W, 32 Ch., w/ 110V charger (Available through March 2006)	325.00
TK-372GK3SM	490-512 MHz 4W, 32 Ch., w/ 220V charger	325.00
TK-372GK4SK	403-430 MHz 4W, 32 Ch., w/ 110V charger (Available through December 2005)	325.00
TK-372GK4SM	403-430 MHz 4W, 32 Ch., w/ 220V charger	325.00
UHF	***Includes KNB-15ABK battery, KBH-8 spring belt clip, and KSC-16BK rapid rate charger***	
TK-372GK1RK	450-470 MHz 4W, 32 Ch., w/ 110V charger (Available through March 2006)	358.00
TK-372GK1RM	450-470 MHz 4W, 32 Ch., w/ 220V charger	358.00
TK-372GK2RK	470-490 MHz 4W, 32 Ch., w/ 110V charger (Available through December 2005)	358.00
TK-372GK2RM	470-490 MHz 4W, 32 Ch., w/ 220V charger	358.00
TK-372GK3RK	490-512 MHz 4W, 32 Ch., w/ 110V charger (Available through March 2006)	358.00
TK-372GK3RM	490-512 MHz 4W, 32 Ch., w/ 220V charger	358.00
TK-372GK4RK	403-430 MHz 4W, 32 Ch., w/ 110V charger (Available through December 2005)	358.00
TK-372GK4RM	403-430 MHz 4W, 32 Ch., w/ 220V charger	358.00

NOTE: SM & RM models follow the same availability schedule as the SK/RK equivalent.

TK-272G/372G FEATURES:

32 Channel Capacity
Scan with Priority
8 Character Alpha Display
Operator Selectable QT/DQT (OST)
12.5/25 kHz Channel Spacing Per Channel (VHF: 25, 30/12.5, 15 kHz)
MIL-STD 810 C, D, & E
High /Low Power per Channel
Built-in Companded Audio (W&N)
QT/DQT
2-Tone Decode & Encode
DTMF ANI Encode
DTMF Auto-Dial Memory
Smart Trunk II Omni Option
Key Lock Feature
Busy Channel Lockout
Talk Around
Time Out Timer
Built-in Speaker Mic jack
2 Color LED indicators
Power Saver Mode
Low Battery Alert
PC Tuning
Flash ROM
TK-260G/270G/360G/370G Compatible Accessories

Includes:
KNB-15ABK 1100 mAH large capacity battery
KBH-8 Spring action belt clip
Regular or Rapid Rate Charger (choice of SKU)

Accessories for the TK-272G/372G

Model	Description	List
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz	$17.00
KRA-14M2	VHF helical antenna 162-174 MHz	17.00
KRA-14M3	VHF helical antenna 136-150 MHz	17.00
KRA-15AM	UHF whip antenna 450-490 MHz	17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-15AM3	UHF whip antenna 403-430 MHz	17.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 136-150 MHz	13.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
KRA-17M3	UHF stubby antenna 403-430 MHz	13.00
BATTERIES AND CHARGERS		
KBP-1	KNB-14 size 6 cell AA Alkaline pack, black (alkalines not incl.)**For 1 Watt Use Only @ 4 hrs. 5-5-90 duty**	20.00
KNB-14	600 mAH, 7.2 VDC (4/5W), Nicad battery	37.00
KNB-15A	1100 mAH, 7.2 VDC (4/5W) extended capacity Nicad battery -**same as supplied**	47.00
KNB-20N[4]	1600 mAH NiMH, 11 hours life @ 5-5-90 (KSC-24 charger required) **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases. Intrinsically Safe version NOT available.	47.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-**25** rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-15	Regular rate single unit desk charger for KNB-14/15	28.00
KSC-15M	220 volt Regular rate single unit desk charger for KNB-14/15	28.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,17,19 (chargers not included) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/ NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24 (chargers not included) **Note:** Compatible with NiMH batteries (KNB-20N/21N/22N with KSC-24) & NiCd batteries	80.00
KVC-6A[1]	Vehicular D.C. Charger for 60/60G/70/70G/72G/73G Portables **Note:** compatible with the NiMH battery (KNB-20N) and NiCd battery packs.	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS[2]	Swivel belt loop with D-Ring	25.00
KLH-6SW	Swivel belt loop / detachable swivel back for a leather case	21.00
KLH-112	Leather case for TK-272G/372G/373G	42.00
KWR-1	Water-Resistant Bag	29.00
INSTALLATION ACCESSORIES		
ST-865KW4[3]	SmarTrunk II™ Logic Board **(for 60G/70G/72G portables & 62G/60G mobiles)** SmarTrunk II™ is a registered trademark of SmarTrunk Systems Inc.	115.00
MICROPHONE AND SPEAKERS		
KEP-2	2.5mm earphone kit for KMC-17 Speaker Mics (Black only).	50.00
KHS-1	Headset with VOX/PTT (light-duty use)	62.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	350.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	320.00
KHS-7	Single muff headset w/boom mic (black)	$67.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT (black)	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KMC-17	Speaker microphone (Built-in 2.5mm miniature earphone jack)	82.00
KMC-21	Compact speaker microphone	49.00

Accessories for the TK-272G/372G

Model	Description	List
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface cable (powered by P.C.s serial port)	N/A
KPG-56DK	Programming Software for 60G/70G/72G Portables & 60G/62G Mobiles Models Only	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
C807027-05	KHS-7 Foam mic windscreen, 5 pcs per pack	6.80
C807028-05	KHS-7 Foam ear cushion, 2 pcs per pack	6.50
C100733	KHS-8/9 Noise attenuating kit, 1 set per pack (Foam ear tips pieces)	4.00
C100693-2	KHS-8BL/9BL Acoustic tube replacement kit, black	16.35
C100693-19	KHS-8BE/9BE Acoustic tube replacement kit, beige (Clear coiled tubing)	16.35
C100569-2	KHS-8BL/9BL Replacement eartips, 10 per pack, black	10.00
C100569-19	KHS-8BE/9BE Replacement eartips, 10 per pack, beige(Recommended for sanitary purposes)	10.00
E05-0256-25	Screw Mount-to-BNC Adapter	14.80

Installation / Tuning Charges for TK-272G/372G Series Radios

Model	Description	List
L-805	Install KNB-14/15A Battery	0.00
L-836	Assemble KMB-16 with six KSC-20's/KSC-24's	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-899	Tune TK-272G/372G	25.00
L-909	Install ST-865KW4 (in 60G/70G/72G portables)	20.00

IMPORTANT INSTRUCTIONS

[1] **KVC-5 & KVC-6 has the following features**: Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trick charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[2] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N99-2012-05 for 60G/70G/72G Portables.

[3] ST-865KW4 - For detailed information on SmarTrunk II- Kenwood radio features and logic controller information visit SmarTrunk Inc.'s web site for informative downloads such as the "S 865KW4 SmarTrunk II Installation and Operation Manual for Kenwood "G" Series Transceivers" and the SmarTrunk II Digital Trunking System - System Overview manual.

[4] **Important Note regarding KNB-20N:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

Land-Mobile Price List

TK-280/380

VHF / UHF Trunking / Conventional Portable Radios

Model	*Description*	*List*
VHF	***Spring Action Belt Clip included; Antenna, Battery & Charger not included***	
TK-280K	146-174 MHz 5W, LTR-32 Systems, CONV-250 CH.	$517.00
TK-280K3	146-174 MHz 5W, LTR-32 Systems, CONV-250 CH., w/DTMF	550.00
TK-280K2	136-162 MHz 5W, LTR-32 Systems, CONV-250 CH.	517.00
TK-280K4	136-162 MHz 5W, LTR-32 Systems, CONV-250 CH., w/DTMF	550.00
UHF	***Spring Action Belt Clip included; Antenna, Battery & Charger not included***	
TK-380K	450-490 MHz 4W, LTR-32 Systems, CONV-250 CH.	517.00
TK-380K4	450-490 MHz 4W, LTR-32 Systems, CONV-250 CH., w/DTMF	567.00
TK-380K2	470-512 MHz 4W, LTR-32 Systems, CONV-250 CH.	517.00
TK-380K5	470-512 MHz 4W, LTR-32 Systems, CONV-250 CH., w/DTMF	567.00
TK-380K3	400-430 MHz 4W, LTR-32 Systems, CONV-250 CH.	517.00
TK-380K6	400-430 MHz 4W, LTR-32 Systems, CONV-250 CH., w/DTMF	567.00

TK-280/380 FEATURES:

GENERAL FEATURES

5W VHF / 4W UHF Transmit Power
Wide Band Frequency Ranges
12.5 / 25 kHz Channel Spacing
Programmable Power Per Channel
Companded Audio Per Channel (wide & narrow*)
500 mW Audio Power
Lighted Front Panel Dot Matrix LCD
10 Character Alphanumeric Display
3 Numeric Character Sub-Display
Dot Matrix Lighted LCD
LCD Operational Icons
Two Color Tri-State LED
5 Programmable Function Keys (lighted)
DTMF Keypad Models
Shift Key Function (keypad models)
Optional Speaker Mic (w/ 2 PF Keys)
Recessed Orange Emergency/AUX Key
Encryption/Scrambler Board Control
ANI Board Control
PTT ID Side-Tone (ANI Boards)*
PTT ID TA Inhibit*
Emergency Type (FS, DTMF, ANI Brd.)*
Emergency Calling Feature
Key Lock Feature
DTMF Decode Selective Call
DTMF Deadbeat Disable
DTMF PTT ID & DTMF Emergency ID*
Alert with Transpond (2-Tone, DTMF)*
Call Alert Tone: Mom or Continuous
(2-Tone, DTMF & FleetSync®)*
Auto-Dial Memory (32 numbers)
Key Lock Feature
Low Battery Alert
Weather-Sealed Accessory Connector
PTT Release Tone
Minimum Volume
Control Tones On/Off
Embedded Message (64 Char.)
Data Password ("Anti-piracy")
Radio Password (Radio Lock)
Clone Capability (enable/disable)
Front Panel Field Programming & Tuning
Windows® PC Programming/ Tune Software
Flash ROM Firmware
MIL810 C, D & E (11 categories)

CONVENTIONAL MODE

250 CH (aggregate max.)
Single Priority Scan
Single/Multi-Group Scan
Scan Revert Channel Display
Scan Delete/Add
Nuisance Delete
QT/DQT Encode & Decode
Operator Selectable Tone (16 OST)
2-Tone Decode (A, B, C, A-B, A-C, C-B; 2 decode pairs)*
BCL, BCL Override, TOT & TA

TRUNKED MODE

32 Systems (max.)
Trunked LTR & Conventional Systems
250 Group IDs (aggregate max.)
Single Priority Scan (within any Conv. System only)
LTR Talk Around / Scan Revert Group Display
System Scan & Group Scan / Auto System Search

FLEETSYNC®

PTT ID (Digital ANI; 100 ID List capacity*)
- Caller ID Display (per CH; BOT only)*
- Caller ID Stack (last 3 calls)*

Status Messaging (50 Msg. List capacity*)
- 70 Custom Dispatch Messages
- 9 Reserved Special Use Messages

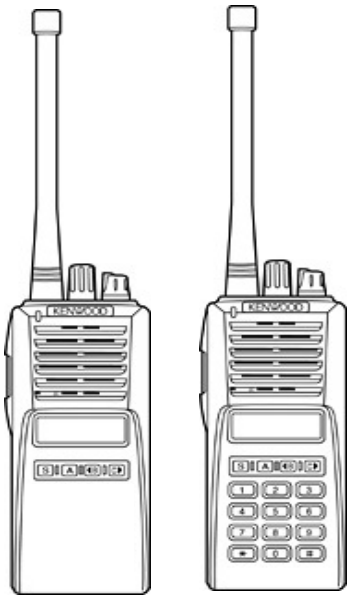
FLEETSYNC® CONT.....

ST# 98 - Man Down Emergergency (portables)*
ST# 99- Emergency Status
ST# 88- Emergency Mode Off*
ST# 89- Horn Alert Request* (mobiles)
ST# 90- Stun radio (No TX)
ST# 91- Stun radio (No TX / No RX audio)
ST# 92- Turn off Stun
ST# 93- ACK stun is ON
ST# 94- ACK stun is OFF
ST# 80-87, 95-97 (Reserved for future use)
Selective Call
Short Text Messages** (stored/display)

*** Features added in Ver. 2 radios**
**** Fleetsync® Enhanced Option required (included as of 10/1/02)**

INCLUDED ITEMS

Spring Action Belt Clip, Instruction Manual



USTC

Accessories for the TK-280/380 Series Radios

Model	Description	List
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz	$17.00
KRA-14M2	VHF helical antenna 162-174 MHz	17.00
KRA-14M3	VHF helical antenna 136-150 MHz	17.00
KRA-15AM	UHF whip antenna 450-490 MHz	17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-15AM3	UHF whip antenna 403-430 MHz	17.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 136-150 MHz	13.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
KRA-17M3	UHF stubby antenna 403-430 MHz	13.00
KRA-25	High Gain VHF Helically Loaded ¼ Wave Whip Antenna 148-162 MHz (9.75 inches); SMA-F connector Note: The KRA-25 is 9.75 inches long. This is 3.75 inches longer than a normal VHF helical antenna! Stocked in limited quantities. Allow up to 8 weeks for delivery.	32.50
BATTERIES AND CHARGERS		
KBP-4[3]	AA Alkaline Refillable Battery Pack for TK-290/390/280/380 (12 AA Alkaline 9V **Batteries Not Incl.**	41.00
KNB-16A	1100 mAh/8 Hour, 7.2 VDC Ni-Cd battery	57.00
KNB-17A	1500 mAh/10 Hour, 7.2 VDC Ni-Cd battery	67.00
KNB-17BK[1, 2]	Intrinsically Safe Battery 1500 mAh, 7.2 VDC (4/5W), NiCd battery **[I.S. Certified]**	100.00
KNB-21N[7]	1600 mAh NiMH (more than 10 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	60.00
KNB-22N[7]	2100 mAh NiMH (more than 13 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	70.00
KNB-22NC[8]	2100 mAh NiMH (approx. 13 hrs. life @ 5-5-90); requires KSC-24 charger, **[I.S. Certified] Must order L-980** Note: Not compatible with Kenwood NiCd chargers or earlier model leather cases.	117.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units eacl	182.00
KSC-19	Regular rate single unit desk charger for NiCd batteries only: KNB-16/17A/17B	35.00
KSC-19M	220 volt regular rate single unit desk charger for NiCd batteries only: KNB-16/17A/17B	35.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,19,30 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,24,25 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter) Note: Compatible with NiMH batteries (KNB-20N/21N/22N) & NiCd batteries when used with the KSC-24	80.00
KVC-5A[4]	Drop-in Vehicular D.C. Charger for 80/90 Series Portables **Note:** Compatible with KNB-16/17A/17B/21N/22N	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS[5]	Swivel belt loop with D-Ring	25.00
KLH-58BC	Bungi-cord for KLH-58/60/71/75/76	3.50
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back for a leather case	21.00
KLH-75B	Heavy duty leather carrying case for TK-280/380/480/481 - compatible w/NiCd & NiMH batteries	42.00
KLH-76B	Heavy duty leather carrying case for TK-280/285/380/480/481 DTMF keypad models - compatible w/NiCd & NiMH batteries	42.00
KLH-85	Cordura Nylon carrying case for TK-280/380/480/481 DTMF keypad models (Black)	25.00
KLH-86	Cordura Nylon carrying case for TK-280/285/380/480/481 (Black)	25.00
KLH-92	Heavy duty leather carrying case for TK-280/380/480/481 DTMF keypad models w/ KBP-4	42.00
KWR-1	Water resistant bag	29.00

Accessories for the TK-280/380 Series Radios Cont'd…

Model	*Description*	*List*
MICROPHONES AND SPEAKERS		
KEP-1[1]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only)**[I.S. Certified]**	50.00
KCT-30[1]	2.5mm Audio Accessory Adapter for KEP-3/4**[I.S. Certified]**	61.00
KEP-3[1]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black)**[I.S. Certified]**	49.00
KEP-4[1]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black)**[I.S. Certified]**	52.00
KMC-25[1]	MIL-SPEC, Noise canceling Speaker mic**[I.S. Certified]**	92.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **[I.S. Certified]**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black)**[I.S. Certified]**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **[I.S. Certified]**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black)**[I.S. Certified]**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk)**[I.S. Certified]**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; (Heavy-duty headsets; Allow min. 4 weeks delivery time).**[I.S. Certified]**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db. (Heavy-duty headsets; Allow min. 4 weeks delivery time).**[I.S. Certified]**	350.00

QE-2 G-Star®/ MDC1200 DIGITAL ANI MODULES by Cimarron Technologies

How to Order: Please see QE-2 Information and Order Sheet available from LMR Order Desk

1. Select the proper model/ quantity of radios, desired MDC-1200 (L-901) or G-Star (L-902) ANI format labor code.
2. Refer to the "QE-2 MDC-1200 Information/Order Sheet" available from the LMR Order Desk; select the ID format, ID codes and other feature options
3. Fax the Order Sheet with your radio order to your authorized Kenwood Rep or LMR Order Desk

All order sheet items must be filled out even if the feature option is "disabled" (incomplete Order Sheets will not be processed).

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).

b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

Notes:

Emergency "Man-down" features require an installed CAE-3 internal man-down tilt switch option (portables only).

Dealers can purchase a QE-2 programmer , Model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

QE-2	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Important Factory Install Only – Order L-901 or L-902**	128.00
CAE-3	Emergency Man-Down Internal Tilt Switch (mercury switch) [Factory Install Only – Must order L-845]. The CAE-3 is only sold for use w/Cimarron ANI Option modules for man-down emergency.**[I.S. Certified]**	21.00

Transcrypt Secure Technologies Encryption

The following Transcrypt Secure Technologies encryption accessories (available from Transcrypt) and TK-280/380/480/481 combination when installed according to Transcrypt instructions meet Intrinsically Safe Classes I, II & III, Div.1, Groups C, D,E, F & G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations:

· SC20-400 · SC20-430-12
· SC20-416-12 · SC20-460-12

For more information on Transrcypt encryption please visit their website at www.transcryptsecure.com or contact them at:

Transcrypt Secure Technologies
4800 NW 1st Street, Suite 100
Lincoln, NE 68521
Phone: 402-474-4800
Fax: 402-479-8472

SERVICE RELATED ACCESSORIES

KPG-36	Programming interface Cable	N/A
KPG-49DK	P.C. Programming Software for TK-280/380/480/481/780/880/980/981	N/A

Installation/Tuning Charges for the TK-280/380 Series Radios

Model	*Description*	*List*
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-845	Install CAE-3 (portable only)	9.00
L-855	Tune TK-280/380	25.00
L-856	Configure TK-280/380 for Intrinsically Safe **(Must Order KNB-17BK)**	70.00
L-980	Configure TK-280/380/480/481/385 (KNB-22NC for Intrisically Safe **(Must Order KNB-22NC)**	70.00
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00

PassPort® Options (Kenwood-installed)

FOR NEW RADIO ORDERS ONLY

Ordering Instructions

For VHF/UHF models TK-280/780/380/880 new radio orders, the Kenwood-installed PassPort® ESN / firmware option is no charge: Order the PassPort® ESN/Firmware option L-938 for each PassPort® radio.

Other required items:
a. 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.
b. KPG-49D is required only if LTR or conventional systems are to also be programmed in the PassPort® radi

Model	*Description*	*List*
L-938	Install PassPort® ESN options and firmware; NO CHARGE for new TK-280/380/780/880 orders Note: Only current 80-Series Version 2.0 production radios ("Ver. 2.0" appears on FCC ID label)	0.00

PassPort® Radio Programming Software

KPG-63DK	PassPort® Radio Programming Software V2.00 or higher	65.00

PassPort® Options (Field-installation kits)

FOR DEALER / OPERATOR FIELD CONVERSIONS

Ordering Instructions

1. Order the ESN key/firmware Labor Code options: L-892, L-893 or L-894; specify model radio(s).
Pre-loaded ESN hardware key(s) with the ordered quantities of ESN's and 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-usable 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 tbe programmed in the PassPort® radio.
3. The KPG-49D radio programming software is required for LTR & conventional site programming [2].

Model	*Description*	*List*
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

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*

SRB08698	Hardware Key (Sentinel Super Pro)	83.33

NOTES:
· Requires purchase of L-892, 893 or 894
· Sales of L-892, 893, 894 are NOT refundable
· Maximum 100 ESNs per hardware key
· Requires KPG-64D to download PassPort TM ESN options into an 80-Series radio.
· Important: The hardware key is registered to the computer that it is first used on; it cannot be used on other computers.
· Empty hardware keys can be returned for 50% credit; call the LMR order desk for RMA #.
· Important: Retain depleted keys until a new one is received. It will be required to register the new key to the same computer.

KPG-64D	PassPort® ESN Field Installation Software V1.12 · V1.12: supercedes V1.11; upgrade to V1.12 recommended for improved ESN file database features	10.00
KPG-63D	PassPort® Radio Programming Software V2.00 or higher	65.00

IMPORTANT NOTES:

[1] For intrinsically safe models TK-190/280/380/290/390/480/481: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations.

[2] **Important Note Regarding Intrisically Safe Certification:** Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company

[3] AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.

Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained. Nominal Life (hrs.) 5-5-90 duty cycle, battery save off, scan off. See chart below:

Transmit Power	1W	2W	4/5W
Nominal Battery Life (hrs.)	18	11.5	4

[4] **KVC-5 & KVC-6 has the following features**: Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[5] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N99-2004-05.

[6] Required to program both normal radio parameters and all FleetSync™ feature parameters.

[7] **Important Note regarding KNB-21N/22N/22NC:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: **NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles**

[8] Meets Intrinsically Safe requirements of Classes I, II, III, Division 1, Groups C, D, E, F, G, & Non-Incendive Class I, Division 2, Gropus C, D hazardous locations.

The KNB-22NC is labeled "KNB-22NC is an authorized alternate to KNB-17B" and therefore the KNB-22NC can be sold into existing portable fleets using KNB-17BK and not compromise the portables I.S. certification.

The KNB-22NC does NOT require re-adjustment of the Low Battery Warning settings. Portables previously inspected & readjusted by Kenwood Tuning Dept. or the dealership for KNB-17B Low Battery Warning should be re-adjusted for the Low Battery Warning factory default setting (per the service manual).

