

SERVICE MANUAL FOR UHF FM MOBILE/REPEATER AND UHF FM MOBILE/TELEPHONE KG106-40 SERIES

ZR 600

SAFETY INFORMATION

Please read the following precautions before operating your mobile/repeater or mobile/telephone radio:

- Do not operate the radio if someone outside the vehicle is within two feet (0.6 meters) of the antenna.
- Do not operate the radio in an explosive atmosphere.
- Do not operate the radio in a blasting area or while transporting unprotected blasting caps.
- Do not operate the radio unless all RF connectors are secure and open connections are terminated.
- Do not permit untrained personnel to operate the radio.

WARNING

This device emits radio frequency energy. This radio has been tested for proper operation and conforms to all Federal Communications Commission (FCC) Rules and Regulations.

If your vehicle contains on-board computer systems (such as electronic fuel injection, electronic cruise control, anti-skid braking systems, etc.), they may not be protected from interference caused by radio frequency energy. Interference, if it occurs, could result in your losing control of the vehicle. Consult the vehicle dealer or manufacturer about the immunity of these devices to possible interference. As the vehicle owner or operator, it is your responsibility to check for possible interference before operating the radio while the vehicle is in motion.

It is mandatory that radios installed in vehicles propelled by a liquid petroleum gas fuel system must conform to National Fire Protection Association standard NFPA 58, which requires that:

- Any space containing radio equipment will be isolated from the space in which the LP-Gas container and fittings are located by a seal.
- Remote (outside) filling connections will be used.

Venting of the container space to the outside is provided.

TABLE OF CONTENTS

SECTION 1		INTRODUCTION	
	1.1	Scope Of The Manual	I
	1.2	Description	1
	1.3	CTCSS Option	1
	1.4	