KENWOOD

Jun-05

Last Revised: 6/01/05

Land-Mobile Price List

TK-290/390

VHF / UHF Public Safety / Service Portables

Model	*Description*	*List*
VHF	***Spring Action Belt Clip included. Antenna and Battery not included***	
TK-290K	136-174 MHz 5W, 160 Ch. w/dual priority scan	$750.00
TK-290K2	136-174 MHz 5W, 160 Ch. w/dual priority scan, w/DTMF keypad	800.00
UHF	***Spring Action Belt Clip included. Antenna and Battery not included***	
TK-390K	450-490 MHz 4W, 160 Ch. w/dual priority scan	800.00
TK-390K2	470-512 MHz 4W, 160 Ch. w/dual priority scan	800.00
TK-390K3	403-430 MHz 4W, 160 Ch. w/dual priority scan	800.00
TK-390K4	450-490 MHz 4W, 160 Ch. w/dual priority scan, w/DTMF keypad	850.00
TK-390K6	403-430 MHz 4W, 160 Ch. w/dual priority scan, w/DTMF keypad	850.00

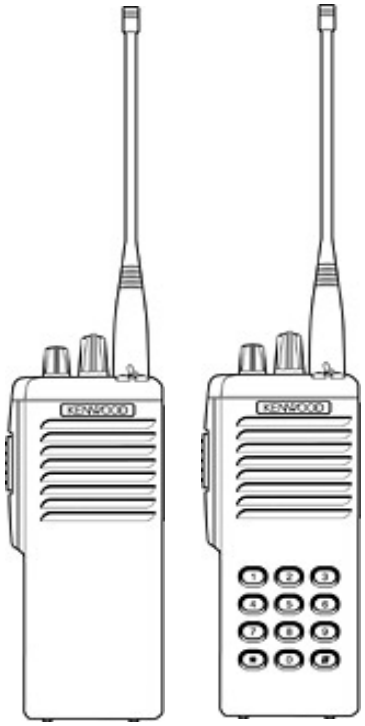
TK-290/390 FEATURES:

160 Channel Capacity
Wide Band
Multiple Band Width
12.5 / 25 kHz Channel Spacing (per channel)
MIL-STD 810 C, D, & E
Weather-Sealed Accessory Connector
Programmable Power Per Channel
Die-Cast Chassis
Noise-Canceling Mic
MIL-STD Speaker Mics
Mechanical Rotary Channel Selector
Programmable Toggle Switch
5 Programmable Keys
Key Lock Feature
7 Character Alphanumeric LCD
Reversible Display
Two Color LED
Dual Priority Scan

FleetSync® PTT ID*
FleetSync® Emergency Status*
Emergency Mode*
Continuous Call Alert**
Call Alert & Transpond**
Power On Text**
Two Tone Decode A-B, B-C & C-B**
DTMF Decode/Encode
Operator Selectable Tone
(DTMF Keypad Models)
Encryption Board Port/Control
Digital ANI Board Port/Control
Emergency Key & Call Channel
Radio Lock Password
Data Password
Cloning: All, Group
PC Tuning
Flash ROM
Companded Audio

Included Items:
Spring Action Belt Clip
Instruction Manual

* Feature available with Version 2.0 radio production; serial S/N 209xxxxx or later
** Feature available with Version 2.0 radio production; serial S/N 303xxxxx or later



w/ DTMF

Accessories for the TK-290/390 Series Radios

Model	Description	List
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz	$17.00
KRA-14M2	VHF helical antenna 162-174 MHz	17.00
KRA-14M3	VHF helical antenna 136-150 MHz	17.00
KRA-15AM	UHF whip antenna 450-490 MHz	17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-15AM3	UHF whip antenna 403-430 MHz	17.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 130-150 MHz	13.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
KRA-17M3	UHF stubby antenna 403-430 MHz	13.00
KRA-25	High Gain VHF Helically Loaded ¼ Wave Whip Antenna 148-162 MHz (9.75 inches); SMA-F connector) Note: The KRA-25 is 9.75 inches long. This is 3.75 inches longer than a normal VHF helical antenna! Stocked in limitet quantities. Allow up to 8 weeks for delivery.	32.50
BATTERIES AND CHARGERS		
KBP-4[3]	AA Alkaline Refillable Battery Pack for TK-290/390/280/380 (12 AA Alkaline 9V) **Batteries Not Incl.**	41.00
KNB-16A	1100 mAh/8 Hour, 7.2 VDC Ni-Cd battery	57.00
KNB-17A	1500 mAh, 7.2 VDC (4/5W), NiCd battery	67.00
KNB-17BK[1, 2]	Intrinsically Safe Battery 1500 mAH, 7.2 VDC (4/5W), NiCd battery **[I.S. Certified] Must order L-835.**	100.00
KNB-21N[7]	1600 mAh NiMH (more than 10 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	60.00
KNB-22N[7]	2100 mAh NiMH (more than 13 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	70.00
KNB-22NC[8]	2100 mAh NiMH (approx. 13 hrs. life @ 5-5-90); requires KSC-24 charger, **[I.S. Certified] Must order L-979.** Note: Not compatible with Kenwood NiCd chargers or earlier model leather cases.	117.00
KMB-16	Six Unit Charger Adapter for the KSC-16/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-16/24/25/32 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each.	182.00
KSC-19	Regular rate single unit desk charger for NiCd batteries only: KNB-16/17A/17B	35.00
KSC-19M	220 volt regular rate single unit desk charger for NiCd batteries only: KNB-16/17A/17B	35.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,17,19 (chargers not included) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20,24,25 (chargers not included) **Note:** Compatible with NiMH batteries (KNB-20N/21N/22N) & NiCd batteries when used with KSC-24	80.00
KVC-5[4]A	Vehicular D.C. Charger for 80/90 Series Portables **Note:** Compatible with the KNB-16/17A/17B/21N/22N/22NC	340.00
KVC-8A	150-174 MHz 35W Vehicular Adapter **(See important notes below for KVC-8A/9A)**	885.00
KVC-9A	450-512 MHz 25W Vehicular Adapter **(See important notes below for KVC-8A/9A)**	885.00
	KVC-8A/9A accessory compatibility and required accessories **Compatible w/ TK-290/390 portables using KNB-17A/B NiCd battery packs only. KNB-21N/22N Ni-MH battery packs are NOT compatible. KMC-25/26 are NOT compatible (speaker microphones CANNOT be installed).**	
KES-5	External speaker, 40W max input, blk case; 5"x5"x2-9/16" [listed here for KVC-8A/9A purchase]	59.00
KMC-27B	Standard dynamic mobile microphone (8-pin mod. plug) [listed here for KVC-8A/9A purchase]	40.00
KCT-18	Ignition sense cable (requires KCT-19) [listed here for KVC-8A/9A purchase]	13.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS	Swivel belt loop with D-Ring	25.00
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back for a leather case	21.00
KLH-78B	Heavy duty leather carrying case for TK-190/290/390 - compatible w/NiCd & NiMH batteries	42.00
KLH-79B	Heavy duty leather carrying case for TK-290/390 DTMF Keypad models - compatible w/NiCd & NiMH batteries	42.00
KLH-88	Cordura Nylon carrying case for TK-190/290/390	25.00
KLH-89	cordura Nylon carrying case for TK-290/390 DTMF Keypad models	25.00
KLH-90	Heavy duty leather carrying case for TK-290/390 DTMF Keypad models w/ KBP-4	42.00

Accessories for the TK-290/390 Series Radios

Model	Description	List
MICROPHONE AND SPEAKERS		
KCT-30[1]	2.5mm Audio Accessory Adapter **[I.S. Certified]**	$61.00
KEP-1[1]	3.5mm earphone kit for KMC-25/26, KMC-10/11 Speaker Mics (Black only) **[I.S. Certified]**	50.00
KEP-3[1]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) **[I.S. Certified]**	49.00
KEP-4[1]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) **[I.S. Certified]**	52.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector (Beige) **[See Note 1] [I.S. Certified]**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black) **[I.S. Certified]**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector (Beige) **[See Note 1] [I.S. Certified]**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black) **[I.S. Certified]**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk) **[I.S. Certified]**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; **[See Note 2] [I.S. Certified]**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db **[See Note 2] [I.S. Certified]**	350.00
	Note 1: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time.	
	Note 2: Heavy-duty headsets; Allow min. 4 weeks delivery time.	
KMC-25[1]	MIL-SPEC, Noise canceling Speaker mic **[I.S. Certified]**	92.00
KMC-26[1]	MIL-SPEC, Noise canceling Speaker mic w/Antenna Connector (antenna not incl.) **[I.S. Certified]**	110.00
SERVICE RELATED ACCESSORIES		
KPG-36	Programming interface cable	N/A
KPG-38DK[6]	Programming Software	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
E30-3325-05	Portable-to-Portable Cloning cable (For TK-290/390/480/481 Only)	65.00
DIGITAL ANI MODULES		
QE-2[1]	G-Star® or MDC1200 ANI Board: PTT ANI, emergency & man-down messages **[Factory Install Only]** – Must order L-901 or L-902]; **[I.S. Certified]**	128.00

QE-2 G-Star®/ MDC1200 Digital ANI Boards by Cimarron Technologies

Pre-programmed & installed boards require a completed "QE-2 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order.

Notes:

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).
b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).
c. Emergency "Man-down" feature requires an installed CAE-3 internal man-down tilt switch option (portables only).
d. QE-2 Programmers are NOT available from Kenwood. Purchase model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

CAE-3[1]	Emergency Man-Down Internal Tilt Switch (mercury switch) [Factory Install Only – Must order L-845]. The CAE-3 is only sold for use w/Cimarron ANI Option modules for man-down emergency. **Note:** Not Sold, Installed without QE-2 or CDEU-1 Installation. **[I.S. Certified]**	21.00

Installation / Tuning Charges for the TK-290/390 Series Radios

Model	Description	List
L-804	Tune TK-290/390	$25.00
L-836	Assemble KMB-16 with six KSC-24's	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-835	Configure TK-190/290/390 for Intrinsically Safe **(Must Order KNB-17BK)** **Note:** Please see end of this pricepages section for a list of Intrinsically Safe Accessories for this radio.	70.00
L-979	Configure TK-190/290/390 (KNB-22NC) for Intrinsically Safe **(Must Order KNB-22NC)**	70.00
L-837	Install KNB-17A/17BK battery	0.00
L-845	Install CAE-3 (portable only)	9.00
L-870	Simultaneous transpond and alert feature up-grade for 90-series mobiles & portables	50.00
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00

Intrinsically Safe Accessories for the TK-290/390 Series Radios

Model	Description	List
BATTERIES		
KNB-17BK[1, 2]	Intrinsically Safe Battery 1500 mAH, 7.2 VDC (4/5W), Nicad battery **[I.S. Certified]**	$100.00
KNB-22NC[8]	2100 mAh NiMH (approx. 13 hrs. life @ 5-5-90); requires KSC-24 charger, [I.S. Certified] Must order L-979. Note: Not compatible with Kenwood NiCd chargers or earlier model leather cases.	117.00
MICROPHONE AND SPEAKERS		
KCT-30[1]	2.5mm Audio Accessory Adapter **[I.S. Certified]**	61.00
KEP-1[1]	3.5mm earphone kit for KMC-25/26, KMC-10/11 Speaker Mics (Black only) **[I.S. Certified]**	50.00
KEP-3[1]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) **[I.S. Certified]**	49.00
KEP-4[1]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) **[I.S. Certified]**	52.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector (Beige) **[See Note 1] [I.S. Certified]**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black) **[I.S. Certified]**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector (Beige) **[See Note 1] [I.S. Certified]**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black) **[I.S. Certified]**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk) **[I.S. Certified]**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; **[See Note 2] [I.S. Certified]**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db **[See Note 2] [I.S. Certified]**	350.00
	Note 1: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time. **Note 2:** Heavy-duty headsets; Allow min. 4 weeks delivery time.	
KMC-25[1]	MIL-SPEC, Noise canceling Speaker mic **[I.S. Certified]**	92.00
KMC-26[1]	MIL-SPEC, Noise canceling Speaker mic w/Antenna Connector (antenna not incl.) **[I.S. Certified]**	110.00
DIGITAL ANI MODULES		
QE-2[1]	G-Star® or MDC1200 ANI Board: PTT ANI, emergency & man-down messages **[Factory Install Only]** – Must order L-901 or L-902]; **[I.S. Certified]**	128.00
CAE-3[1]	Emergency Man-Down Internal Tilt Switch (mercury switch) [Factory Install Only – Must order L-845]. The CAE-3 is only sold for use w/Cimarron ANI Option modules for man-down emergency. **Note:** Not Sold, Installed without QE-2 or CDEU-1 Installation. **[I.S. Certified]**	21.00

G-Star® is a registered trademark of General Electric.

Transcrypt Secure Technologies Encryption

The following Transcrypt Secure Technologies encryption accessories (available from Transcrypt) and TK-190/290/290 combination when installed according to Transcrypt instructions meet Intrinsically Safe Classes I, II & III, Div.1, Groups C, D,E, F & G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations:

SC20-400 SC20-460-12
SC20-416-12 SC20-DES
SC20-430-12

For more information on Transrcypt encryption please visit their website at www.transcryptsecure.com or contact them at:

Transcrypt Secure Technologies
4800 NW 1st Street, Suite 100
Lincoln, NE 68521
Phone: 402-474-4800
Fax: 402-479-8472

[1] For intrinsically safe models TK-[190]/280/380/290/390/480/481: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations.

[2] **Important Note Regarding Intrisically Safe Certification:** Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.

[3] AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.
Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained. Nominal Life (hrs.) 5-5-90 duty cycle, battery save off, scan off. See chart below:

Transmit Power	1W	2W	4/5W
Nominal Battery Life (hrs.)	18	11.5	4

[4] **KVC-5 & KVC-6 has the following features** Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yell "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[6] The new KPG-38D V1.10 release or later is required to enable audio companding. TK-290 & TK-390 production lots with these changes will bear an letter "A" mark near the serial number label on the factory cartons for easier recognition (until Dec. 1999).

TK-290 (all models): New KPG-38D V1.10 Program Software enables for 2.5 kHz Channel Steps and Audio Companding
TK-290 production (all models), starting with Jan. 1999 production (serial no. 010xxxxx and after) have firmware and circuit changes that add 2.5 kHz PLL channel stepping (former lots had 5, 6.25 & 7.5 kHz stepping) and companded audio. The new KPG-38D V1.10 release or later is required to program both 2.5 kHz ch. step size and enable audio companding.

TK-390 (all models): New KPG-49D V1.10 Program Software enables Audio Companding.
TK-390 production (all models), starting in Sept. 1998 production (serial no. 006xxxxx and after) have firmware changes to add companded audio.

[7] **Important Note regarding KNB-21N/22N:**
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

[8] Meets Intrinsically Safe requirements of Classes I, II, III, Division 1, Groups C, D, E, F, G, & Non-Incendive Class I, Division 2, Gropus C, D hazardous locations. The KNB-22NC is labeled "KNB-22NC is an authorized alternate to KNB-17B" and therefore the KNB-22NC can be sold into existing portable fleets using KNB-17BK and not compromise the portables I.S. certification. The KNB-22NC does NOT require adjustment of the Low Battery Warning settings. Portables previously inspected & readjusted by Kenwood Tuning Dept. or the dealership for KNB-17B Low Battery Warning should be re-adjusted for teh Low Battery Warning factory default setting (per the service manual).

KENWOOD

Jun-05

Last Revised: 06/01/05

NOTE: Available through September 2005

Land-Mobile Price List

TK-373G

UHF Trunking Portable Radios

Model	*Description*	*List*
UHF	***Antenna, battery, and charger not included; spring action belt clip included***	
TK-373GK	450-470 MHz 4W, 32 Systems	$399.00
TK-373GK2	470-490 MHz 4W, 32 Systems	$399.00

TK-373G FEATURES:

32 System
Trunked Format: (LTR & Conventional Modes)
Priority Scan (Conventional Mode)
8 Character Alphanumeric Aliases
Lighted LCD Display
Power On LCD Text Message
12.5/25 kHz Wide/Narrow [1]
High/Low Power per group
Companded Audio Per group[2]
2 Color LED Indicator
Home Group Function
Key Lock Function
QT/DQT Encode & Decode
DTMF ID (BOT/EOT)
DTMF Auto Dial (32 memories)
Auto-Redial (PF Key Function)
Busy Channel Lockout
Talk Around & Time Out Timer
Power/Control/Warn Tone On/Off
PTT Release Tone
PC Programming (KPG-76D)
PC Tuning
Panel Test & Tuning Modes
Cloning (same model only)
Flash ROM Memory
Embedded Message (64 char.)
MIL-STD 810 C, D & E
Intrinsically Safe version NOT available.

---

[1] Conventional systems per group; LTR systems per system
[2] Both wide 25 kHz and narrow 12.5 kHz spaced channels

KENWOOD

Jun-05

Last Revised: 06/01/05

NOTE: Available through September 2005

Accessories for the TK-373G Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-15AM	UHF whip antenna 450-490 MHz	$17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
BATTERIES AND CHARGERS		
KBP-1	KNB-14 size 6 cell AA Alkaline pack, black (alkalines not incl.)**For 1 Watt Use Only @ 4 hrs. 5-5-90 duty**	20.00
KNB-14	600 mAH, 7.2 VDC (4/5W), NiCd battery	37.00
KNB-15A	1100 mAH, 7.2 VDC (4/5W) extended capacity NiCd battery	47.00
KNB-20N[3]	1600 mAH NiMH, 11 hours life @ 5-5-90 (KSC-24 charger required) **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases. Intrinsically Safe version NOT available.	47.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-**25** rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-15	Regular rate single unit desk charger for KNB-14/15	28.00
KSC-15M	220 volt Regular rate single unit desk charger for KNB-14/15	28.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/20N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/20N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,(chargers not included) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16, 24 (chargers not included) **Note:** Compatible with NiMH batteries (KNB-20N/21N/22N with KSC-24) & NiCd batteries	80.00
KVC-6A[1]	Vehicular D.C. Charger for 60/60G/70/70G/72G/73G Portables **Note:** compatible with the NiMH battery (KNB-20N) and NiCd battery packs.	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS[2]	Swivel belt loop with D-Ring	25.00
KLH-6SW	Swivel belt loop / detachable swivel back for a leather case	21.00
KLH-112	Leather case for TK-272G/372G/373G	42.00
KWR-1	Water-Resistant Bag	29.00
MICROPHONE AND SPEAKERS		
KEP-2	2.5mm earphone kit for KMC-17 Speaker Mics (Black only).	50.00
KHS-1	Headset with VOX/PTT (light-duty use)	62.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	350.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db	320.00
KHS-7	Single muff headset w/boom mic (black)	67.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT (black)	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KMC-17	Speaker microphone (Built-in 2.5mm miniature earphone jack)	82.00
KMC-21	Compact speaker microphone	49.00
KPG-22	Programming interface cable (powered by P.C.s serial port)	N/A
KPG-76D	Programming Software for TK-373G/863G	99.00
SERVICE RELATED ACCESSORIES		
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
C807027-05	KHS-7 Foam mic windscreen, 5 pcs per pack	6.80
C807028-05	KHS-7 Foam ear cushion, 2 pcs per pack	6.50
C100733	KHS-8/9 Noise attenuating kit, 1 set per pack (Foam ear tips pieces)	4.00
C100693-2	KHS-8BL/9BL Acoustic tube replacement kit, black	16.35
C100693-19	KHS-8BE/9BE Acoustic tube replacement kit, beige (Clear coiled tubing)	16.35
C100569-2	KHS-8BL/9BL Replacement eartips, 10 per pack, black	27.48
C100569-19	KHS-8BE/9BE Replacement eartips, 10 per pack, beige(Recommended for sanitary purposes)	10.00

NOTE: Available through September 2005

Installation / Tuning Charges for TK-373G Series Radios

Model	*Description*	*List*
L-805	Install KNB-14/15A/20N Battery	$0.00
L-836	Assemble KMB-16 with six KSC-24's	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-935	Tune TK-373G	25.00

[1] **KVC-6A has the following features**: Accommodates Speaker/Microphones of KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[2] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N35-2610-45 (for TK-270/370 & Part #N99-2012-05 Part # N99-2012-05 for 60G/70G/72G Portables.

[3] **Important Note regarding KNB-20N:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycle***

Land-Mobile Price List

TK-385K

450-470MHz UHF MPT1327 Network Trunking Portable Radio

Model	*Description*	*List*
UHF	***Spring Action Belt Clip Included: Antenna, Battery & Charger not included***	
TK-385K	450-470 MHz 4W w/ DTMF keypad; 8 MPT networks (trunked mode); 32 CH (conv. mode)	$583.00

TK-385K FEATURES:

GENERAL FEATURES

4W UHF Transmit Power
12.5 kHz Channel Spacing
500 mW Audio Power
Lighted Front Panel Dot Matrix LCD
12 Character Alphanumeric Display
3 Character Sub-Display (RSSI bargraph)
LCD Operational Icons
Two Color LED (TX/Busy indicator)
5 Programmable Function Keys
Orange Emergency (network) / AUX Key
Encryption/Scrambler Board Control
Key Lock Feature
Low Battery Alert
Weather-Sealed Accessory Connector
Data Access Interface
Minimum Volume Setting
Power On Text (message display)
Embedded Message (64 Char.)
ESN Protected Network files
Radio Password (unlock; DTMF & Call key)
Data Password (Protected Programming)
KPG-62D Windows® PC Programming & Tuning
Front Panel Test & Tune
Flash ROM Firmware
KMC-25 Mil-Spec Speaker Mic Opt. (2 PF Keys)
MIL-STD810 C, D & E (11 categories)
MIL-STD "Driven Rain" Compliant
IP-54 Water Resistance Compliant
Intrinsically Safe Option & Accessories

CONVENTIONAL MODE

32 Channels (Conventional Mode)
QT/DQT Encode & Decode
Normal Scan (No Priority)
Scan Revert (Last Call, Selected or Used)
TX Power In Conventional Mode (high or low)
Companded Audio in Conventional Mode
Time Out Timer (Pre-Alert, Re-Key, Reset)
Busy Channel Lockout
DTMF Encode & Keypad Included (Conv. only)

TRUNKED NETWORK MODE***

8 Network Capacity
Individual Call
Group Call
Broadcast Call (dispatcher to all fleets call)
Priority Call (top of queue in network)
Emergency Call (specific net address/ tel. no.)
Status Message Call (32, 12-Char. statuses)
Power On Statuses
Full Off Air Call Setup (conserves network link resources)
PTT Intiates Call
Conventional Mode (manual PF key)
Auto Conventional Mode- auto switches to conventional mode when no control ch. present).
The "Trunking Search - automatically switches back to Trunked Mode mode (or alert-only) when a control ch. is detected.
Own Call Diversion (call forwarding)
Third Party Call Diversion (call forwarding)
Call Queuing (incoming call queuing)
Network Call Queuing (outgoing call queuing)
Include Call ("late entry" conversation joining)
NOS Call (3-digit priority call to net operator)
Technician Call (8-digit dial call for net techs)
Don't Distrub Call (block voice, data or all calls)
99 Call Address Table (call units)
32 Group Address Table (receive groups)
Home Key (one touch to Home Address)
Network Formatted Dialing (1343 compatible)
Dial Key (pre-prog. dial strings execuetd)
Re-Dial Key (recalls last 3 dialed calls)
Network Select (manual selection of networks)
Normal/Status/Stack Mode Select
Stack Mode Auto-reset Timer
CALL Key (initiate call)
Clear Key (initiate call & PTT)
Short Data Message Call (on control channel)*
Non-Prescribed Data (on traffic channel)*
Companded Audio Per Network
TX Power in Trunked Mode (high, low or RSSI auto)
*Require external network compatible data hardware/dispatch applications software

INCLUDED ITEMS

Spring Belt Clip
Instruction Manual

IMPORTANT NOTE

The TK-385 "network trunking" model differs from an 80-Series model. Most notable, **the TK-385 DOES NOT support the following features/options:**
25 kHz Ch. Spacing (12.5 kHz only)
Priority Scan (normal scan only)
LTR Trunking
FleetSync® Encode/Decode
ANI Boards / PTT ID Features
Emergency ANI Features (network Emergency Call only)
DTMF or 2-Tone Decode Features
PassPort® Network Option

***TK-385/885 Trunked network features/operation listed may not be available depending on brand network controller used or network operator provisioning.

Accessories for the TK-385K Netword Trunked Portable Radio

Model	*Description*	*List*
ANTENNAS		
KRA-15AM	UHF whip antennea 450-490 MHz	17.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
BATTERIES AND CHARGERS		
KBP-4 [1]	AA Alkaline Refillable Battery Pack for TK-190/290/390/280/380 (12 AA Alkaline 9V) **AA cells not included.**	41.00
KNB-16A	1100 mAh/8 Hour, 7.2 VDC Ni-Cd battery	57.00
KNB-17A	1500 mAh/10 Hour, 7.2 VDC Ni-Cd battery	67.00
KNB-17BK [2]	1500 mAH, 7.2 VDC, Ni-Cd battery **[Intrinsically Safe]**	100.00
KNB-21N [3]	1600 mAh NiMH battery (10+ hours life @ 5-5-90) Requires KSC-24 charger. **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	60.00
KNB-22N [3]	2100 mAh NiMH battery (13+ hours life @ 5-5-90) Requires KSC-24 charger. **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	70.00
KNB-22NC [2, 3]	2100 mAh NiMH battery (13+ hours life @ 5-5-90) Requires KSC-24 charger **[Intrinsically Safe]** **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	117.00
KSC-19	Regular rate single unit desk charger	35.00
KSC-19M	220 volt regular rate single unit desk charger	35.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units eacl	182.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,19,30 (chargers not included) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,24,25 (chargers not included) **Note:** Compatible with NiMH batteries (KNB-20N/21N/22N) & NiCd batteries	80.00
KVC-5A [4]	Vehicular D.C. Charger for 80/90 Series Portables **Note:** Compatible with NiMH batteries (KNB-21N/22N) & NiCd batteries	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS [5]	Swivel belt loop with D-Ring	25.00
KLH-58BC	Bungi-cord for KLH-58/60/70/71/75/76	3.50
KLH-6SW	Swivel belt loop / detachable swivel back for a leather case	21.00
KLH-76B	Heavy duty leather carrying case for 80-Series portables with DTMF keypad	42.00
KLH-85	Cordura Nylon carrying case for 80-Series portables with DTMF keypad (Black)	25.00
KLH-92	Heavy duty leather carrying case for 80-Series portables with DTMF keypad using KBP-4 AA case	42.00
KWR-1	Water resistant bag	29.00

Accessories for the TK-385K Network Trunked Portable Radio

Model	Description	List
MICROPHONE AND SPEAKERS		
KEP-1 [2]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only)**[Intrinsically Safe]**	$50.00
KCT-30 [2]	2.5mm Audio Accessory Adapter for KEP-3/4**[Intrinsically Safe]**	61.00
KEP-3 [2]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable; Black**[Intrinsically Safe]**	49.00
KEP-4 [2]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable- Black**[Intrinsically Safe]**	52.00
KMC-25 [2]	MIL-SPEC, Noise canceling Speaker mic**[Intrinsically Safe]**	92.00
KHS-11BE [2]	2-wire palm mic w/earphone, 14-pin connector- Beige; See Note 1**[Intrinsically Safe]**	149.00
KHS-11BL [2]	2-wire palm mic w/earphone, 14-pin connector- Black**[Intrinsically Safe]**	149.00
KHS-12BE [2]	3-wire mini lapel mic w/earphone, 14-pin connector- Beige; See Note 1**[Intrinsically Safe]**	175.00
KHS-12BL [2]	3-wire mini lapel mic w/earphone, 14-pin connector- Black**[Intrinsically Safe]**	175.00
KHS-14 [2]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, 14-pin connector-Black**[Intrinsically Safe]**	120.00
KHS-15-BH [2]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT, 14-pin connector; NRR 24dB- Black; See Note 2**[Intrinsically Safe]**	400.00
KHS-15-OH [2]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT, 14-pin, NRR24 dB- Black; See Note 2**[Intrinsically Safe]**	350.00
	Note 1: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time.	
	Note 2: Heavy-duty headsets; Allow min. 4 weeks delivery time.	
SERVICE RELATED ACCESSORIES		
KPG-36	Programming Interface Cable	N/A
KPG-62DK	P.C. Programming Software for TK-285/785 & TK-385/885 MPT1327 Radios (Windows® 98, 2000, Me & XP compatible)	N/A
	Important: The KPG-62DK includes a Dealer/Reseller Level License ID for limited subscriber unit programming privileges. A Network Level License ID (at no additional charge) is required for full system operator subscriber unit privileges; contact Kenwood engineering, Suwanee office 678-474-4700	

Installation/Tuning Charges for the TK-385 Series Radios

Model	Description	List
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-954	Configure TK-385 for Intrinsically Safe**(Must Order KNB-17BK or KNB-22NC)**	70.00

[1] **KBP-4 AA Refillable Packs:** DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved. Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained. Nominal Life (hrs.) 5-5-90 duty cycle, battery save off, scan off. See chart below:

Transmit Power	1W	2W	4/5W
Nominal Battery Life (hrs.)	18	11.5	4

[2] **Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations**. Important Note Regarding Intrisically Safe Certification: Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. withc proper Kenwood certification can result in serious safety and/or legal liability issues for your company.

[3] **KNB-21N/22N/22NC:** NiMH Batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation. NiMH batteries capacity life is slightly lower than NiCd: NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles

[4] **KVC-5A Features:** Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5A) with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[5] **Retain the screws included with the metal belt clip (included with radio).** These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N99-0387-05.

Land-Mobile Price List

TK-480/481

800/900 MHz Trunked Hand Held Radios

Model	*Description*	*List*
800 MHz	***1100 mAh/ 8-Hour Battery (KNB-16A) , Antenna and Spring Action Belt Clip included***	
TK-480SK	(LTR® - compatible) Trunked/Conv. sys., 2.5 watt, 32 Systems x 250 Groups	$558.00
TK-480SK2	Same as above with DTMF Key Pad	600.00
L-853	Install firmware & enable NPSPAC operation in TK-480	84.00
	Other required Items: **KPG-49D** V2.00 or higher permits "per channel" NSPAC programming capability. Note: NPSPAC and PassPort capabilty are not available in the same firmware option.	
900 MHz	***1100 mAh/8 Hour Battery (KNB-16A) , Antenna and Spring Action Belt Clip included***	
TK-481SK	(LTR® - compatible) Trunked/Conv. sys., 2.5 watt, 32 Systems x 250 Groups	583.00
TK-481SK2	Same as above with DTMF Key Pad	616.00

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

TK-480/481 FEATURES:

GENERAL FEATURES

- 2.5W 800 & 900 MHz Models
- NPSPAC firmware option
- Programmable Power Per Channel
- Companded Audio Per Channel
- 500 mW Audio Power
- Lighted Front Panel Dot Matrix LCD
- 10 Character Alphanumeric Display
- 3 Numeric Character Sub-Display
- Dot Matrix Lighted LCD
- LCD Operational Icons
- Two Color Tri-State LED
- 5 Programmable Function Keys (lighted)
- DTMF Keypad Models
- Shift Key Function (keypad models)
- Optional Speaker Mic (w/ 2 PF Keys)
- Recessed Orange Emergency/AUX Key
- Encryption/Scrambler Board Control
- ANI Board Control
- PTT ID Side-Tone (ANI Boards)*
- PTT ID TA Inhibit*
- Emergency Type (FS, DTMF, ANI Brd.)*
- Emergency Calling Feature
- Key Lock Feature
- DTMF Decode Selective Call
- DTMF Deadbeat Disable
- DTMF PTT ID & DTMF Emergency ID*
- Alert with Transpond (DTMF)*
- Call Alert Tone: Mom or Continuous (DTMF & FleetSync®)*
- Auto-Dial Memory (32 numbers)
- Key Lock Feature
- Low Battery Alert
- Weather-Sealed Accessory Connector
- PTT Release Tone
- Minimum Volume
- Control Tones On/Off
- Embedded Message (64 Char.)
- Data Password ("Anti-piracy")
- Radio Password (Radio Lock)
- Clone Capability (enable/disable)
- Front Panel Field Programming & Tuning
- PC Programming & Tuning (DOS)
- Flash ROM Firmware
- NPSPAC Firmware Option (TK-480)
- MIL810 C, D & E (11 categories)

TRUNKED FORMAT

- 32 Systems (max.)
- Trunked LTR & Conventional Systems
- 250 Group IDs (aggregate max.)
- Single Priority Scan (within any Conv. System only)
- Scan Delete/Add
- QT/DQT Encode & Decode, BCL, TOT & TA (Conv.)
- LTR Talk Around / Scan Revert Group Display
- System Scan & Group Scan / Auto System Search

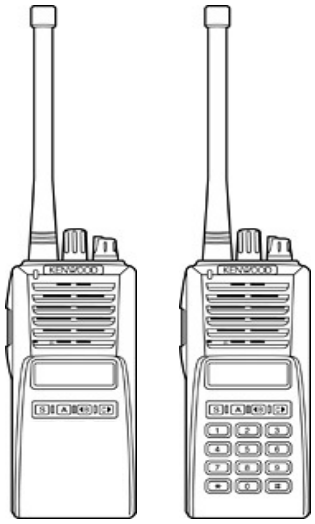
FLEETSYNC®

- PTT ID (Digital ANI; 100 ID List capacity*)
  - Caller ID Display (per CH; BOT only)*
  - Caller ID Stack (last 3 calls)*
- Status Messaging (50 Msg. List capacity*)
  - 70 Custom Dispatch Messages
  - 9 Reserved Special Use Messages
    - ST# 98 - Man Down Emergergency (portables)*
    - ST# 99- Emergency Status
    - ST# 88- Emergency Mode Off*
    - ST# 89- Horn Alert Request* (mobiles)
    - ST# 90- Stun radio (No TX)
    - ST# 91- Stun radio (No TX / No RX audio)
    - ST# 92- Turn off Stun
    - ST# 93- ACK stun is ON
    - ST# 94- ACK stun is OFF
    - ST# 80-87, 95-97 (Reserved for future use)
- Selective Call
- Short Text Messages** (stored/display)

*** Features added in Ver. 2 radios**

**** Fleetsync® Enhanced Option required - NOT factory installed on these models; please purchase seperately.**

INCLUDED ITEMS: Spring Action Belt Clip
Instruction Manual



Keypad model

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).

Accessories for the TK-480/481 Series Radios

Model	Description	List
ANTENNAS	***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		
KBP-4[5]	AA Alkaline Refillable Battery Pack for TK-290/390/280/380 (12 AA Alkaline 9V **Battery cells not incl.**	$41.00
KNB-16A	1100 mAh/8 Hour, 7.2 VDC Ni-Cd battery	57.00
KNB-17A	1500 mAh/10 Hour, 7.2 VDC Ni-Cd battery	67.00
KNB-17BK[1, 2]	Intrinsically Safe Battery 1500 mAH, 7.2 VDC (4/5W), NiCd battery **[I.S. Certified]**	100.00
KNB-21N[6]	1600 mAh NiMH (more than 10 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	60.00
KNB-22N[6]	2100 mAh NiMH (more than 13 hours life @ 5-5-90) - requires KSC-24 charger **Note:** Not compatible with Kenwood NiCd chargers or earlier model leather cases.	70.00
KNB-22NC[8]	2100 mAh NiMH (approx. 13 hrs. life @ 5-5-90); requires KSC-24/24E charger **[I.S. Certified]**	117.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-20/24/25/32 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each.	182.00
KSC-19	Regular rate single unit desk charger for NiCd batteries only: KNB-16/17A/17B	35.00
KSC-19M	220 volt regular rate single unit desk charger for NiCd batteries only: KNB-16/17A/17B	35.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N/22NC	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N/22NC	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,19,30 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter) **Note:** NOT compatible with NiMH batteries (KNB-20N/21N/22N); Compatible w/NiCd batteries	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,24,25 (chargers not included; includes KSC-mobile bracke & cigarette lighter cable DC adapter) Note: Compatible with NiMH batteries (KNB-20N/21N/22N) & NiCd batteries when used with the KSC-24	80.00
KVC-5A[3]	Drop-in Vehicular D.C. Charger for 80/90 Series Portables **Note:** Compatible with the KNB-16/17A/17B21N/22N/22NC	340.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip	8.00
KBH-8DS[4]	Swivel belt loop with D-Ring	25.00
KLH-58BC	Bungi-cord for KLH-58/60/71/75/76	3.50
KLH-6SW	Swivel belt loop / detachable swivel back for a leather case	21.00
KLH-75B	Heavy duty leather carrying case for TK-280/380/480/481	42.00
KLH-76B	Heavy duty leather carrying case for TK-280/285/380/480/481 DTMF keypad models	42.00
KLH-85	Cordura Nylon carrying case for TK-280/380/480/481 DTMF keypad models (Black)	25.00
KLH-86	Cordura Nylon carrying case for TK-280/285/380/480/481 (Black)	25.00
KLH-92	Heavy duty leather carrying case for TK-280/380/480/481 DTMF keypad models w/ KBP-4	42.00
KWR-1	Water resistant bag	29.00
MICROPHONES AND SPEAKERS		
KEP-1[1]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only) **[I.S. Certified]**	50.00
KCT-30[1]	3.5mm Audio Accessory Adapter for KEP-3/4 **[I.S. Certified]**	61.00
KEP-3[1]	Earphone kit w/3.5mm plug for KCT-30, 30" Cable (black **[I.S. Certified]**	49.00
KEP-4[1]	Earphone kit w/3.5mm plug for KCT-30, 48" Cable (black **[I.S. Certified]**	52.00
KMC-25[1]	Mil Spec, Noise Canceling, Speaker microphone **[I.S. Certified]**	92.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector (Beige **[See Note A] [I.S. Certified]**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black **[I.S. Certified]**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector (Beige **[See Note A] [I.S. Certified]**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black **[I.S. Certified]**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk **[I.S. Certified]**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; **[See Note B] [I.S. Certified]**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db **[See Note B] [I.S. Certified]**	350.00
	Note A: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time.	
	Note B: Heavy-duty headsets; Allow min. 4 weeks delivery time.	

Accessories for the TK-480/481 Series Radios

Model	*Description*	*List*
QE-2 G-Star®/ MDC1200 DIGITAL ANI MODULES by Cimarron Technologies		

How to Order: Please see QE-2 Information and Order Sheet available from LMR Order Desk

1. Select the proper model/ quantity of radios, desired G-Star (L-901) or MDC-1200 (L-902) ANI format labor code.
2. Refer to the "QE-2 MDC-1200 Information/Order Sheet" available from the LMR Order Desk; select the ID format, ID codes and other feature options
3. Fax the Order Sheet with your radio order to your authorized Kenwood Rep or LMR Order Desk

All order sheet items must be filled out even if the feature option is "disabled" (incomplete Order Sheets will not be processed).

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).
b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

Notes:

Emergency "Man-down"features require an installed CAE-3 internal man-down tilt switch option (portables only).
Dealers can purchase a QE-2 programmer , Model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

QE-2	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Important Factory Install Only –Order L-901 or L-902**	128.00
CAE-3	Emergency Man-Down Internal Tilt Switch (mercury switch) [Factory Install Only – Must order L-845]. The CAE-3 is only sold for use w/Cimarron ANI Option modules for man-down emergency **[I.S. Certified]**	21.00
SERVICE RELATED ACCESSORIES		
KPG-36	Programming interface Cable	N/A
KPG-49DK	P.C. Programming Software for TK-280/380/480/481/780/880/980/981	N/A
KPG-63DK	PassPort® Radio Programming Software V2.00 or higher	65.00
KPG-64DK	PassPort® ESN Field Installation Software	10.00
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
E30-3325-05	Portable-to-Portable Cloning cable (For TK-290/390/480/481 Only)	65.00

Installation / Tuning Charges for the TK-480/481 Series Radios

Model	*Description*	*List*
L-826	Tune TK-480/481	$17.00
L-328	Change Battery	0.00
L-834	Configure TK-480/481 for Intrinsically Safe **(Must Order KNB-17BK)** **Note:** Please see end of this pricepages section for a list of Intrinsically Safe Accessories for this radio.	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-845	Install CAE-3 (portable only)	9.00
L-853	Install firmware & enable NPSPAC operation in TK-480	84.00
	Note: NPSPAC and PassPort capabilty are not available in the same firmware option.	
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-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00
L-980	Configure TK-280/380/480/481/385 (KNB-22NC for Intrisically Safe **(Must Order KNB-22NC)**	70.00

IMPORTANT INSTRUCTIONS

[1] For intrinsically safe models TK-[190]/280/380/290/390/480/481: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations.

[2] **Important Note Regarding Intrisically Safe Certification:** Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.

[3] **KVC-5 & KVC-6 has the following features** : Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickly charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

[4] Retain the screws included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N99-2004-05.

[5] AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.
Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained. Nominal Life (hrs.) 5-5-90 duty cycle, battery save off, scan off. See chart below:

Transmit Power	1W	2W	4/5W
Nominal Battery Life (hrs.)	18		

[6] **Important Note regarding KNB-21N/22N:**
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

[8] Meets Intrinsically Safe requirements of Classes I, II, III, Division 1, Groups C, D, E, F, G, & Non-Incendive Class I, Division 2, Gropus C, D hazardous locations. The KNB-22NC is labeled "KNB-22NC is an authorized alternate to KNB-17B" and therefore the KNB-22NC can be sold into existing portable fleets using KNB-17BK and not compromise the portables I.S. certification. The KNB-22NC does NOT require re-adjustment of the Low Battery Warning settings. Portables previously inspected & readjusted by Kenwood Tuning Dept. or the dealership for KNB-17B Low Battery Warning should be re-adjusted for the Low Battery Warning factory default setting (per the service manual).

Intrinsically Safe Accessories for the TK-480/481 Series Radios

Model	*Description*	*List*
BATTERIES		
KNB-17BK[1, 2]	Intrinsically Safe Battery 1500 mAH, 7.2 VDC (4/5W), Nicad battery **[I.S. Certified]**	100.00
KNB-22NC[6]	Intrinsically Safe Battery 2100 mAh, 7.2VDC NiMH; requires KSC-24/24E charger **[I.S. Certified]**	117.00
MICROPHONES AND SPEAKERS		
KEP-1[1]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only) **[I.S. Certified]**	50.00
KCT-30[1]	3.5mm Audio Accessory Adapter for KEP-3/4 **[I.S. Certified]**	61.00
KEP-3[1]	Earphone kit w/3.5mm plug for KCT-30, 30" Cable (black) **[I.S. Certified]**	49.00
KEP-4[1]	Earphone kit w/3.5mm plug for KCT-30, 48" Cable (black) **[I.S. Certified]**	52.00
KMC-25[1]	Mil Spec, Noise Canceling, Speaker microphone **[I.S. Certified]**	92.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector (Beige) **[See Note A] [I.S. Certified]**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black) **[I.S. Certified]**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector (Beige) **[See Note A] [I.S. Certified]**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black) **[I.S. Certified]**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk) **[I.S. Certified]**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; **[See Note B] [I.S. Certified]**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db **[See Note B] [I.S. Certified]**	350.00
	Note A: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time.	
	Note B: Heavy-duty headsets; Allow min. 4 weeks delivery time.	

QE-2 G-Star®/ MDC1200 DIGITAL ANI MODULES by Cimarron Technologies

How to Order: Please see QE-2 Information and Order Sheet available from LMR Order Desk

1. Select the proper model/ quantity of radios, desired MDC-1200 (L-901) or G-Star (L-902) ANI format labor code.
2. Refer to the "QE-2 MDC-1200 Information/Order Sheet" available from the LMR Order Desk; select the ID format, ID codes and other feature options
3. Fax the Order Sheet with your radio order to your authorized Kenwood Rep or LMR Order Desk

All order sheet items must be filled out even if the feature option is "disabled" (incomplete Order Sheets will not be processed).

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).

b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

Notes:

Emergency "Man-down" features require an installed CAE-3 internal man-down tilt switch option (portables only).

Dealers can purchase a QE-2 programmer , Model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

QE-2	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Important Factory Install Only –Order L-901 or L-902**	128.00
CAE-3	Emergency Man-Down Internal Tilt Switch (mercury switch) [Factory Install Only – Must order L-845]. The CAE-3 is only sold for use w/Cimarron ANI Option modules for man-down emergency **[I.S. Certified]**	21.00

Transcrypt Secure Technologies Encryption

The following Transcrypt Secure Technologies encryption accessories (available from Transcrypt) and TK-280/380/480/481 combination when installed according to Transcrypt instructions meet Intrinsically Safe Classes I, II & III, Div.1, Groups C, D,E, F & G hazardous locations and Non-Incendive Class I, Div. 2, Groups C, D hazardous locations:

- ***SC20-400 (Compatible w/ TK-480 only, and NOT w/ TK-481)***
- ***SC20-430-12***
- ***SC20-416-12***
- ***SC20-460-12***

For more information on Transrcypt encryption please visit their website at www.transcryptsecure.com or contact them at:

Transcrypt Secure Technologies
4800 NW 1st Street, Suite 100
Lincoln, NE 68521
Phone: 402-474-4800
Fax: 402-479-8472

FleetSync® General Information

The 140, 150 & 80-Series radio firmwares include both the full set of FleetSync® Basic and FleetSync® Enhanced feature sets. However, the TK-2140/3140 & the TK-480/481/980/981 radios require the "FleetSync® Enhanced" Option to be ordered to "enable" the enhanced feature set. As of 10/01/02, the TK-280/380/780/880/7150/8150 come with the FleetSync® enhanced option pre-enabled.

FleetSync® Basic - "Basic" features are available in each radio as shipped from Kenwood (no actitvation is required). The entire Basic feature se is designed to operate between FleetSync® base and fleet radios (within the limitations of the radio controls and LCD display capabilities). Some Basic feature sets require a vendor-supplied base dispatch hardware and/or software for practical dispatch operations.

~ **PTT ANI (fleet portables/mobiles) -** digital ANI sent on each PTT using the FleetSync® ID.

~ **Caller ID / Caller ID Stack** [1] (portables/mobiles)- decodes an incoming PTT ID and displays the caller alphanumeric tag; Caller ID Stack stores the last 3 calls for review.

~ **Selective Call** (portables/mobiles) - allows base-to-fleet and fleet-to-fleet selective calling via a pre-stored 100 ID list[2]. Each ID can have an 16 character alphanumeric tag for easy selection and Caller ID recognition.

~ **Status Messaging** (portables/mobiles)- provides up to 50 pre-stored sixteen-character alphanumeric messages[3] permitting a base to send a larger variety of job-type messages and fleet radios to display and respond accordingly with complimentary acknowledgements (includes special reserved Emergency, Emergency Man-down*, Emergency Mode Off *, Horn Alert (mobiles)* and Radio Stun/Acknowledge/Resurrect statuses are available).

[1] *80-Series: starting with Ver. 2.0 radios;*

[2] *80-Series: starting with Version 2.0 radios only; previous versions had a 32 ID capacity;*

[3] *80-Series: starting in Version 2.0 radios only; previous versions had a 32 Status Message capacity*

FleetSync® Enhanced Option - The FleetSync® Enhanced Option, if not already pre-enabeld, must be "enabled" in the radio by ordering the appropriate labor codes for a Kenwood install or ordering the appropriate quantities of FS Enhanced options loaded in hardware key(s) and a KPG-65ED as a dealer field retrofit kit (see model price lists). This enables the following Enhanced features in addition to the Basic feature set:

~ **PC Serial Control** (mobiles only)- PC Serial Interface enables serial line communications between an 80-Series mobile radio and a FleetSync® compatible computer software application or peripheral device (enables the serial COM port I/O's of an 80-Series mobile) such as CAD/messaging, AVL/messaging software and devices such as status messaging units, desktop ANI encoder/decoder units and mobile data terminals (check with vendor).

~ **Short Text Messaging** (portables/mobiles)- decodes, stores and displays in the radio up to four 48-character Short Text messages

~ **Long Text Messaging** (mobiles only)- decodes and stores one 1024-character message for output to an external KDS-100 or decode-display device. A Long Text message is NOT stored in mobile memory or displayed in the mobiles LCD.

~ **FleetSync® GPS Data** (mobiles only; requires special modifications)- FleetSync® Enhanced option enables a FleetSync® mobile to use the NMEA-0183 GPS serial data output (in RS-232C format) from a GPS receiver and send this data in the FleetSync® air protocol data format (the type GPS data sent is programmable in the mobile). This requires the FleetSync® Enhanced option in both fleet and base mobiles; an aftermarket GPS receiver (internal or external); special hardware modifications to connect the GPS receiver. Call Kenwood techncial support for GPS receiver application notes and see Manning Rastrac information in the AVL price pages for software.

FleetSync® for 80-Series Portables & Mobiles

Installation / Tuning Charges

Model	*Description*	*List*
Kenwood-installed FleetSync® Enhanced Option		
L-875	FleetSync® Enhanced Option- enable in 80-Series (mobile/portable)	50.00
Dealer-installed FleetSync® Enhanced Options		
	Note: Instead of L-875, options L-905/906/907; SRB08698 Hardware Key and KPG-65ED can be purchased for dealer field installation of the FleetSync® Enhanced option	
L-905	FleetSync® Enhanced Option (field retrofit) for 80-series; Price each for qty. 1-24	50.00
	Note: Must order SRB08698 Hardware Key also; requires KPG-65ED	
L-906	FleetSync® Enhanced Option (field retrofit) for 80-series; Price each for qty. 25-99	50.00
	Note: Must order SRB08698 Hardware Key also; requires KPG-65ED	
L-907	FleetSync® Enhanced Option (field retrofit) for 80-series; Price each for qty. 100+	50.00
	Note: Must order SRB08698 Hardware Key which holds 100 ESN's maximium; multiple keys must be oders over 100. Also requires KPG-65ED.	
SRB08698 [2]	Hardware Key (Sentinel Super Pro)	N/A
	Note: SRB08698 hardware key holds 100 ESN's maximum; multiple keys must be purchased for orders over 100.	
KPG-65ED [3]	FleetSync® Enhanced Option Installation Software	10.00
	Note: Required for L-905/906/907 & SRB08698 use. This software is re-usable on future orders of L-905/906/907	

Option Notes:

1. KPG-49D: As of June 2001, 80-Series "Version 2.0" radio productions were released (see LMR Sales Bulletin I-01-26LM for details).
~ KPG-49D V3.XX programming software is required for Version 2.0 radios. KPG-49D V3.XX programming software will program all early (pre-VER 2.0) radios except the early TK-480/481 production (the KPG-35D must be used). On all other models, the 2-tone data defaults to factory settings and will require re-entry.
~ KPG-49D V2.XX or earlier will not program any new Version 2.0 radios. V2.XX programs pre-Version 2.0 radios that were the first version to include FleetSync® (TK-280/380/780/880/980/981-production starting 7/99 and TK-980/981 production starting 3/99).
~ KPG-49D V1.XX should be retained to program older TK-280/380/780/880 radios that do not have FleetSync® capability; the KPG-35D V1.XX should be used to program earlier TK-480/481 radios that do not have FleetSync®.

2. The SRB08698 hardware key requires L-905, 906 or 907 options to be loaded into it. The hardware key requires the KPG-65ED to activate FleetSync® Enhanced Options in an 80-Series radio. The SRB08698 hardware key can be returned when empty for 50% credit. Call the LMR order desk for an RMA#. Credit will NOT be issued for the L-905/906/907 options.

3. The KPG-65ED is a one-time order and may be re-used on future orders of L-905/906/907. The SRB08698 hardware key must be installed on the PC parallel port for the KPG-65ED to operate.

PassPort® Options (Kenwood-installed)

FOR NEW RADIO ORDERS ONLY

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:
1. Order the ESN/Firmware option per L-876, L-877 or L-878

Other required items:
a. 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.
b. KPG-49D is required only if LTR or conventional systems are to also be programmed in the PassPort® radio.

Model	*Description*	*List*
Labor Code		
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
L-938	Install PassPort® ESN options and firmware in TK-380/880 models (with new radios purchases beginning 10/1/02)	0.00
PassPort® Radio Programming Software		
KPG-63D	PassPort® Radio Programming Software V2.00 or higher	65.00

PassPort® Options (Field-installation kits)

FOR DEALER / OPERATOR FIELD CONVERSIONS

Ordering Instructions

1. Order the ESN key/firmware Labor Code options: L-892, L-893 or L-894; specify model radio(s).
Pre-loaded ESN hardware key(s) with the ordered quantities of ESN's and 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-usable 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 tbe programmed in the PassPort® radio.

4. The KPG-49D radio programming software is required for LTR & conventional site programming[2].

Model	*Description*	*List*
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

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*

SRB08698	Hardware Key (Sentinel Super Pro)	83.33

NOTES:
· Requires purchase of L-892, 893 or 894
· Sales of L-892, 893, 894 are NOT refundable
· Maximum 100 ESNs per hardware key
· Requires KPG-64D to download PassPort TM ESN options into an 80-Series radio.
· Important: The hardware key is registered to the computer that it is first used on; it cannot be used on other computers.
· Empty hardware keys can be returned for 50% credit; call the LMR order desk for RMA #.
· Important: Retain depleted keys until a new one is received. It will be required to register the new key to the same computer.

KPG-64D	PassPort® ESN Field Installation Software V1.12 · V1.12: supercedes V1.11; upgrade to V1.12 recommended for improved ESN file database features	10.00
KPG-63DK	PassPort® Radio Programming Software V2.00 or higher	$65.00

KENWOOD

Jun-05

Last Revised: 06/01/05

Land-Mobile Price List

TK-2100V1

ProTalk® Portable Radio

TK-2100 FEATURES:

·Included Accessories: Battery ,Charger, Antenna and Belt Clip.

·VHF 2 Watts
· 1 Channel Model
· User Programmable Frequencies
· Loud 500 mW Audio
· Programmable QT Per Channel
· Small & Lightweight
· Rugged MIL-STD 810 C, D, E, & F
· Die-Cast Chassis
· Polycarbonate Case
· Weather-Sealed Construction
· Two Color LED
· T-O-T (Time-out-Timer)
· Busy Ch. Lockout
· Low Battery Alert
· 2 Year Limited Warranty

Model	*Description*	*List*
VHF	***KNB-14BK battery, KSC-23BK charger, and KRA-19BK antenna included***	
TK-2100V1	150-160 MHz VHF 2W, 1 Ch. **(KRA-19BK helical antenna included) - Standard Package**	$227.00

Accessories for TK-2100V1 Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz (TK-2100)	$17.00
KRA-15AM	UHF whip antenna 450-490 MHz (TK-3100/3101)	17.00
KRA-16M	VHF stubby antenna 148-162 MHz (TK-2100/2200) --- **same as supplied w/TK-2100V's**	13.00
KRA-17M	UHF stubby antenna 450-490 MHz (TK-3100/3200/3101)	13.00
KRA-22M	VHF low profile antenna 148-162 MHz (TK-2200)	13.00
KRA-23M	UHF low profile antenna 450-490 MHz (TK-3200)	13.00
KRA-26M	VHF helical antenna 146-162 MHz (TK-2100/2200) --- **same as supplied w/TK-2200V's**	14.00
KRA-27M	UHF whip antenna 440-490 MHz (TK-3100/3200/3101) --- **same as supplied w/ TK-3200U's**	14.00
BATTERIES AND CHARGERS		
KBP-1	KNB-14 size 6 cell AA Alkaline pack, black (batteries not incl.) **For 1 Watt Use Only @ 4 hrs. 5-5-90 duty**	20.00
KNB-14	600 mAh, 7.2 VDC (4/5W), NiCd battery - **same as supplied w/radio**	37.00
KNB-15A	1100 mAh, 7.2 VDC (4/5W) extended capacity NiCd battery	47.00
KNB-20N[1]	1600 mAh NiMH 11 hours life @ 5-5-90 **Note:** KSC-24 charger required - not compatible with Kenwood NiCd chargers or earlier model leather cases	47.00
KNB-29N[1]	1500 mAh NiMH 14 hours life @ 5-5-90 duty (TK-2200/3200) **Note:** KSC-31 charger required - not compatible with other chargers or leather cases	35.00
KMB-21	Six Unit Charger Adapter for the KSC-23BK/31 (Chargers included with TK-2100/2200/3100/3200; not included with KMB-21) 2 X 3 charger configuration	165.00
KMB-25	Six Unit Charger Adapter for the KSC-31K, low profile, internal power strip, 2x3 charger configuration (chargers not included) --- **Available in June**	182.00
KSC-31K	Fast rate single unit charger for KNB-29N NiMH battery) (TK-2200/3200)	30.00
KSC-15	Regular rate single unit desk charger	28.00
KSC-24	Rapid rate single unit dual-chemistry charger (for NiCd & NiMH batteries) **Note:** Compatible with KNB-14/15A/20N; KMB-16 DC Gang Charger Adapter; KVC-4 DC Charger Adapter.	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,19 (chargers not included)	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,24 (chargers not included)	80.00

Accessories for TK-2100V1 Series Radios

Model	Description	List
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip (TK-2200/3200)	$8.00
KBH-8DS	Swivel belt loop with D-Ring	25.00
KLH-126	Nylon case for TK-2200/3200 (Black)	14.00
KLH-83B	Heavy duty carrying case w/bungi-cord for TK-2100. **Note:** Compatible with KNB-14/15A/20N	35.00
KLH-84B	Nylon case for TK-2100 (Black)	14.00
KLH-6SW	Swivel belt loop / detachable swivel back for KLH-83B	21.00
KWR-1	Water resistant bag (TK-2100/2200/3100/3200/3101)	29.00
MICROPHONE AND SPEAKERS		
EMC-3	Clip Mic w/earphone	29.95
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
HMC-3	Headset w/PTT & VOX	59.95
KEP-2	2.5mm earphone kit for KMC-17 Speaker Mics (Black only). **[KEP-2 & KMC-21 are not plug-compatible].**	50.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise canceling boom mic & in-line PTT (black); NRR24 db	350.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise canceling boom mic & in-line PTT (black); NRR24 db	320.00
KHS-7	Single muff headset w/boom mic (black)	67.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT (black)	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KMC-17	Speaker microphone (Built-in 2.5mm miniature earphone jack)	82.00
KMC-21	Compact speaker microphone	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface cable (powered by P.C.s serial port)	N/A
KPG-48DK	Field Programming Unit for TK-2100	N/A
KPG-88DK	Windows® Programming Software for TK-2200/3200 (98, ME, 2000 & XP compatible)	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
C100569-19	KHS-8BE/9BE Replacement eartips, 10 per pack, beige (Recommended for sanitary purposes)	10.00
C100569-2	KHS-8BL/9BL Replacement eartips, 10 per pack, black	10.00
C100693-19	KHS-8BE/9BE Acoustic tube replacement kit, beige (Clear coiled tubing)	16.35
C100693-2	KHS-8BL/9BL Acoustic tube replacement kit, black	16.35
C100733	KHS-8/9 Noise attenuating kit, 1 set per pack (Foam ear tips pieces)	4.00
C807027-05	KHS-7 Foam mic windscreen, 5 pcs per pack	6.80
C807028-05	KHS-7 Foam ear cushion, 2 pcs per pack	6.50
W08-0551-05	AC Adapter (**same as supplied w/ TK-2100** --- Reg. Rate single unit desk charger not incl.)	16.85
W08-0552-15	Regular rate single unit desk charger (**same as supplied w/TK-2100** --- AC Adapter not incl.)	22.83

Installation / Tuning Charges for TK-2100

Model	Description	List
L-852	Change channel to other frequencies* or program	25.00

***Note:** ProTalk® channels can be changed by the Dealer by following the Instructions Manual.

KENWOOD

Dec-05

Last Revised: 12/15/05

Land-Mobile Price List

TK-2140/3140

VHF / UHF Trunking / Conventional Ultra Compact Portable Radios

Model	*Description*	*List*
VHF	***Spring Action Belt Clip incl.; Antenna, Battery & Charger not incl.***	
TK-2140	136-174 MHz 5W, LTR-32 Systems, CONV-250 CH.	$565.00
UHF	***Spring Action Belt Clip incl.; Antenna, Battery & Charger not incl.***	
TK-3140K	450-490 MHz 4W, LTR-32 Systems, CONV-250 CH.	582.00
TK-3140K2	470-512 MHz 4W, LTR-32 Systems, CONV-250 CH.	582.00
TK-3140K3	400-430 MHz 4W, LTR-32 Systems, CONV-250 CH.	582.00

TK-2140/3140 FEATURES:

GENERAL FEATURES

5W VHF / 4W UHF Transmit Power
Wide Band Frequency Ranges
12.5 / 25 kHz Channel Spacing
Programmable Power Per Channel
Companded Audio Per Channel (wide & narrow*)
500 mW Audio Power
10 Character Alphanumeric Display
3 Numeric Character Sub-Display
Dot Matrix LCD (Lighted)
LCD Operational Icons
Two Color Tri-State LED
5 Programmable Function Keys
Optional Speaker Mic (w/ 2 PF Keys)
Recessed Orange Emergency/AUX Key
PTT ID Side-Tone (FleetSync®/DTMF ANI)
PTT ID TA Inhibit
Emergency Type (FleetSync® & DTMF)
Emergency Calling Feature
Key Lock Feature
DTMF Decode Selective Call
DTMF Deadbeat Disable
DTMF PTT ID & DTMF Emergency ID
Alert with Transpond (2-Tone, DTMF)
Call Alert Tone: Mom or Continuous
(2-Tone, DTMF & FleetSync®)
Auto-Dial Memory (32 numbers)
Key Lock Feature
Low Battery Alert
Battery Status LCD
Weather-Sealed Accessory Connector
PTT Release Tone
Tone Offset Volume; Alert Tone Freq.
Control Tones On/Off
Embedded Message (64 Char.)
Data Password ("Anti-piracy")
Radio Password (Radio Lock)
Clone Capability (enable/disable)
Front Panel Field Programming & Tuning
Windows® PC Programming & Tuning
Flash ROM Firmware
Firmware Version (LCD)
MIL810 C, D & E (11 categories)
LiI-on / NiMH / NiCad Batteries (1950 / 2000 / 1200 mAh)
PassPort® Option (no charge)

CONVENTIONAL MODE

250 CH (aggregate max.)
Single Priority Scan
Single/Multi-Group Scan
Scan Revert Channel Display
Scan Delete/Add
Nuisance Delete
QT/DQT Encode & Decode
Operator Selectable Tone (16 OST)
2-Tone Decode (A, B, C, A-B, A-C, C-B; 3 decode pairs)
BCL, BCL Override, TOT & TA

TRUNKED MODE

32 Systems (max.)
Trunked LTR & Conventional Systems
250 Group IDs (aggregate max.)
Single Priority Scan (within any Conv. System only)
LTR Talk Around / Scan Revert Group Display
System Scan & Group Scan / Auto System Search

FLEETSYNC® / FLEETSYNC® II***

Programmable for either FleetSync® or FleetSync® II protocols
PTT ID (Digital ANI; 100 ID List capacity)
Caller ID Display (per CH; BOT only)
Caller ID Stack (last 3 calls)
Status Messaging (50 Msg. List capacity)
70 Custom Dispatch Messages
9 Reserved Special Use Messages
ST# 98 - Man Down Emergergency (portables)
ST# 99- Emergency Status
ST# 88- Emergency Mode Off
ST# 90- Stun radio (No TX)
ST# 91- Stun radio (No TX / No RX audio)
ST# 92- Turn off Stun
ST# 93- ACK stun is ON
ST# 94- ACK stun is OFF
ST# 80-87, 95-97 (Reserved for future use)
Selective Call
Short Text Messages** (stored/display)
**** Fleetsync® Enhanced Option required**
***** FleetSync® II air protocol is not compatible with the original FleetSync® air protocol.**

INCLUDED ITEMS:

Spring Action Belt Clip
Instruction Manual

Accessories for the TK-2140/3140 Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz	$17.00
KRA-14M2	VHF helical antenna 162-174 MHz	17.00
KRA-14M3	VHF helical antenna 136-150 MHz	17.00
KRA-15AM	UHF whip antenna 450-490 MHz	17.00
KRA-15AM2	UHF whip antenna 470-512 MHz	17.00
KRA-15AM3	UHF whip antenna 403-430 MHz	17.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 136-150 MHz	13.00
KRA-17M	UHF stubby antenna 450-490 MHz	13.00
KRA-17M2	UHF stubby antenna 470-512 MHz	13.00
KRA-17M3	UHF stubby antenna 403-430 MHz	13.00
KRA-22M	VHF short helical antenna 148-162 MHz	13.00
KRA-22M2	VHF short helical antenna 162-174 MHz	13.00
KRA-22M3	VHF short helical antenna 136-150 MHz	13.00
KRA-23M	UHF short whip antenna 450-490 MHz	13.00
KRA-23M2	UHF short whip antenna 470-512 MHz	13.00
KRA-23M3	UHF short whip antenna 403-430 MHz	13.00
BATTERIES AND CHARGERS		
KBP-5	AA Alkaline Refillable Battery Pack for TK-2140/3140 (6 AA Alkaline 9V **Battery cells not incl.**	47.00
KNB-25A	1200 mAh, 7.2 VDC Ni-Cd battery	49.00
KNB-26N[4]	2000 mAh, 7.2 VDC Ni-MH battery	67.00
KNB-35L	1950 mAh, 7.4 VDC Lithium Ion battery	94.00
KNB-40LC[1, 2]	1950 mAh, 7.2 VDC Lithium Ion battery **[Intrinsically Safe Option] Must order L-942**	107.00
	NOTE: The KNB-40LC is the only intrinsically safe battery approved for the TK-2140/3140; the KNB-25A, KNB-26 and KNB-35L are not intrinsically safe approved.	
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-25	110 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-25E	220 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N	30.00
KSC-30E	220 volt Regular rate single unit charger for KNB-25A/26N	30.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-30 (chargers not included)	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24, 25 (chargers not included)	80.00
CARRYING ACCESSORIES		
KBH-12	Spring action belt clip - Same as Supplied	8.00
KLH-114	Soft leather case for TK-2140/3140 (Black)	42.00
KLH-116	Heavy-Duty Leather Case w/Swivel Belt Loop for TK-2140/3140 (all batteries; black)	47.00
KWR-1	Water resistant bag	29.00
MICROPHONES AND SPEAKERS		
KEP-1[1]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only) **[I.S. Certified]**	50.00
KCT-30[1]	2.5mm Audio Accessory Adapter for KEP-3/4 **[I.S. Certified]**	61.00
KEP-3[1]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) **[I.S. Certified]**	49.00
KEP-4[1]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) **[I.S. Certified]**	52.00
KMC-25[1]	MIL-SPEC, Noise canceling Speaker mic **[I.S. Certified]**	92.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **[I.S. Certified]**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black) **[I.S. Certified]**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **[I.S. Certified]**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black) **[I.S. Certified]**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk) **[I.S. Certified]**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; (Heavy-duty headsets; Allow min. 4 weeks delivery time). **[I.S. Certified]**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db. (Heavy-duty headsets; Allow min. 4 weeks delivery time). **[I.S. Certified]**	350.00
SERVICE RELATED ACCESSORIES		
KPG-36	Programming Interface Cable	N/A
KPG-74DK	P.C. Programming Software for TK-2140/3140	N/A

Installation/Tuning Charges for the TK-2140/3140 Series Radios

Model	*Description*	*List*
L-836	Assemble KMB-16 with six KSC-25	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-924	Tune TK-2140/3140	25.00
L-942	Configure TK-2140/3140 for Intrinsically Safe (Radio requires KNB-40LC I.S. appoved battery)	70.00

1. For intrinsically safe models TK-2140/3140: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups A, B, C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups A, B, C & D hazardous locations.
2. Important Note Regarding Intrisically Safe Certification: Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. withc proper Kenwood certification can result in serious safety and/or legal liability issues for your company.
3. AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.
Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transr power will lower and decrease during transmit and as the battery is drained.
4. Important Note regarding KNB-26N NiMH battery:
   - NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
   - NiMH batteries capacity life is slightly lower than NiCd: NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles

FleetSync® for TK-2140/3140 Series Portables

This radios firmware includes both FleetSync® Basic and Enhanced feature sets. However, the "FleetSync® Enhanced" features must be "activated" in the radio by purchasing the FleetSync Enhanced Option.

FleetSync® Basic Features - "Basic" features are available in each radio as shipped from Kenwood (no actitvation is required). The entire Basic feature set is designed to operate between other FleetSync® capable base and fleet radios. Some Basic feature sets require a base dispatch PC application software and/or dispatch hardware device for practical dispatch operations.

PTT ANI - digital ANI sent on each PTT using the FleetSync® ID.

Caller ID / Caller ID Stack - decodes an incoming PTT ID and displays the caller alphanumeric tag; Caller ID Stack stores the last 3 calls for review.

Selective Call - allows base-to-fleet and fleet-to-fleet selective calling via a pre-stored 100 ID list. Each ID can have an 16 character alphanumeric ta for easy selection and Caller ID recognition.

Status Messaging- provides up to 50 pre-stored sixteen-character alphanumeric messagespermitting a base to send a larger variety of job-type messages and fleet radios to display and respond accordingly with complimentary acknowledgements. Iincludes special reserved statuses for: Emergency, Emergency Man-down, Emergency Mode Off, Horn Alert (mobiles) and Radio Stun/Acknowledge/Resurrect statuses.

FleetSync® Enhanced Option Features- The FleetSync® Enhanced Option must be "activated" in the radio at an extra charge by ordering labor code L-928 for a Kenwood install or by ordering the appropriate quantities oL-925/926/927, SRB08698 and KPG-65ED dealer field retrofit options. This enables the following enhanced features in addition to the Basic feature set:

PC Serial Control (mobiles only)- PC Serial Interface enables mobile COM port I/O serial data line for communications between an FleetSync®-capable mobile radio and a FleetSync®-compatible PC application software or a peripheral device (e.g. KDS-100).

Short Text Messaging- decodes, stores and displays up to four 48-character Short Text messages

Long Text Messaging (mobiles only)- decodes and stores one 1024-character message for output to an external MDT or decode-display device.

FleetSync®-AVL (mobiles only)- embeds GPS NMEA information in FleetSync® data packets and sends them to a base/control station interfaced with a FleetSync®-AVL compatible software

Installation / Tuning Charges for FleetSync®

Model	*Description*	*List*
To program all 140-Series radio parameters (including FleetSync® parameters):		
KPG-36	Programming Interface Cable	N/A
KPG-74DK	P.C. Programming Software for TK-2140/3140 portable (Windows® 95/98 compatible)	N/A
Kenwood Installed FleetSync® Enhanced Option		
L-928	FleetSync® Enhanced Option	50.00
Dealer Installed FleetSync® Enhanced Options		
	Note: Instead of L-928, optionsL-925/926/927; SRB08698 Hardware Key and KPG-65ED can be purchased for dealer field installation of the FleetSync® Enhanced option	
L-925	FleetSync® Enhanced Option (field retrofit) for 40-series; Price each for qty. 1-24	50.00
	Note: Must order SRB08698 Hardware Key also; requires KPG-65ED	
L-926	FleetSync® Enhanced Option (field retrofit) for 40-series; Price each for qty. 25-99	50.00
	Note: Must order SRB08698 Hardware Key also; requires KPG-65ED	
L-927	FleetSync® Enhanced Option (field retrofit) for 40-series; Price each for qty. 100+	50.00
	Note: Must order SRB08698 hardware key which holds also 100 ESN's maximum; multiple keys must be purchased for orders over 100. Also requires KPG-65ED.	
SRB08698 [1]	Hardware Key (Sentinel Super Pro)	0.00
	Note: SRB08698 hardware key holds also 100 ESN's maximum; multiple keys must be purchased for orders over 100	
KPG-65ED [2]	FleetSync® Enhanced Option Installation Software	10.00
	Note: Required for L-925/926/927 & SRB08698 use. This software is re-usable on future orders of L-925/926/927	

Option Notes:

1. The SRB08698 hardware key requires L-925, 926, or 927 options to be loaded into it. The hardware key requires the KPG-65ED to activate FleetSync® Enhanced Options in a 40-Series radio. The SRB08698 hardware key can be returned when empty for 50% credit. Call the LMR order desk for an RMA#. Credit will NOT be issued for the L-925/926/927 options.

2. The KPG-65ED is a one-time order and may be re-used on future orders of L-925, 926, or 927. The SRB08698 hardware key must be installed on the PC parallel port for the KPG-65ED to operate.

PassPort® Options (Kenwood-installed)

FOR NEW RADIO ORDERS ONLY

Ordering Instructions

For TK-2410/3140 new radio orders, the Kenwood-installed PassPort® ESN / firmware option is no charge: Order the PassPort® ESN/Firmware option L-971 for each PassPort® radio.

Other required items:
a. KPG-98D Radio Programming Software: The KPG-98D programs PassPort®, LTR and Conventional modes. The KPG-98D is ONLY for programming a 140-Series portable with the PassPort ® option installed and should**NOT** be used to program a standard LTR/Conventional 140-Series portable (use the KPG-74D).

Model	*Description*	*List*
L-971	Install PassPort® ESN option and firmware; NO CHARGE for new TK-2140/3140 orders	0.00
PassPort® Radio Programming Software (for TK-2140/3140 only)		
KPG-98DK	PassPort® Programming software for TK-2140/3140 portables only. Windows® 98/ME/2000 & XP compatible	65.00

PassPort ® Options (Field-installation kits)

FOR DEALER / OPERATOR FIELD CONVERSIONS

Ordering Instructions

1. Order the ESN key/firmware Labor Code options: L-892, L-893 or L-894; specify model radio(s).
Pre-loaded ESN hardware key(s) with the ordered quantities of ESN's and 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 Installation Software: This software is re-usable on subsequent orders of ESN hardware key options purchases. Note: The TK-2140/3140
b. KPG-98D Radio Programming Software: The KPG-98D programs PassPort®, LTR and Conventional modes. The KPG-98D is ONLY for programming a 140-Series portable with the PassPort ® option installed and should NOT be used to program a standard LTR/Conventional 140-Series portable (use the KPG-74D).

Model	*Description*	*List*
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
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		
SRB08698	Hardware Key (Sentinel Super Pro)	83.33

NOTES:
· Requires purchase of L-892, 893 or 894
· Sales of L-892, 893, 894 are NOT refundable
· Maximum 100 ESNs per hardware key
· Requires KPG-64D to download PassPort ® ESN options into an 80-Series radio.
· Important: The hardware key is registered to the computer that it is first used on; it cannot be used on other computers.
· Empty hardware keys can be returned for 50% credit; call the LMR order desk for RMA #.
· Important: Retain depleted keys until a new one is received. It will be required to register the new key to the same computer.

KPG-64D	PassPort® ESN Field Installation Software	10.00
KPG-98D	PassPort® Programming software for TK-2140/3140 portables ONLY. Windows® 98/ME/2000 & XP compatible	65.00

KENWOOD

Dec-05

Last Revised: 12/15/05

Land-Mobile Price List

TK-2160/3160

VHF / UHF Ultra Compact Portable Radios

Radio Packages

Each Package includes; RADIO, BATTERY, CHARGER, ANTENNA, & BELT CLIP

Model	Description	List
VHF Standard Package		
TK-2160SK-P	*TK-2160 + **KNB-25A** + **KSC-30** + KRA-26M + Belt Clip* *Ni-Cd (1200mAh) Standard Chg Helical Antenna*	$352.00
VHF Premium Package		
TK-2160RK-P	*TK-2160 + **KNB-35L** + **KSC-25** + KRA-26M + Belt Clip* *Li-Ion (1950mAh) Rapid Rate Chrg Helical Antenna*	426.00
UHF Standard Package		
TK-3160SK-P	*TK-3160K + **KNB-25A** + **KSC-30** + KRA-27M + Belt Clip* *Ni-Cd (1200mAh) Standard Chrg Helical Antenna*	368.00
UHF Premium Package		
TK-3160RK-P	*TK-3160K + **KNB-35L** + **KSC-25** + KRA-27M + Belt Clip* *Li-Ion (1950mAh) Rapid Rate Chrg Helical Antenna*	442.00

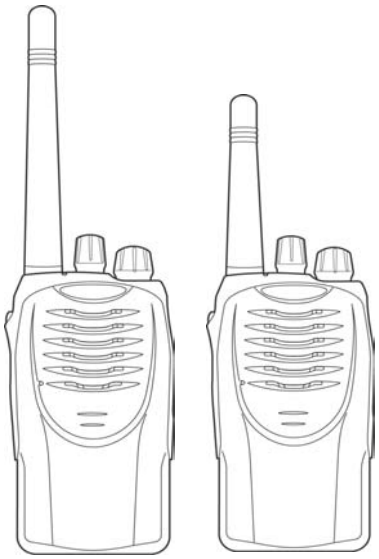
TK-2160/3160 FEATURES:

GENERAL FEATURES
- 16 Channels (max.)
- 5W VHF / 4W UHF Transmit Power
- Wide Band Frequency Ranges
- 12.5 / 25 kHz Channel Spacing
- Programmable Power Per Channel
- Companded Audio Per Channel (wide & narrow*)
- 500 mW Audio Power
- Two Color Tri-State LED
- Mechanical Channel Selector with stops
- Weather-Sealed Accessory Connector
- Single Priority or Normal Scan
- Scan Revert Channel
- Scan Delete/Add (fpu fixed)
- Scan Temporary Delete (nuisance delete)
- VOX Circuit (programmable sensitivity, delays)
- 3 Programmable Function Keys (includes orange key)
- Recessed Orange Emergency/AUX Key
- PTT ID Side-Tone (FleetSync® & DTMF ANI)
- Emergency Type (FleetSync® Status & DTMF Emergency ANI)
- Emergency Calling Feature
- Voice Inversion Scrambler built-in
- QT/DQT Encode & Decode
- 2-Tone Decode (3 decode pairs assignable per channel) A-B/ A-C/ A-D/ B-A/ B-C/ B-D/ C-A/ C-B/ C-D/ D-A/ D-B/ D-C/ Long A/ Long B/ Long C; 288.5 to 3000.0 Hz (0.1 Hz steps)
- 2-Tone Encode (1 tone pair)
- DTMF Decode Selective Call
- DTMF Stun (deadbeat disable)
- DTMF PTT ID & DTMF Emergency ID
- Alert with Transpond (2-Tone, DTMF)
- Call Alert Tone: Normal, Continuous or Special (2-Tone or DTMF)
- Special Alert Tone Freq. & 16 tone Pattern
- Low Battery Alert (TX or Always)
- BCL per ch (QT/DQT, carrier or Opt. Signaling)
- BCL tone (clear to PTT tone)
- Time Out Timer & Talk Around
- Power/Control/Warn Tones On/Off
- Tone Volume Level
- Mic Sense (high/low fpu setting)
- Embedded Message (64 Char.)
- Data Password
- PC Programming (Windows®)
- English/Spanish Language Programming Screen Setup
- MIL810 C, D, E & F(11 categories)- inlcudes "blowing rain"
- IP54/55 dust, waterspray & water jet protected
- NiCad (8hr.), Lithium Ion (9Hr.) & NiMH (12 Hr.) Batteries (1200 / 1950 / 2000 mAh)
- Intrinsically Safe Option

FLEETSYNC® FEATURES*
- PTT ID (Digital ANI)
- Emergency Status (ST# 99)
- Selective Call

* Note: not FleetSync® II compatible

INCLUDED ITEMS
- Spring Belt Clip
- Instruction Manual



Radio Only

Choose Acc. from Next Page to Customize a Radio Package

Model	Description	List
VHF	***Spring Action Belt Clip included; PURCHASE ANTENNA, BATTERY & CHARGER SEPARATELY***	
TK-2160	136-174 MHz 5W, Conventional 16 Channels	$259.00
UHF	***Spring Action Belt Clip included; PURCHASE ANTENNA, BATTERY & CHARGER SEPERATELY***	
TK-3160K	450-490 MHz 4W, Conventional 16 Channels	275.00
TK-3160K2	470-512 MHz 4W, Conventional 16 Channels (Introduced Feb. 2004)	275.00
TK-3160K3	400-430 MHz 4W, Conventional 16 Channels (Introduced Feb. 2004)	275.00

Accessories for the TK-2160/3160 Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.00
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.00
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.00
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.00
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.00
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.00
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
BATTERIES AND CHARGERS		
KBP-5[1]	AA Alkaline Refillable Battery Pack for TK-140/160/170-Series Portables (6 AA Alkaline 9V) **Battery cells not incl.**	47.00
KNB-25A	1200 mAh, 7.2 VDC Ni-Cd battery	49.00
KNB-26N[2]	2000 mAh, 7.2 VDC Ni-MH battery	67.00
KNB-35L	1950 mAh, 7.4 VDC Lithium Ion battery	94.00
KNB-40LC[3]	1950 mAh, 7.2 VDC Lithium Ion battery **[Intrinsically Safe Option]**	107.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-**25** rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-25	110 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-25E	220 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N	30.00
KSC-30E	220 volt Regular rate single unit charger for KNB-25A/26N	30.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-30 (chargers not included)	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24, 25 (chargers not included)	80.00
CARRYING ACCESSORIES		
KLH-117	Heavy-Duty Leather Case w/Swivel Belt Loop for TK-2160/3160 (all batteries; black)	47.00
KBH-12	Spring action belt clip - Same as Supplied	8.00
KWR-1	Water resistant bag	29.00
MICROPHONES AND SPEAKERS		
KEP-2 [3]	2.5mm earphone kit for KMC-17 Speaker Mics (Black). [Intrinsically Safe Approved Accessory]	50.00
KHS-1 [3]	Headset with VOX/PTT (light-duty use) **[Intrinsically Safe Approved Accessory]**	62.00
KHS-10-BH [3]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db **[Intrinsically Safe Approved Accessory]**	350.00
KHS-10-OH [3]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 dl **[Intrinsically Safe Approved Accessory]**	320.00
KHS-7 [3]	Single muff headset w/boom mic (black) **[Intrinsically Safe Approved Accessory]**	67.00
KHS-7A [3]	Lt. Wt Single muff headset w/boom mic & in-line PTT (black) **[Intrinsically Safe Approved Accessory]**	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VO ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	26.95
KMC-17 [3]	Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approved Accessory]**	82.00
KMC-21 [3]	Compact speaker microphone **[Intrinsically Safe Approved Accessory]**	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface Cable	N/A
KPG-82DK	P.C. Programming Software for TK-2160/3160 (Windows® 98SE, 2000, XP, Me compatible)	N/A

Installation/Tuning Charges for the TK-2160/3160 Series Radios

Model	*Description*	*List*
L-836	Assemble KMB-16 with six KSC-25	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-953	Tune TK-2160/3160	25.00
L-976	Configure TK-2160/3160 for Intrinsically Safe (MUST ORDER KNB-40LC)	70.00

1. AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.
Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained.
2. Important Note regarding KNB-26N NiMH battery:
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for prope radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles
3. For intrinsically safe models: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups A, B, C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups A, B, C & D hazardous locations.
Important Note Regarding Intrisically Safe Certification: Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.

Land-Mobile Price List

TK-2170/3170

VHF / UHF Compact Portable Radios

Radio Packages ***Each Package includes; RADIO, BATTERY, CHARGER, ANTENNA, & BELT CLIP***

Model	Description	List
VHF Standard Package		
TK-2170K-AKP	*TK-2170K + **KNB-25A** + **KSC-30** + KRA-26M + Belt Clip* *Ni-Cd (1200mAh) Standard Chg Helical Antenna*	$442.00
VHF Premium Package		
TK-2170K-LKP	*TK-2170K + **KNB-35L** + **KSC-25** + KRA-26M + Belt Clip* *Li-Ion (1950mAh) Rapid Rate Chrg Helical Antenna*	$517.00
UHF Standard Package		
TK-3170K-AKP	*TK-3170K + **KNB-25A** + **KSC-30** + KRA-27M + Belt Clip* *Ni-Cd (1200mAh) Standard Chg Whip Antenna*	$458.00
UHF Premium Package		
TK-3170K-LKP	*TK-3170K + **KNB-35L** + **KSC-25** + KRA-27M + Belt Clip* *Li-Ion (1950mAh) Rapid Rate Chrg Whip Antenna*	$532.00

TK-2170/3170 FEATURES:

GENERAL FEATURES
- 5 W (136-174 MHz) Models
- 4 W (450-490, 400-430 MHz) Models
- Conventional Zones
- 128 Channels / 128 Zones
- Single Priority Scan
- Single & Multi-Zone Scan
- List Scan
- Scan Revert / Revert Display
- Priority Channel Stop Tone
- CH / Zone Delete/Add
- 8 Character Alphanumeric Aliases
- Backlit LCD
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- 4 Front Panel PF keys
- 3 Side PF Keys
- Oranqe Emergency/AUX Key
- 12-Key DTMF/PF Keypad Models
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Easy Option Port (20-Pin)
- Emergency Call Features
- Emergency Mic Sensitivity
- Emergency Background TX Tone
- Emergency Man-Down Option
- QT / DQT
- Signaling AND/OR (per Zone)
- Audio Control per Zone (QT/DQT, QT/DQT+Option Sig)
- Two-Tone Decode (3)
- Single / Two-Tone Encode (10)
- Operator Selectable Tone (40)
- DTMF Encode / Decode4
- DTMF Stun
- DTMF PTT ID
- DTMF Emergency ANI
- DTMF Manual Encode*
- DTMF Auto-Dial (9 numbers)
- Special Alert Tone Patterns
- Call Key (1&2)
- Time Out Timer (per zone)
- Busy Channel Lockout
- Talk Around
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- English/Spanish Program Screen Language
- Data Password (Read/Write)
- Electronic Serial Number
- Transceiver Password
- Field Programming & Tuning
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option
- 2 Year Warranty

INCLUDED ITEMS
- Spring Belt Clip, Audio ACC plug retainer, Audio ACC jack cover, English/Spanish Instruction Manual

FLEETSYNC®
- PTT ID Digital ANI
- 100 ID List Capacity
- Caller ID Display
- Caller ID Stack (last 3 calls)
- Caller ID Display
- Status Messaging
  - 50 Custom Status Message List Capacity
  - 70 Protocol-supported Status Messages (ST10-79)
  - 10 Special-use Statuses (ST 98-99, 88-94, 80)
    - ST 98: Man-Down Emergency (portables)
    - ST 99: Emergency Status
    - ST 88: Emergency Mode Off
    - ST 89: Horn Alert Request (mobiles)
    - ST 90: Stun radio (No TX)
    - ST 91: Stun radio (No TX / No RX audio)
    - ST 92- Turn off Stun
    - ST 93- ACK ST-90 (Stun, No TX)
    - ST 94- ACK ST-91 (Stun; No TX/ No RX audio)
    - ST 80- No Such Status Programmed Response
    - ST 81-87, 95-97 (reserved for future use)
- Selective Call & Group Call
- Short Text Messages

---

* DTMF Manual Encode available on keypad TK-2170/3170 models only

Radio Only ***Choose Acc. from Next Page to Customize a Radio Package***

Model	Description	List
VHF	***Spring Action Belt Clip included; PURCHASE ANTENNA, BATTERY & CHARGER SEPARATELY***	
TK-2170K	136-174 MHz 5W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	$350.00
TK-2170K2	136-174 MHz 5W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key +12-Key	$400.00
UHF	***Spring Action Belt Clip included; PURCHASE ANTENNA, BATTERY & CHARGER SEPERATELY***	
TK-3170K	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	$367.00
TK-3170K4	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key + 12-key	$417.00
TK-3170K3	400-430 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key **-Available 7/05-**	$367.00
TK-3170K6	400-430 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key+12-key **-Avail. 7/05-**	$417.00

Accessories for the TK-2170/3170 Series Radios

Model	Description	List
ANTENNAS		
KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.00
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.00
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.00
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.00
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.00
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.00
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
BATTERIES AND CHARGERS		
KBP-5[1]	AA Alkaline Refillable Battery Pack for 140/160/170-Series Portables (6 AA; 9V) **cells not included**	47.00
KNB-25A	1200 mAh, 7.2 VDC Ni-Cd battery	49.00
KNB-26N[2]	2000 mAh, 7.2 VDC Ni-MH battery	67.00
KNB-35L	1950 mAh, 7.4 VDC Lithium Ion battery	94.00
KNB-40LC[3]	1950 mAh, 7.2 VDC Lithium Ion battery **[Intrinsically Safe Option]** **Must order L-1000**	107.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-32,25,24 & 16 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-25	110 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-25E	220 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N	30.00
KSC-30E	220 volt Regular rate single unit charger for KNB-25A/26N	30.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-30 (chargers not included)	80.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24, 25 (chargers not included)	80.00
CARRYING ACCESSORIES		
KLH-138	Heavy-Duty Leather Case w/Swivel Belt Loop for TK-2170/3170 w/o DTMF keypad (all batteries; black)	47.00
KLH-139	Heavy-Duty Leather Case w/Swivel Belt Loop for TK-2170/3170 w/ DTMF keypad (all batteries; black)	47.00
KBH-12	Spring action belt clip - Same as Supplied	8.00
KWR-1	Water resistant bag	29.00
MICROPHONES AND SPEAKERS		
KEP-2 [3]	2.5mm earphone kit for KMC-17 Speaker Mics (Black). [Intrinsically Safe Approved Accessory]	50.00
KHS-1 [3]	Headset with VOX/PTT (light-duty use) **[Intrinsically Safe Approved Accessory]**	62.00
KHS-10-BH [3]	**[Intrinsically Safe Approved Accessory]**	350.00
KHS-10-OH [3]	**[Intrinsically Safe Approved Accessory]**	320.00
KHS-7 [3]	Single muff headset w/boom mic (black) **[Intrinsically Safe Approved Accessory]**	67.00
KHS-7A [3]	Lt. Wt Single muff headset w/boom mic & in-line PTT (black) **[Intrinsically Safe Approved Accessory]**	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	26.95
KMC-17 [3]	Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approved Accessory]**	82.00
KMC-21 [3]	Compact speaker microphone **[Intrinsically Safe Approved Accessory]**	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface Cable	N/A
KPG-101DK	P.C. Programming Software for TK-2170/3170/3173 (Windows 98SE, 2000, XP, Me compatible)	N/A

Accessories for the TK-2170/3170 Series Radios

Model	*Description*	*List*
OPTION MODULES		
QE-2 [3]	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Important Factory Install Only – Order L-901 or L-902 [Intrinsically Safe Approved Accessory]**	128.00
CAE-3 (for QE-2)	QE-2 Emergency Man-Down Internal Tilt Switch For CAE-3 install for QE-2 Man-down, order L-845.	21.00
CAE-3 (for FleetSync®)	FleetSync® Emergency Man-Down Internal Tilt Switch For CAE-3 install for FleetSync® Man-down, order L-964 (QE-2 board is not required)	21.00

QE-2 G-Star®/ MDC1200 Digital ANI Boards by Cimarron Technologies

Pre-programmed & installed boards require a completed "QE-2 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order.

Notes:

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).

b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

c. Emergency "Man-down" feature requires an installed CAE-3 internal man-down tilt switch option (portables only).

d. QE-2 Programmers are NOT available from Kenwood. Purchase model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

Encryption Boards

The radios Encryption/ANI Port (PCB hardwire solder lands) is designed to interface with the typcial aftermarket encryption and ANI boards.
This radio supports the interface required for boards from the following manufacturer(s); contact the manufaturer for product information and Kenwood radio model application notes:

Transcrypt Secure Technologies
3900 NW 12th Street, Suite 200
Lincoln, NE 68521
Phone: 800-228-0226
website: www.transcryptsecure.com

Typical Models (check with vendor for most recent product info)
SC-20-416/430/460-12
KW21-416/430/460

Installation/Tuning Charges for the TK-2170/3170 Series Radios

Model	*Description*	*List*
L-836	Assemble KMB-16 with six KSC-25	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-992	Tune TK-2170/3170	37.50
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00
L-845	Install CAE-3 (w/ QE-2)	9.00
L-964	Install CAE-3 (for FleetSync®)	9.00
L-1000	Configure TK-2170/3170 for Intrinsically Safe **(Must Order an I.S. Battery)**	70.00

1. AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.
Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will l and decrease during transmit and as the battery is drained.
2. Important Note regarding KNB-26N NiMH battery:
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
NiMH batteries capacity life is slightly lower than NiCd: NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles
3. For intrinsically safe models: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups A, B, C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups A, B, C & D hazardous locations.
Important Note Regarding Intrisically Safe Certification: Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.

Land-Mobile Price List

TK-2180/3180

VHF / UHF Trunking & Conventional Portable Radios

Radio Packages

Each Package includes; RADIO, BATTERY, CHARGER, & BELT CLIP *(Antenna sold separately)*

Model	Description	List
VHF NiMH Battery Package		
TK-2180K-NKP	TK-2180K + **KNB-32N** + **KSC-32** + Belt Clip *136-174 MHz Ni-MH (2500mAh) Rapid Chg 2.5" Spring action belt-clip*	$668.00
VHF Li-Ion Battery Package		
TK-2180K-LKP	TK-2180K + **KNB-33L** + **KSC-32** + Belt Clip *136-174 MHz Li-Ion (1700mAh) Rapid Chrg 2.5" Spring action belt-clip*	$684.00
VHF NiCd Battery Package		
TK-2180K-AKP	TK-2180K + **KNB-31A**** + **KSC-32** + Belt Clip *136-174 MHz Ni-Cd (1700mAh) Rapid Chg 2.5" Spring action belt-clip*	$651.00
UHF NiMH Battery Package		
TK-3180K-NKP	TK-3180K + **KNB-32N** + **KSC-32** + Belt Clip *450-520 MHz Ni-MH (2500mAh) Rapid Chg 2.5" Spring action belt-clip*	$684.00
TK-3180K2-NKP	TK-3180K2 + **KNB-32N** + **KSC-32** + Belt Clip *400-470 MHz Ni-MH (2500mAh) Rapid Chg 2.5" Spring action belt-clip*	$684.00
UHF Li-Ion Battery Package		
TK-3180K-LKP	TK-3180K + **KNB-33L** + **KSC-32** + Belt Clip *450-520 MHz Li-Ion (1700mAh) Rapid Chg 2.5" Spring action belt-clip*	$700.00
TK-3180K2-LKP	TK-3180K2 + **KNB-33L** + **KSC-32** + Belt Clip *400-470 MHz Li-Ion (1700mAh) Rapid Chrg 2.5" Spring action belt-clip*	$700.00
UHF NiCd Battery Package		
TK-3180K-AKP	TK-3180K + **KNB-31A**** + **KSC-32** + Belt Clip *450-520 MHz Ni-Cd (1700mAh) Rapid Chg 2.5" Spring action belt-clip*	$667.00
TK-3180K2-AKP	TK-3180K2 + **KNB-31A**** + **KSC-32** + Belt Clip *400-470 MHz Ni-Cd (1700mAh) Rapid Chg 2.5" Spring action belt-clip*	$667.00

TK-2180/3180 FEATURES:

GENERAL
5 Watt UHF & VHF Models
Wide Band: UHF 70 MHz / VHF 38 MHz
Conventional & LTR Zones
512 Channels / 128 Zones
DTMF Keypad Models
Home CH/GID
Direct Channel/GID Access (5)
Backlit Dot Matrix LCD
12 Character Alphanumeric Aliases
3-Digit Sub-Display
RSSI Indicator
Battery Level Indicator
Low Battery Warning
Date & Time Clock
Power On Text Message
Emergency/AUX Key (orange)
2 Side PF Keys
4 Front Panel PF keys
12-Key DTMF/PF Keypad (keypad mdoels)
KMC-25 Speaker Mic with 2 PF Keys
Key Lock Feature
Kenwood Enhanced Audio
Companded Audio Per Channel
500 mW Audio Power
Weather-Sealed Accessory Connector
Easy Option Port
VGS-1 Voice Guide & Storage Unit Option
Voice Inversion Scrambler Built-in
Encryption/ANI Board Control
Man-Down
Emergency Calling Features
Signaling AND/OR (per Zone)
DTMF Decode
DTMF Stun
DTMF PTT ID
DTMF Emergency ANI
DTMF Manual Encode (keypad models)
DTMF Auto-Dial (32 numbers)
Special Alert Tone Patterns (8)
Call Key (FleetSync®, 2-Tone or DTMF encode)
Embedded Message (64 Character)
Embedded Message with Password
Microphone Sensitivity Adjust
Tone Volume
Speaker Attenuation (KMC-25 High/Low Vol.)
Min / Max. Speaker Volume
Time Out Timer (per Zone)
Battery Saver
Transceiver Password
Data Password (Read/Write)
Windows® Programming & Tuning
English /Spanish Program Screen Language
Panel Test/Tune
Cloning
Firmware Version Programming & Display
MIL-STD-810 C/D/E/F (11 cat.)
MIL-STD "Driven-Rain"
IP-54/55 Water & Dust Intrusion
Intrinsically Safe Option
MIL-Spec Noise-Canceling Speaker Mic
2 Year Warranty

CONVENTIONAL ZONES
512 Channels (CH & GID max. capacity per radio)
128 Zones max. per radio
250 CH max. per CONV. Zone
QT / DQT
Two-Tone Decode (4 x4)
Single / Two-Tone Encode (32)
Operator Selectable Tone (40 code pairs; keypad models)
Dual Priority Scan
Single/Multi-Group/List Scan
Scan Revert Channel Display
Priority Channel Stop Tonet
CH Delete/Add
Nuisance Delete
Priority Temporary Delete
Power on Scan
Talk Around
Busy Channel Lockout
VOX Ready

TRUNKED ZONES
512 GID (CH & GID max. capacity per radio)
128 Zones max. per radio
250 GID max. per Trunked Zone
GID Delete/Add
Full LTR Trunking Features
LTR Talk Around /Scan Revert Group Display
System Scan, Group Scan, Auto Search

FLEETSYNC ® (Conv. & Trunked Zones)
FLEETSYNC® or FLEETSYNC® II Compatibility
PTT ID Digital ANI
100 ID List Capacity
Caller ID Display
Caller ID Stack (last 3 calls)
Status Messaging
90 Message List Capacity
10-79 Custom Dispatch Messages
ST 98: Man-Down Emergency (portables)
ST 99: Emergency Status
ST 88: Emergency Mode Off
ST 89: Horn Alert Request (mobiles)
ST 90: Stun radio (No TX)
ST 91: Stun radio (No TX / No RX audio)
ST 92- Turn off Stun
ST 93- ACK stun is ON
ST 94- ACK stun is OFF
ST 80- No Such Status Programmed Response
ST 81-87, 95-97 (Reserved for future use)
Selective Call
Short Text Messages (stored/display)
Power On/Off Status Messages

INCLUDED ITEMS
Spring Action Belt Clip
English/Spanish Instruction Manual

FM APPROVED

TK-2180/3180 Series Radios

Radio Only

Choose Acc. from Next Page to Customize a Radio Package

Model	*Description*	*List*
VHF	***Spring Action Belt Clip included; Antenna, Battery & Charger not included***	
TK-2180K	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR	$517.00
TK-2180K2	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF keypad	567.00
UHF	***Spring Action Belt Clip included; Antenna, Battery & Charger not included***	
TK-3180K	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR	533.00
TK-3180K3	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad	583.00
TK-3180K2	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR	533.00
TK-3180K4	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad	583.00

FM Certified Radio

Must Order L-994 to configure radio for Intrinsically Safe

Choose FM Approved Acc.[1] from Next Page to Customize a Radio Package

FM Approved Model	*Description*	*List*
VHF	***Spring Action Belt Clip included; Antenna, Battery & Charger not included***	
TK-2180-ISK	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR **[Intrinsically Safe]**	$517.00
TK-2180-ISK2	136-174 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF keypad **[Intrinsically Safe]**	567.00
UHF	**Spring Action Belt Clip included; Antenna, Battery & Charger not included**	
TK-3180-ISK	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR **[Intrinsically Safe]**	533.00
TK-3180-ISK3	450-520 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad **[Intrinsically Safe]**	583.00
TK-3180-ISK2	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR **[Intrinsically Safe]**	533.00
TK-3180-ISK4	400-470 MHz 5W, 512 CH / 128 Zone CONV-& LTR with DTMF Keypad **[Intrinsically Safe]**	583.00

Accessories for the TK-2180/3180 Series Radios

Model	*Description*	*List*
ANTENNAS		
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
KRA-27M2	UHF whip antenna 470-520 MHz	14.00
KRA-27M3	UHF whip antenna 400-450 MHz	14.00
KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.00
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.00
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.00
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.00
KRA-23M2	UHF Low-profile helical antenna 470-512 MHz	13.00
KRA-23M3	UHF Low-profile helical antenna 403-430 MHz	13.00
KRA-25	High Gain VHF Helically Loaded ¼ Wave Whip Antenna 148-162 MHz (9.75 inches; for TK-2160/280/290/2180 portables only; SMA-F connector) Note: The KRA-25 is 9.75 inches long. This is 3.75 inches longer than a normal VHF helical antenna! Stocked in limited	32.50
KRA-28	Broad Band VHF **Helically Loaded ¼ Wave Whip Antenna 140-170 MHz Note:** The KRA-28 is 9.75 inches long. Stocked in limited quantities. Allow up to 8 weeks for delivery.	40.00
BATTERIES AND CHARGERS		
KNB-31A	1700 mAh, Ni-Cd, 9 Hour, 7.2 VDC battery; Requires KSC-32 charger (80 min. charge time)	67.00
KNB-32N	2500 mAh NiMH, 14 Hour; 7.2 VDC battery; Requires KSC-32 charger (170 min. charge time)	84.00
KNB-33L	1700 mAh Lithium Ion, 9 Hour; 7.2VDC battery; Requires KSC-32 charger (130 min. charge time)	100.00
KNB-41NC[1]	2500 mAh NiMH, 7.2 VDC battery; **Must order L-994** requires KSC-32 charger **Intrinsically Safe**	130.00
KBP-6	Refillable AA Alkaline Battery Pack (Estimated Availability --- June. 2005 **Battery cells not incl.**	65.00
KSC-32	110/220* Volt Rapid rate single unit tri-chemistry charger for KNB-31A/32N/33L *Note: Includes 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapt	67.00
KMB-23	Six Unit Charger Adapter for the KSC-32 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each.	182.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	114.00
CARRYING ACCESSORIES		
KBH-11	Spring action belt clip (2.5") - Same as Supplied	14.00
KBH-10	Low profile spring action belt clip (for use with KNB-33L Only)	8.00
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	25.00
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back for KLH-122/123	21.00
KLH-122	Heavy duty leather carrying case for TK-2180/3180 (Non DTMF keypad models)	42.00
KLH-123	Heavy duty leather carrying case for TK-2180/3180 (DTMF keypad models)	42.00
KLH-124	Cordura Nylon carrying case for TK-2180/3180 (Non DTMF keypad models)	25.00
KLH-125	Cordura Nylon carrying case for TK-2180/3180 (DTMF keypad models)	25.00
KWR-1	Water resistant bag	29.00

Accessories for the TK-2180/3180 Series Radios

Model	*Description*	*List*
MICROPHONES AND SPEAKERS		
KEP-1[1]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only)**Intrinsically Safe**	50.00
KCT-30[1]	2.5mm Audio Accessory Adapter for KEP-3/4 **Intrinsically Safe**	61.00
KEP-3[1]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) **Intrinsically Safe**	49.00
KEP-4[1]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) **Intrinsically Safe**	52.00
KMC-25[1]	MIL-SPEC, Noise canceling Speaker mic **Intrinsically Safe**	92.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **Intrinsically Safe**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black)**Intrinsically Safe**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **Intrinsically Safe**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black)**Intrinsically Safe**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk)**Intrinsically Safe**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; (Heavy-duty headsets; Allow min. 4 weeks delivery time). **Intrinsically Safe**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db. (Heavy-duty headsets; Allow min. 4 weeks delivery time).**Intrinsically Safe**	350.00
KCT-47MS[1]	External Man-Down Switch (prohibits audio accessory use) **[Intrinsically Safe]**	67.00
OPTION MODULES		
VGS-1[1]	Voice Guide and Storage Unit **Intrinsically Safe**	72.00
QE-2[1]	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Important Factory Install Only -- Order L-901 or L-902** **Intrinsically Safe**	128.00
CAE-3[1] (for QE-2)	QE-2 Emergency Man-Down Internal Tilt Switch For CAE-3 install for QE-2 Man-down, order L-845. **Intrinsically Safe**	21.00
CAE-3[1] (for FleetSync®)	FleetSync® Emergency Man-Down Internal Tilt Switch **Intrinsically Safe** For CAE-3 install for FleetSync® Man-down, order L-964 (QE-2 board is not required)	21.00

QE-2 G-Star®/ MDC1200 Digital ANI Boards by Cimarron Technologies

Pre-programmed & installed boards require a completed "QE-2 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order.

Notes:

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).
b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).
c. Emergency "Man-down" feature requires an installed CAE-3 internal man-down tilt switch option (portables only).
d. QE-2 Programmers are NOT available from Kenwood. Purchase model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

Encryption Boards

The radios Encryption/ANI Port (PCB hardwire solder lands) is designed to interface with the typcial aftermarket encryption and ANI boards.
This radio supports the interface required for boards from the following manufacturer(s); contact the manufaturer for product information and Kenwood radio model application notes:

Transcrypt Secure Technologies
3900 NW 12th Street, Suite 200
Lincoln, NE 68521
Phone: 800-228-0226
website: www.transcryptsecure.com

Accessories for the TK-2180/3180 Series Radios

Model	*Description*	*List*
SERVICE RELATED ACCESSORIES		
KPG-36	Programming interface Cable	N/A
KPG-89DK	Windows® Programming Software for TK-2180/3180/7180/8180 (98, ME, 2000 & XP compatible)	N/A

Installation/Tuning Charges for the TK-2180/3180 Series Radios

Model	*Description*	*List*
L-963	Tune TK-2180/3180	37.50
L-962	Install VGS-1 Voice Guide & Storage Unit Note: VGS-1 installation precludes any ANI or encryption board installa	25.00
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00
L-845	Install CAE-3 (w/ QE-2)	9.00
L-964	Install CAE-3 (for FleetSync®)	9.00
L-994	Configure TK-2180-IS/3180-IS for Intrinsically Safe**(Must Order an I.S. Battery)**	70.00

IMPORTANT NOTES:

[1] **FM approved by Factory Mutual as intrinsically safe for usa in** Classes I, II & III, Div. 1, Groups C, D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A,B, C, D hazardous locations.
Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

FM Repairs, Approved Accesories & Aftermarket Boards: FM radios are Kenwood Factory& Authorized Service Center repaired only (East, West & United Radio). Do not imodify the radio, install any non-approved audio accessories, boards or other devcies to the radio. Antennas and carrying accessories do not need approvals and are accepatble for FM use. Only the Kenwood accesories/options marked as Intrinsically Safe listed in these price pages and the following aftermaret accesories are approved with this radio:

KW21 -400, -416, -430, -460 Transcrypt Scramblers
SC20-400, -416, -430, - 460 Transcrypt Scramblers

Evolution V2-10134 Speaker Mic Otto Communications
Genesis V2-G2KB211 Speaker Mic Otto Communications
Genesis V2-G2KB321 Speaker Mic Otto Communications
Lightsword V-D2KB111 Speaker Mic Otto Commmunications
Hurricane V4-HC2KB1 Headset Otto Communcations

Land-Mobile Price List

TK-2200/3200

VHF/UHF Conventional Portable Radio

Model	*Description*	*List*
VHF	***KNB-29N (1500 mAH) battery, KSC-31 (3 hr.) charger, and KRA-26M (VHF) antenna included:***	
TK-2200V2	150-174 MHz VHF 2W, 2 Ch.	$271.00
TK-2200V8	150-174 MHz VHF 2W, 8 Ch.	286.00
UHF	***KNB-29N (1500 mAH) battery, KSC-31 (3 hr.) charger, and KRA-27M (UHF) antenna included:***	
TK-3200U2	450-470 MHz UHF 2W, 2 Ch.	287.00
TK-3200U8	450-470 MHz UHF 2W, 8 Ch.	309.00

TK-2200/3200 FEATURES:

FEATURES:

2 Watts
2 & 8 Channel Models
Channel Number Voice Announcement
Wireless Cloning Mode
Loud 500 mW Audio
FPU Programmable
Wide Operating Bandwidth
Internal VOX (Voice-activated transmit) with Audio Accessory
Channel Scan
Super Lock
Small & Lightweight
Rugged MIL-STD 810 C, D, E & F, IP54, IP55
Die-Cast Chassis
Polycarbonate Case
Weather-Sealed Construction
FleetSync® PTT ID
Two Color LED
Time Out Timer
Up to 18 Hours (Battery Save on) Talk Time (5/5/90 Duty Cycle)
Low Battery Alert
2 Year Limited Warranty

Included Accessories:

Battery, Charger, Antenna, & Belt Clip

Available in 2 Channel
& 8 Channel models

Accessories for TK-2200/3200

Model	Description	List
ANTENNAS		
KRA-14M	VHF helical antenna 148-162 MHz (TK-2100/2200)	$17.00
KRA-14M2	VHF helical antenna 162 -174 MHz (TK-2100/2200)	$17.00
KRA-15AM	UHF whip antenna 450-490 MHz (TK-3100/3101/3200)	17.00
KRA-16M	VHF stubby antenna 148-162 MHz (TK-2100/2200)	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz (TK-2100/2200)	13.00
KRA-17M	UHF stubby antenna 450-490 MHz (TK-3100/3200/3101)	13.00
KRA-22M	VHF low profile antenna 148-162 MHz (TK-2100/2200)	13.00
KRA-22M2	VHF low profile antenna 162-174 MHz (TK-2100/2200)	13.00
KRA-23M	UHF low profile antenna 450-490 MHz (TK-3100/3200)	13.00
KRA-26M	VHF helical antenna 146-162 MHz (TK-2100/2200) --- **same as supplied w/TK-2200V's**	14.00
KRA-26M2	VHF helical antenna 162-174 MHz (TK-2100/2200)	14.00
KRA-27M	UHF whip antenna 440-490 MHz (TK-3100/3200/3101) --- **same as supplied w/TK-3200U's**	14.00
BATTERIES AND CHARGERS		
KNB-29N[1]	1500 mAh NiMH 14 hours life @ 5-5-90 duty (TK-2200/3200) **Note:** KSC-31 charger required - not compatible with other chargers or leather cases	35.00
KMB-25	Six Unit Charger Adapter for the KSC-31K, low profile, internal power strip, 2x3 charger configuration (chargers not included)	182.00
KSC-31K	Fast rate single unit charger for KNB-29N NiMH battery (TK-2200/3200)	30.00
CARRYING ACCESSORIES		
KBH-10	Spring action belt clip (TK-2200/3200) **--- same as supplied**	8.00
KBH-8DS	Swivel belt loop with D-Ring	25.00
KLH-126	Nylon case for TK-2200/3200 (Black)	14.00
KWR-1	Water resistant bag (TK-2100/2200/3100/3200/3101)	29.00
MICROPHONE AND SPEAKERS		
EMC-3	Clip Mic w/earphone	29.95
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
HMC-3	Headset w/PTT & VOX	59.95
KEP-2	2.5mm earphone kit for KMC-17 Speaker Mics (Black only). **[KEP-2 & KMC-21 are not plug-compatible].**	50.00
KHS-10-BH	Hvy-duty noise reduction behind-the-headset w/noise canceling boom mic & in-line PTT (black); NRR24 db	350.00
KHS-10-OH	Hvy-duty noise reduction over-the-headset w/noise canceling boom mic & in-line PTT (black); NRR24 db	320.00
KHS-7	Single muff headset w/boom mic (black)	67.00
KHS-7A	Lt. Wt Single muff headset w/boom mic & in-line PTT (black)	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KMC-17	Speaker microphone (Built-in 2.5mm miniature earphone jack)	82.00
KMC-21	Compact speaker microphone	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface cable (powered by P.C.s serial port)	N/A
KPG-88DK	Windows® Programming Software for TK-2200/3200 (98, ME, 2000 & XP compatible)	N/A
**********	**Call Kenwood Parts at 800-367-7514 to order the following:**	
C100569-19	KHS-8BE/9BE Replacement eartips, 10 per pack, beige (Recommended for sanitary purposes)	10.00
C100569-2	KHS-8BL/9BL Replacement eartips, 10 per pack, black	10.00
C100693-19	KHS-8BE/9BE Acoustic tube replacement kit, beige (Clear coiled tubing)	16.35
C100693-2	KHS-8BL/9BL Acoustic tube replacement kit, black	16.35
C100733	KHS-8/9 Noise attenuating kit, 1 set per pack (Foam ear tips pieces)	4.00
C807027-05	KHS-7 Foam mic windscreen, 5 pcs per pack	6.80
C807028-05	KHS-7 Foam ear cushion, 2 pcs per pack	6.50

Installation / Tuning Charges for TK-2200/3200

Model	Description	List
L-967	Change channel to other frequencies * or program TK-2200/3200 Series	37.50
	***Note:** Preprogrammed channels can be changed by the Dealer by following the Instructions Manual.	

[1] **Important Note regarding KNB-29N:**
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

BUSINESS RADIO COMMUNICATIONS PRODUCTS

Land-Mobile Terms & Conditions Summary

1. Freight will be Prepaid Ground on all orders with 10 radios or more, mix-n-match, on a single shipment.

2. Quantity Discounts will apply to the numbers of radios mix-n-match ordered on a single order to ship at the same time. UBZ models may not be combined with any other model radios to achieve discount levels. TK-2200/3200P Series, ProTalk® TK-2100V1 Series/FreeTalk XL®/XLS models may be combined with other Land Mobile radios, except the UBZ's, to achieve quantity discounts, except at the 25-Piece price. To obtain the 25-Piece price on TK-2200/3200 P Series, ProTalk®/FreeTalk XL®/XLS models, orders must be for those models only, mix-n-match, for a single shipment.

a. FreeTalk® (UBZ's)

# of Radios	Qty Discounts*
5 to 9	2%
10 to 19	4%
20 to 24	6%
25+	15%

b. TK-2200/3200 Series, ProTalk® TK-2100V1 Series, FreeTalk XL®/XLS

# of Radios	Qty Discounts*
10 to 24	5%
25-Piece	15%

** Quantity Discounts are percentage off Dealer price. Quantity Discounts apply to radios ONLY.*

3. Prompt pay terms: 2% 30, Net 31 days from date of invoice with approved credit.

4. Please review Kenwood Communications Terms and Conditions for more details.

KENWOOD SERVICE
2201 E. DOMINGUEZ ST.
PO BOX 22745
LONG BEACH, CA 90801-5745
PH: (310) 639-5300
FAX: (310) 761-8290

KENWOOD COMMUNICATIONS
Distribution:
2201 E. Dominguez St.
Long Beach, CA 90810
PH: (310) 639-4200
FAX: (310) 761-8246

KENWOOD PARTS DEPT.
2201 E. DOMINGUEZ ST.
PO BOX 22745
LONG BEACH, CA 90801-5745
PH: (800) 367-7514 (Dealers)
FAX: (800) 437-7255

TK-3130

ProTalk® XLS Ultra Comptact Portable Transceiver

Model	Description	List
UHF	*Fixed Antenna, NiMh Battery, Spring action belt clip and Drop-in Rapid Rate Charger included*	
TK-3130	464-467 MHz UHF 1W or 500 mW, 2 Ch. Ultra Compact Portable Transceiver	$190.00

TK-3130 FEATURES:

- Durable Polycarbonate Housing
- Small (1.97" W x 1.13" D x 4.63" H) & Lightweight (7 oz)
- Over 10 Hours Talk Time (90/5/5 duty cycle)
- User-selectable 1W or 500 mW Transmit Power
- 2 Channel Operation (factory pre-set)
- 8 User-Programmable Memory Bank Frequencies
- Channel Scan
- User Programmable QT (38) and DQT (83) Signaling
- Tone and Vibration Alert
- Six Call Tones
- Voice Scrambler (not UBZ-LF14/LH14 compatible)
- Key Lock / Backlit LCD Display
- LCD Battery Meter & Low Battery Alert
- VOX (Voice-activated transmit) w/3 Sensitivity Levels
- VOX TX Delay and Busy Detect
- Time Out Timer
- 2 Color Transmit / Busy LED
- Channel Up/ Down Select
- Rotary Volume Knob
- 3 Function Keys: Menu, Call, Monitor
- Audio Accessory Jack
- Antenna (fixed non-removable)
- Rechargeable or Alkaline (3xAA) Operation
- 2 Year Limited Warranty

Included Accessories:
- Spring action belt clip
- Rapid Rate Drop-in charger
- Fixed Antenna
- NiMH Battery

Factory pre-set frequencies:

Ch.	Designator	Frequency
1	Yellow	464.5500 MHz
2	Blue Star	467.9250 MHz

8 memory bank frequencies for the ProTalk® XLS:

Memory	Designator	Frequency
1	Brown	464.5000 MHz
2	Yellow	464.5500 MHz
3	J	467.7625 MHz
4	K	467.8125 MHz
5	Silver Star	467.8500 MHz
6	Gold Star	467.8750 MHz
7	Red Star	467.9000 MHz
8	Blue Star	467.9250 MHz

The above frequencies allow users to program the CH 1 & 2 settings should the factory pre-sets be too busy or non-useable in the area.

TK-3131

FreeTalk® XLS Ultra Comptact Portable Transceiver

Model	Description	List
UHF	*Fixed Antenna, NiMh Battery, Spring action belt clip and Drop-in Rapid Rate Charger included*	
TK-3131	462 MHz UHF 1W or 500 mW, 15 Ch. Ultra Compact Portable Transceiver	$190.00

TK-3131 FEATURES:

- 15 GMRS Channels
- Durable Polycarbonate Housing
- Small (1.97" W x 1.13" D x 4.63" H) & Lightweight (7 oz.)
- Over 10 hours Talk Time (90/5/5 duty cycle)
- User-selectable 1W or 500 mW Transmit Power
- Channel Scan
- User Programmable QT (38) and DQT (83) Signaling
- Tone and Vibration Alert
- Six Call Tones
- Voice Scrambler (not UBZ-LF14/LH14 compatible)
- Key Lock / Backlit LCD Display
- LCD Battery Meter & Low Battery Alert
- VOX (Voice-activated transmit) w/3 Sensitivity Levels
- VOX TX Delay and Busy Detect
- Time Out Timer
- 2 Color Transmit / Busy LED
- Channel Up/ Down Select
- Rotary Volume Knob
- 3 Function Keys: Menu, Call, Monitor
- Audio Accessory Jack
- Antenna (fixed non-removable)
- Rechargeable or Alkaline (3xAA) Operation
- 1 Year Limited Warranty

Included Accessories:
- Spring action belt clip
- Rapid Rate Drop-in charger
- Fixed Antenna
- NiMH Battery

Factory pre-set 15 GMRS frequencies:

Memory	Designator	Frequency
1		462.5625 MHz
2		462.5875 MHz
3		462.6125 MHz
4		462.6375 MHz
5		462.6625 MHz
6		462.6875 MHz
7		462.7125 MHz
8	White	462.5750 MHz
9	Black	462.6250 MHz
10	Orange (Emergency)	462.5875 MHz
11		462.5500 MHz
12		462.6000 MHz
13		462.6500 MHz
14		462.7000 MHz
15		462.7250 MHz

Accessories for TK-3130/3131 ProTalk® XLS and FreeTalk® XLS

Model	Description	List
BATTERY AND CHARGER		
KNB-27N[1]	Ni-MH battery	31.00
KSC-28	Rapid rate charger for TK-3130/3131	36.00
KMB-21	Six Unit Charger Adapter for the KSC-23BK/28 (chargers not included)	165.00
CARRYING ACCESSORY		
KLH-113	Nylon case for TK-3130/3131 (Black)	14.00
MICROPHONE AND SPEAKERS		
EMC-3	Clip Mic w/earphone	29.95
HMC-3	Headset w/PTT & VOX	59.95
KHS-1	Order HMC-3	62.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Clip Mic with earbud	53.00
KMC-21	Compact speaker microphone	49.00

[1] **Important Note regarding KNB-20N/29N/27N:**
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
- NiMH batteries capacity life is slightly lower than NiCd: ***NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles***

KENWOOD

Dec-05

Last Revised:12/15/05

Land-Mobile Price List

TK-3173

UHF Trunking / Conventional Compact Portable Radios

Radio Packages ***Each Package includes; RADIO, BATTERY, CHARGER, ANTENNA, & BELT CLIP***

Model	*Description*	*List*
UHF Standard Package		
TK-3173K-AKP	*TK-3173K + **KNB-25A** + **KSC-30** + KRA-27M + Belt Clip* *Ni-Cd (1200mAh) Standard Chg Whip Antenna*	$492.00
UHF Premium Package		
TK-3173K-LKP	*TK-3173K + **KNB-35L** + **KSC-25** + KRA-27M + Belt Clip* *Li-Ion (1950mAh) Rapid Rate Chrg Whip Antenna*	$566.00

Radio Only ***Choose Acc. from Next Page to Customize a Radio Package***

UHF	***Spring Action Belt Clip included; PURCHASE ANTENNA, BATTERY & CHARGER SEPERATELY***	
TK-3173K	450-490 MHz 4W, 128 CH / 128 Zone Conventional; 8 Character LCD, 4-key	$399.00

TK-3173 FEATURES:

GENERAL FEATURES
- 4 W (450-490 MHz)
- Conventional & LTR Zones
- 8 Character Alphanumeric Aliases
- Backlit LCD
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- 4 Front Panel PF keys
- 3 Side PF Keys
- Oranqe Emergency/AUX Key
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Encryption / ANI Board Control
- Easy Option Port (20-Pin)
- Emergency Call Features
- Emergency Mic Sensitivity
- Emergency Man-Down Option
- QT / DQT
- Signaling AND/OR (per Zone)
- Audio Control per Zone
- DTMF Encode / Decode4
- DTMF Stun
- DTMF PTT ID
- DTMF Emergency ANI
- DTMF Auto-Dial (9 numbers)
- Special Alert Tone Patterns
- Call Key (1&2)
- Time Out Timer (per zone)
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Windows® Programming & Tuning
- Windows® Firmware Uploading
- English/Spanish Program Screen Language
- Single & Multi-Zone Scan
- List Scan
- Scan Revert / Revert Display
- CH / Zone Delete/Add
- Data Password (Read/Write)
- Electronic Serial Number
- Transceiver Password
- Field Programming & Tuning
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option
- 2 Year Warranty

CONVENTIONAL ZONES
- 128 Channels / 128 Zones
- QT / DQT
- Two-Tone Decode *
- Single / Two-Tone Encode
- Operator Selectable Tone
- Single Priority Scan
- Priority Channel Stop Tone
- Voice Inversion Scrambler Built-in

TRUNKED ZONES
- 250 GID / 128 Zones
- Kenwood LTR Features

INCLUDED ITEMS
- Spring Belt Clip, Audio ACC plug retainer, Audio ACC jack cover, English/Spanish Instruction Manual

FLEETSYNC®
- PTT ID Digital ANI
- 100 ID List Capacity
- Caller ID Display
- Caller ID Stack (last 3 calls)
- Caller ID Display
- Status Messaging
  - 50 Custom Status Message List Capacity
  - 70 Protocol-supported Status Messages (ST10-79)
  - 10 Special-use Statuses (ST 98-99, 88-94, 80)
    - ST 98: Man-Down Emergency (portables)
    - ST 99: Emergency Status
    - ST 88: Emergency Mode Off
    - ST 89: Horn Alert Request (mobiles)
    - ST 90: Stun radio (No TX)
    - ST 91: Stun radio (No TX / No RX audio)
    - ST 92- Turn off Stun
    - ST 93- ACK ST-90 (Stun, No TX)
    - ST 94- ACK ST-91 (Stun; No TX/ No RX audio)
    - ST 80- No Such Status Programmed Response
    - ST 81-87, 95-97 (reserved for future use)
- Selective Call & Group Call
- Short Text Messages

---

* Two-Tone Decode available on Conventional Zones only

USTC®

Accessories for the TK-3173 Portable

Model	*Description*	*List*
ANTENNAS		
KRA-23M	UHF Low-profile helical antenna 450-490 MHz	13.00
KRA-27M	UHF whip antenna 440-490 MHz	14.00
BATTERIES AND CHARGERS		
KBP-5[1]	AA Alkaline Refillable Battery Pack for 140/160/170-Series Portables (6 AA; 9V) **cells not included**	47.00
KNB-25A	1200 mAh, 7.2 VDC Ni-Cd battery	49.00
KNB-26N[2]	2000 mAh, 7.2 VDC Ni-MH battery	67.00
KNB-35L	1950 mAh, 7.2 VDC Lithium Ion battery	94.00
KNB-40LC[3]	1950 mAh, 7.2 VDC Lithium Ion battery [Intrinsically Safe Option] Must order L-1001	107.00
KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-32,25,24 & 16 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-25	110 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-25E	220 volt Rapid rate single unit tri-chemistry charger for KNB-24L/25A/26N	59.00
KSC-30	110 volt Regular rate single unit charger for KNB-25A/26N	30.00
KSC-30E	220 volt Regular rate single unit charger for KNB-25A/26N	30.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-30 (chargers not included)	80.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,18,20, 24, 25 (chargers not included)	80.00
CARRYING ACCESSORIES		
KLH-138	Heavy-Duty Leather Case w/Swivel Belt Loop for TK-2170/3170 w/o DTMF keypad (all batteries; black)	47.00
KBH-12	Spring action belt clip - Same as Supplied	8.00
KWR-1	Water resistant bag	29.00
MICROPHONES AND SPEAKERS		
KEP-2 [3]	2.5mm earphone kit for KMC-17 Speaker Mics (Black). [Intrinsically Safe Approved Accessory]	50.00
KHS-1 [3]	Headset with VOX/PTT (light-duty use) **[Intrinsically Safe Approved Accessory]**	62.00
KHS-10-BH [3]	**[Intrinsically Safe Approved Accessory]**	350.00
KHS-10-OH [3]	**[Intrinsically Safe Approved Accessory]**	320.00
KHS-7 [3]	Single muff headset w/boom mic (black) **[Intrinsically Safe Approved Accessory]**	67.00
KHS-7A [3]	Lt. Wt Single muff headset w/boom mic & in-line PTT (black) **[Intrinsically Safe Approved Accessory]**	100.00
KHS-8BE	Two-Wire palm mic w/earphone (beige)	99.00
KHS-8BL	Two-Wire palm mic w/earphone (black)	99.00
KHS-9BE	Three-Wire lapel mic w/earphone (beige)	159.00
KHS-9BL	Three-Wire lapel mic w/earphone (black)	159.00
KHS-22	Behind-the-Head Headset with flexible boom mic and in-line PTT single ear receiver; low profile wire head band; VOX-ready (radio must have VOX feature)	39.00
KHS-23	2-Wire Cell-style Earbud Clip/PTT Palm Mic (medium duty)	53.00
KHS-25	Headset w/ D-Ring Ear Hanger w/ PTT & Boom Mic	26.95
KMC-17 [3]	Speaker microphone (Built-in 2.5mm miniature earphone jack) **[Intrinsically Safe Approved Accessory]**	82.00
KMC-21 [3]	Compact speaker microphone **[Intrinsically Safe Approved Accessory]**	49.00
SERVICE RELATED ACCESSORIES		
KPG-22	Programming interface Cable	N/A
KPG-101DK	P.C. Programming Software for TK-2170/3170/3173 (Windows® 98 SE, 2000, XP, Me compatible)	N/A

Accessories for the TK-3173 Portable

Model	*Description*	*List*
OPTION MODULES		
QE-2 [3]	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Important Factory Install Only – Order L-901 or L-902 [Intrinsically Safe Approved Accessory]**	128.00
CAE-3 (for QE-2)	QE-2 Emergency Man-Down Internal Tilt Switch For CAE-3 install for QE-2 Man-down, order L-845.	21.00
CAE-3 (for FleetSync®)	FleetSync® Emergency Man-Down Internal Tilt Switch For CAE-3 install for FleetSync® Man-down, order L-964 (QE-2 board is not required)	21.00

QE-2 G-Star®/ MDC1200 Digital ANI Boardsby Cimarron Technologies

Pre-programmed & installed boards require a completed "QE-2 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order.

Notes:

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).

b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

c. Emergency "Man-down" feature requires an installed CAE-3 internal man-down tilt switch option (portables only).

d. QE-2 Programmers are NOT available from Kenwood. Purchase model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

Encryption Boards

The radios Encryption/ANI Port (PCB hardwire solder lands) is designed to interface with the typcial aftermarket encryption and ANI boards.

This radio supports the interface required for boards from the following manufacturer(s); contact the manufaturer for product information and Kenwood radio model application notes:

Transcrypt Secure Technologies
3900 NW 12th Street, Suite 200
Lincoln, NE 68521
Phone: 800-228-0226
website: www.transcryptsecure.com

Typical Models (check with vendor for most recent product info)
SC-20-416/430/460-12
KW21-416/430/460

Installation/Tuning Charges for the TK-3173 Portable

Model	*Description*	*List*
L-836	Assemble KMB-16 with six KSC-25	15.00
L-961	Assemble KMB-23 with six KSC-24/25/32 (Rapid Rate, 120 Volt versions only)	17.00
L-993	Tune TK-3173	37.50
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00
L-845	Install CAE-3 (w/ QE-2)	9.00
L-964	Install CAE-3 (for FleetSync®)	9.00
L-1001	Configure TK-3173 for Intrinsically Safe **(Must Order an I.S. Battery)**	70.00

1. AA refillable packs DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.
Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained.
2. Important Note regarding KNB-26N NiMH battery:
- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F(-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.
NiMH batteries capacity life is slightly lower than NiCd: NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles
3. For intrinsically safe models: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups A, B, C, D, E, F, G hazardous locations and Non-Incendive Class I, Div. 2, Groups A, B, C & D hazardous locations.
Important Note Regarding Intrisically Safe Certification: Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.

Land-Mobile Price List

TK-5210

VHF FM Conventional & P25 Digital Portable Radios

Model	*Description*	*List*
VHF	***Spring Action Belt Clip Included. Antenna, Battery & Charger order separately.***	
TK-5210K	136-174MHz 5W Basic Unit (no LCD display; no front panel keys)	$1,500.00
TK-5210K2	136-174MHz 5W 16-Character Alphanumeric Dot Matrix LCD, 4 control keys	1,750.00
TK-5210K3	136-174MHz 5W 16-Character Alphanumeric Dot Matrix LCD, 4 control keys; DTMF/Function keypad	1,900.00

TK-5210 FEATURES:

GENERAL (FM & P25)
5 Watt (136-174 MHz)
50 Zones / 512 Channels
Personality Lists
K Model: Basic Unit: No LCD, No front Keys
K2 Model: 16 Character LCD, 4 Control Keys
K3 Model: 16 Character LCD, 4 Control Keys, Keypad
Backlit High-Resolution Dot Matrix LCD [1]
Auto Backlight On[1]
16 Character Alphanumeric Aliases[1]
3-Digit Sub-Display[1]
Function/Status LCD Icons[1]
On/Off Volume Knob
16-Position Selector Knob
2-Position PF Lever Switch
3-Position PF Concentric Switch (A/B/C)
4 Front Menu-Driven PF Keys [1]
3 Side PF Keys
Orange Emergency/AUX Key
12-Key DTMF/PF Keypad [2]
Backlit Keys [1]
Key Lock
Enhanced Kenwood Audio
500 mW Audio Power
Voice Annunciation
VOX Ready
Microphone Sensitivity (Normal & Emergency)
Noise-Canceling Microphone
External Speaker Control
Speaker Attenuation
Emergency Call Features
Emergency Man-Down Option
Emergency Suspend Power Off
Home Zone/CH
Direct Channel Access (5)
Tactical Group[1]
Min / Max. Speaker Volume
Talk Around
Busy Channel Lockout
Time Out Timer
Battery Level Indicator[1]
Low Battery Warning
Battery Saver
Power On LCD Text Message or Clock[1]
Transceiver Password[1]
Data Password (Read/Write)
Date & Time Clock (12/24 Hour)[1]
Windows® Programming & Tuning [5]
Windows ® Firmware Uploading [5]
Field-Programming & Tuning [1]
Cloning [1]
Embedded Message (64 Character)
Embedded Message with Password
Easy Option Port
Weather-Sealed Accessory Connector
MIL-STD-810 C/D/E/F
IP54/55/66 Water & Dust Intrusion
Immersion Option (IP67/MIL-STD 810.512.X Pro.I & IP66)
MIL-STD Noise-Canceling Speaker Microphone
Intrinsically Safe Option
2 Year Warranty

SCAN TYPES (FM & P25)
Dual Priority Scan
Scan Lists (16)
Scan Revert Channel Display[1]
Priority Channel Lock Alert
CH Delete/Add
Nuisance Delete
Priority Temporary Delete
Limited Talkgroup Scan[3]
Priority Monitor Scan[3]

P25 DIGITAL
P25 Digital Conventional
P25 Digital Trunking Option
IMBE™ Vocoder
Talk Group ID Lists
Individual ID List
Caller ID Display[1]
RSSI Indicator[3]
Remote Monitor
Remote Check
Radio Inhibit
Call Response Key
Clear Alert Tone
Encryption Key Delete
DES 16-Key Encryption Option
AES/DES 16-Key Encryption Option
Windows® DES/AES Key Programming [5]
KPG-93 Motorola KVL3000 Interface Cable
OTAR Option

FM
QT / DQT
Operator Selectable Tone (40 pairs)[1]
Two-Tone Decode (4 sets x 4 formats)
DTMF Decode (2 codes)
DTMF Radio Stun
DTMF PTT ID
DTMF Emergency ANI
DTMF Manual Encode[2]
DTMF Auto-Dial (32 numbers)[1]
Signaling AND/OR
Special Alert Tone Patterns (8)[4]
Encryption Board Control (16 Keys)
ANI Board Control
Companded Audio per Channel

FLEETSYNC® (FM)
FleetSync® or FleetSync® II
PTT ID Digital ANI
100 ID List Capacity
Caller ID Display[1]
Caller ID Stack [1] (last 3 calls)
Status Messaging[1]
90 Status Message List [1]
10-79 Custom Dispatch Statuses
10 Reserved Statuses
ST 98: Man-Down Emergency (portables)
ST 99: Emergency Status
ST 88: Emergency Mode Off
ST 89: Horn Alert Request (mobiles)
ST 90: Stun radio (No TX)
ST 91: Stun radio (No TX / No RX audio)
ST 92- Turn off Stun
ST 93- ACK stun is ON
ST 94- ACK stun is OFF
ST 80- No Such Status Programmed Response
ST 81-87, 95-97 (Reserved for future use)
Selective Call
Short Text Messages (stored/display)[1]
Power On/Off Status Messages
Group Call (10 groups)

INCLUDED ITEMS
Spring Action Belt Clip
English/Spanish Instruction Manual

[1] K2/K3 LCD models only
[2] K3 LCD, keypad model only
[3] P25 Trunking Option required
[4] Operates for 2-Tone, DTMF, FleetSync® selective calling
[5] KPG-95D Software: Windows® 98/ NT/ 2000/ Me/XP compatible

FM APPROVED

TK-5210 Series Portables [Intrinsically Safe]

FM Certified Radio

Must Order L-986 to configure radio for Intrinsically Safe

Choose FM Approved Acc.[1] from Next Page to Customize a Radio Package

FM Approved Model	Description	List
VHF	***Spring Action Belt Clip Included. Antenna, Battery & Charger order separately.***	
TK-5210-ISK	136-174MHz 5W Basic Unit (no LCD display; no front panel keys) **[I.S. Approved]**	$1,500.00
TK-5210-ISK2	136-174MHz 5W 16-Character Alphanumeric Dot Matrix LCD, 4 control keys **[I.S. Approved]**	1,750.00
TK-5210-ISK3	136-174MHz 5W 16-Character Alphanumeric Dot Matrix LCD, 4 control keys; DTMF/Function keypad **[I.S. Approved]**	1,900.00

Accessories for TK-5210 Portables

Model	Description	List
ANTENNAS		
KRA-26M	VHF helical antenna 146-162 MHz	14.00
KRA-26M2	VHF helical antenna 162-174 MHz	14.00
KRA-26M3	VHF helical antenna 136-150 MHz	14.00
KRA-22M	VHF Low-profile helical antenna 148-162 MHz	13.00
KRA-22M2	VHF Low -profile helical antenna 162-174 MHz	13.00
KRA-22M3	VHF Low-profile helical antenna 136-150 MHz	13.00
KRA-16M	VHF stubby antenna 148-162 MHz	13.00
KRA-16M2	VHF stubby antenna 162-174 MHz	13.00
KRA-16M3	VHF stubby antenna 136-150 MHz	13.00
KRA-25	High Gain VHF Helically Loaded ¼ Wave Whip Antenna 148-162 MHz; SMA-F connector Note: The KRA-25 is 9.75 inches long. This is 3.75 inches longer than a normal VHF helical antenna! Stocked in limited quantities. Allow up to 8 weeks for delivery.	32.50
KRA-28	Broad Band VHF **Helically Loaded ¼ Wave Whip Antenna 140-170 MHz Note:** The KRA-28 is 9.75 inches long. Stocked in limited quantities. Allow up to 8 weeks for delivery.	40.00
BATTERIES AND CHARGERS		
	Estimated Availability of Intrinsically Safe Option and Batteries: 3Q 2005	
KNB-32N	2500 mAh NiMH, 7.2 VDC battery; < **12 Hour life**; requires KSC-32 charger (170 min. charge time)	84.00
KNB-33L	1700 mAh Lithium Ion, 7.4VDC battery; **< 8 Hour**; requires KSC-32 charger (130 min. charge time)	100.00
KNB-31A	1700 mAh, Ni-Cd, 7.2 VDC battery; **< 8 Hr. life**; requires KSC-32 charger (80 min. charge time)	67.00
KNB-41NC[1]	2500 mAh NiMH, 7.2 VDC battery; **Must order L-986**; requires KSC-32 charger **Intrinsically Safe**	130.00
KBP-6	Refillable AA Alkaline Battery Pack (Estimated Availability --- June. 2005) **Battery cells not incl.**	65.00
KSC-32	110/220* Volt Rapid Rate Single Unit Tri-Chemistry Charger for KNB-31A/32N/33L ***Note: Includes** 110/220V auto-switching AC adapter with U.S.-style line cord plug; requires plug adapter for 220V Euro-style outlets (not supplied).	67.00
KMB-23	Six Unit Charger Adapter for the KSC-32,25,24 & 16 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KVC-15	Rapid rate DC vehicular charger adapter for the KSC-32 (chargers not included; includes KSC-mobile bracket & cigarette lighter cable DC adapter)	114.00
CARRYING ACCESSORIES		
KBH-11	Spring action belt clip (2.5") - Same as Supplied	14.00
KBH-8DS	Leather swivel belt loop with portable D-Ring attachment	25.00
KLH-6SW	Leather swivel belt loop / detachable swivel D-Ring back for KLH-133/134	21.00
KLH-133K	Heavy duty leather carrying case for TK-5210K (Non-LCD / front keypad models)	42.00
KLH-133K2	Heavy duty leather carrying case for TK-5210K2 (Non-DTMF keypad models)	42.00
KLH-133K3	Heavy duty leather carrying case for TK-5210K3 (DTMF keypad model)	42.00
KLH-134K	Cordura Nylon carrying case for TK-5210K, (Non-LCD / front keypad models)	25.00
KLH-134K2	Cordura Nylon carrying case for TK-5210K2 (Non-DTMF keypad models)	25.00
KLH-134K3	Cordura Nylon carrying case for TK-5210K3 (DTMF keypad model)	25.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for KLH-133K / K2 / K3	35.00
MICROPHONES AND SPEAKERS		
KEP-1[1]	3.5mm earphone kit for KMC-25/26 Speaker mics (black only) **Intrinsically Safe**	50.00
KCT-30[1]	2.5mm Audio Accessory Adapter for KEP-3/4 **Intrinsically Safe**	61.00
KEP-3[1]	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) **Intrinsically Safe**	49.00
KEP-4[1]	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) **Intrinsically Safe**	52.00
KMC-25[1]	MIL-SPEC, Noise canceling Speaker mic **Intrinsically Safe**	92.00
KHS-11BE[1]	2-wire palm mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **Intrinsically Safe**	149.00
KHS-11BL[1]	2-wire palm mic w/earphone, universal connector (Black) **Intrinsically Safe**	149.00
KHS-12BE[1]	3-wire mini lapel mic w/earphone, universal connector. ("Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time). **Intrinsically Safe**	175.00
KHS-12BL[1]	3-wire mini lapel mic w/earphone, universal connector (Black) **Intrinsically Safe**	175.00
KHS-14[1]	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Blk) **Intrinsically Safe**	120.00
KHS-15-BH[1]	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db; (Heavy-duty headsets; Allow min. 4 weeks delivery time). **Intrinsically Safe**	400.00
KHS-15-OH[1]	Hvy-duty noise reduction over-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db. (Heavy-duty headsets; Allow min. 4 weeks delivery time). **Intrinsically Safe**	350.00

Options for TK-5210 Portables

Model	*Description*	*List*
ENVIRONMENTAL SPEC. OPTIONS		
KWD-IM10	Intial Immersion Option Certification (Requires L-987)--Long Beach Tuning Dept. Install only; Re-Certification required every 2 years at Kenwood Service Centers only	350.00
L-987	Initial Immersion Option Certification (must purchase Immersion Option Kit, KWD-IM10 separately)	N/C
2 Yr. Recertification	KWD-IM10 2 Year Re-Certification; Kenwood Service Center install only	TBD
FIRMWARE OPTIONS		
KWD-DE10	TK-5210 DES-OFB Multi-key Encryption Option; 16 keys (Requires L-981) **U.S. DOC/BIS Export Controlled Item (ECCN 5A992A) See notes for information.**	550.00
L-981	Install DES-OFB P25 Encryption Option **(Must purchase firmware option seperately)**	N/C
KWD-AE10	TK-5210 DES-OFB & AES Multi-key Encryption Option; 16 keys (Requires L-982) **U.S. DOC/BIS Export Controlled Item (ECCN 5A002A.1) See notes for information.**	950.00
L-982	Install AES Encryption Option **(Must purchase firmware option seperately)**	N/C
KWD-AR10	TK-5210 Project 25 OTAR Option (Requires L-983)	TBD
L-983	Install OTAR Option **(Must purchase firmware option seperately)**	N/C
KWD-TR10	TK-5210 Project 25 Digital Trunking Option (Requires L-984)	TBD
L-984	Install TK-5210 Project 25 Digital Trunking Option	N/C
OPTION MODULES		
QE-2[1]	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down **Intrinsically Safe** **Important Factory Install Only** **For MDC-1200 install order L-901.** **For G-Star install–order L-902.** **Encryption/ANI Port compatible (hardwire PCB solder land interface; these are NOT Easy Option Port plug-in baords)**	128.00
CAE-3[1] For QE-2 MDC-1200/G-Star Emergency Man-down	QE-2 Emergency Man-Down Internal Tilt Switch **For CAE-3 install for QE-2 Man-down, order L-845 (QE-2 board required)** **Intrinsically Safe**	21.00
CAE-3[1] For FleetSync® Emergency Man-down / P25 Emergency	FleetSync® Emergency Man-Down / P25 Emergency Internal Tilt Switch **Intrinsically Safe** Note This only sends an P25 Emergency; P25 protocol does not have an Emergency "Man-Down" signal For **CAE-3 install for FleetSync® Man-down or P25 Emergency, order L-964 (QE-2 board is not required)**	21.00

QE-2 G-Star®/ MDC1200 Digital ANI Boards by Cimarron Technologies

Pre-programmed & installed boards require a completed "QE-2 Information and Order Sheet" (available from Kenwood LMR Order Desk) submitted with order.

Notes:

a. QE-2's are Kenwood installed only; these are not available as "shipped loose" (pre-programmed or not).

b. Allow a min. 1 week delivery ARO for 1- 25 units (allow min. 3 weeks for 25 units and up).

c. Emergency "Man-down" feature requires an installed CAE-3 internal man-down tilt switch option (portables only).

d. QE-2 Programmers are NOT available from Kenwood. Purchase model QPF-2, direct from Cimarrron Technologies Call 800-487-7184 www.cimtechcorp.com

Encryption Boards

The radios Encryption/ANI Port (PCB hardwire solder lands) is designed to interface with the typcial aftermarket encryption and ANI boards.

This radio supports the interface required for boards from the following manufacturer(s); contact the manufaturer for product information and Kenwood radio model application notes:

Transcrypt Secure Technologies

3900 NW 12th Street, Suite 200

Lincoln, NE 68521

Phone: 800-228-0226

website: www.transcryptsecure.com

Options for TK-5210 Portables

Model	Description	List
SERVICE RELATED ACCESSORIES		
KPG-36	Programming interface Cable	N/A
KPG-95DK V3.00 or later	Windows® Programming Software for TK-5210/5710 (98, ME, 2000 & XP compatible) No DES/AES encryption key loader An export license may be required (DOC/BIS ECCN 5D991)	598.00
KPG-95DTKL V2.00	Windows® Programming Software for TK-5210/5710 (98, ME, 2000 & XP compatible) Includes DES/AES encryption key loader; An export license is likely required (DOC/BIS ECCN 5D002A)	598.00
	IMPORTANT: KPG-95D ships with a "Dealer Level License ID". This permits Conventional FM and P25 Conventional radio programming privileges only (not P25 Trunked/network programming privileges). The TK-5210 P25 Trunking Option for the radio is not currently available for sale and will require purchase of the P25 Trunked Network Option and the Install Labor Code (no charge). To enable the KPG-95D for P25 Trunked Networked level programming privileges will require 1) Written verifiable authorization from the network owner/operator. 2) The 3-digit hexidecimal System ID from the network owner/operator. 3) Purchase of a KPG-95D Network Level ID Privilege option; Labor Code-989 (includes an encrypted KPG-95D "System Key Data File" containing the 16-digit Network Level License ID & 3-digit hexi-decimal System ID code)	
L-989	KPG-95DK Network Level ID Privilege (encrypted data file)	132.00
KPG-93	TK-5210/5400 KVL-3000 Interface Cable	250.00

Installation/Tuning Charges for TK-5210 Portables

Model	Description	List
L-990	Tune TK-5210 (Basuc TX/RX check only with factory test freq.s or dealer/customer provided KPG-95D data file)	125.00
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-901	Program and install QE-2 MDC1200 Encoder	75.00
L-902	Program and install QE-2 G-Star® Encoder	75.00
L-845	Install CAE-3 (w/ QE-2 for QE-2 MDC-1200/G-Star® Emergency Man-down)	9.00
L-964	Install CAE-3 (for FleetSync® Emergency Man-down/P25 Emergency)	9.00
L-986	Configure TK-5210-IS for Intrinsically Safe; m**ust order an I.S. battery**	100.00
L-981	Install DES-OFB P25 Encryption Option **(Must purchase firmware option seperately)**	N/C
L-982	Install DES-OFB P25 & AES Encryption Option **(Must purchase firmware option seperately)**	N/C
L-983	Install OTAR Option **(Must purchase firmware option seperately)**	N/C
L-987	Initial Immersion Option Certification (must purchase Immersion Option Kit, KWD-IM10 separately)	N/C

IMPORTANT NOTES:

[1] **FM approved by Factory Mutual as intrinsically safe for usa in** Classes I, II & III, Div. 1, Groups D, E, F, G and are also approved for non-Incendive use in Class I, Div. 2, Groups A,B, C, D hazardous locations.
Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company.
Note: Class I, Div 2 Group A & B Gases require use of a portable carrying case.

FM Repairs, Approved Accesories & Aftermarket Boards: FM radios are Kenwood Factory & Authorized Service Center repaired only (East, West & United Radio). Do not imodify the radio, install any non-approved audio accessories, boards or other devcies to the radio. Antennas and carrying accessories do not need approvals and are accepatble for FM use. Only the Kenwood accesories/options marked as Intrinsically Safe listed in these price pages and the following aftermaret accesories are approved with this radio:

KW21 -400, -416, -430, -460 Transcrypt Scramblers
SC20-400, -416, -430, - 460 Transcrypt Scramblers
CIM1000 G-Star/MDC-1200 Encoder Cimarron Technologies

Evolution V2-10134 Speaker Mic Otto Communications
Genesis V2-G2KB211 Speaker Mic Otto Communications
Genesis V2-G2KB321 Speaker Mic Otto Communications
Lightsword V-D2KB111 Speaker Mic Otto Commmunications
Hurricane V4-HC2KB1 Headset Otto Communcations

2 KWD-DE10 (DES-OFB) or KWD-AE10 (AES) High Level Encryption Options and radios containing encryption are export controlled by the U.S. Department of Commerce Bureau of Industry & Security EAR regulations and may either require an Export License, are eligible for a License Exception (ENC) or are exportable with No License Required (NLR) depending on the country, the consignee and the intended use. High level encryption is a special commodity that may likely require an export license to most countries. See www.bis.gov for more information regarding export regulations. DO NOT SHIP encryption items outside the U.S. without proper DOC/BIS Export License and/or compliances. Kenwood may request the follwoing information to be submitted at time of order (this information must meet Kenwood internal approvals prior to shipment even if being returned to Kenwood later):
a. Initial Destination: Intial delivery point if different from Ulitmate Destination (customer distribution center, headquarters, dealership, manufacturer's representative)
* Business/Agency Name:
* Address
* Contact Person Name
* Contact Phone:
b. **Ultimate Destination:** Final delivery point(s); deployment/distribution
* Business/Agency Name
* Address:
* Contact Person Name:
* Contact Phone:
c. Intended Use of Radios: Law enforcement, security, operations, etc.

KENWOOD

Jun-05
Last Revised: 06/01/05

Land-Mobile Price List

NOT A DIRECT REPLACEMENT FOR TKR-720/820

TKR-750/850

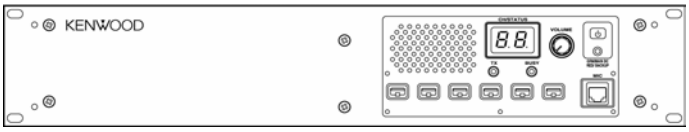
UHF/VHF Base Station / Repeaters

Model	*Description*	*List*
Important Note: For TKR-750/850 "simplex base station" use, also purchase an antenna relay KSG-9010050		
VHF	***Includes: DC Power Cable, rack handles and hardware, adjustable mounting plate for DC power supply (DC power supply sold seperately)***	
TKR-750K	VHF 146-174 MHz 25-50W, Base-Repeater	$1,483.00
TKR-750K2	VHF 136-150 MHz 25-50W, Base-Repeater	$1,483.00
KSG-9010050	Antenna Relay (See Note Above)	$340.14
UHF	***Includes: DC Power Cable, rack handles and hardware, adjustable mounting plate for DC power supply (DC power supply sold seperately)***	
TKR-850K	UHF 450-480 MHz 25-40W, Base-Repeater	1,583.00
TKR-850K2	UHF 480-512 MHz 25-40W, Base-Repeater	1,583.00
TKR-850K3	UHF 400-430 MHz 25-40W, Base-Repeater	1,583.00
KSG-9010050	Antenna Relay (See Note Above)	$340.14

Important -PassPort NTS Network Applications

The TKR-850 and systems built with this repeater are NOT compatible with PassPort NTS use.

TKR-750/850 FEATURES:



GENERAL FEATURES:

TKR-750 VHF 25-50 Watts adjustable
TKR-850 UHF 25-40 Watts adjustable
19" Rack Mount Design
Continuous Transmit Duty (100% @ 25W / 50% @ 50/40W)
Wide/Narrow Channel Spacing Per Channel
(UHF: 25/12.5 kHz; VHF: 25, 20/ 15,12.5)
Primary DC Input Connector (AC-to-DC power supply optional)
Auto-Switched Back-up DC Input Connector
Rear External Speaker Output (4 W Audio)
Rear Accessory / Logic Controller Connector (25 Pin)
Rear Test-Speaker-AUX Connector (15 Pin)
Built-in Cooling Fan (temperature or carrier controlled)
Programmable AUX Input /Output Functions
Macro-Function AUX Inputs
DSP Processed QT/DQT
DSP Processed Companded Audio (simplex base operation)
QT/DQT Squelch-Tail Elimination
Electronic Serial Number (ESN)
Embedded Message with Password Protection
High Stability Oscillators (TCXO)
Windows 95/98 compatible PC programming & tuning
Flash Memory
2 Years Parts and Labor Warranty

REPEATER FEATURES:

Full-Duplex Operation
Built-in 16 QT/DQT Community Repeater Operation
External Controller Interface
Conventional or Trunking Controller Compatible
Repeat Enable / Disable
CW Transmitter ID
Repeat Hold Timer (hang timer)
Time Out Timer

BASE STATION FEATURES:

16 Channel
Simplex or Full Duplex Operation
Priority Scan
Remote Control Inputs
2-Digit LED Channel & Scan Indicator
Power/Transmit/Busy LED Indicators
6 Lighted PF Keys
Local Takeover / Remote PF Key
Channel Up/Down PF Keys
Volume Control Knob
Front Microphone Jack
Front Panel Speaker
Voice Encryption Option Port

Accessories for the TKR-750/850 Repeaters

Model	Description	List
MICROPHONES AND SPEAKERS		
KMC-27A	Heavy-duty noise-canceling mobile hand microphone	$99.00
KMC-27B	Heavy-duty mobile hand microphone	40.00
KMC-9C	Base Station Desktop microphone	82.00
KES-4	External Speaker	59.00
POWER SUPPLY		
KPS-15* *(see notes below)*	DC Switching Power Supply (117/230 VAC; 23A max. continuous, 25A peak) ***Compatible with medium & high power compact mobiles only:** 60/60G/60H/60HG/62/62G/60H/60HG/80-series mobiles; TKR-750/850, Use: 50% transmit duty cycle ONLY!!!	167.00

ORDERING NOTES:
1. **AC-to- DC Power Supply (not included).**
2. KPG-66D programming software should be ordered for first time purchases. The KPG-46 program cable is the same cable for the 60G/80-Series compact mobiles.

SERVICE RELATED ACCESSORIES		
KPG-46	Programming interface cable	N/A
KPG-66D	Programming Software	N/A
**********	Call Kenwood Service Corporation Parts Dept. at 800-367-7514 to order the following; prices and availability are subject to change without notice per KSC Parts Dept. policy :	
E30-3427-15	DC Power Cable - **same as supplied**	19.81

Installation / Tuning Charges for the TKR-750/850 Repeaters

Model	Description	List
L-916	Tune TKR-750/850	30.00
L-923	RX center frequency adjustment for TKR-750/850 **Note:** *This alignment is needed to get maximum performance of the receiver and to reduce the possibility of desense in the repeater.*	25.00

Notes about duplexer selection for the TKR-750/850/740/840/830:

1. TX-RX frequency spacing greater than the minimums (below) require special consideration and design. Duplexers are designed for single channel applications only.
2. An investment in premium 6-cavity band-pass/band-reject duplexers is highly recommended as opposed to more economical lower performance 4-cavity duplexers which could result in de-sense problems. Miniature 4-cavity mobile duplexors are absolutely NOT recommended (despite the options space available in the TKR-750/850 housing) .

Examples:

TKR-850/840/830: 6-cavity band-pass/band-reject duplexer, Telewave model TPRD-4546, minimum TX-RX spacing 3 MHz
TKR-750/740: 6-cavity band-pass/band-reject duplexer, Telewave model TPRD-1556, minimum TX-RX spacing 400 kHz

3. It is recommended that Kenwood dealers purchase Telewave or other brand/model duplexers of equivalent specifications directly from the duplexer manufacturer/distributor for single unit/small volume needs for reasons of costs, support and warranty issues. Kenwood systems division uses and re-sells Telewave brand duplexers for a majority of system installations, however, Kenwood can only offer comparable OEM pricing and support on duplexers when sold as integrated components of a Kenwood system package.

*** KPS-15 and the TKR-750/TKR-850 Repeaters:**

Kenwood does not install KPS-15's into TKR-750/850 repeaters (dealer install only). Please note the combined shipping weight of a TKR-750/850 and a KPS-15 exceed the rated capacity of the TKR-750/850 factory cartons.The KPS-15 D.C. power supply is Kenwood approved for use on both the TKR-750 and TKR-850 repeater units (operating at rated 50% transmit duty-cycle). This does not apply to any other Kenwood repeater model. The KPS-15 may require a 1 minute warm up at -30 C (due to wet electrolytic capacitors).

Dealer Installation Guide:

Required hardware/accesories NOT supplied: foam weather stripping, cable clamps, spade lugs or written instructions.
1. Use the mounting shims and bracket supplied with the TKR-750/850 to mount the KPS-15 inside the TKR-750/850.
2. Mount the KPS-15 with the Power Switch facing out the rear of the TKR-750/850.
3. A.C. & D.C. cables should be secured inside the TKR-750/850 using two 3/8" wide x 3/8" diameter plastic cable clamps.
4. Terminate the D.C. cable with No. 8-10 stud spade lugs or similar.
5. Use a 12-inch long strip of 3/8" wide x 7/16" thick foam rubber weather stripping to partition the top incoming cool and bottom outgoing hot air. Place this stripping on the underside of the KPS-15 to seal against the TKR-750/850 as follows: 2 1/2-inch along the KPS-15 front edge (facing the TKR-750/850 rear): a 7-inch length behind the cooling fan on the KPS-15 bottom and a 2 1/2-inch length along the KPS-15 back edge (facing the TKR-750/850 front).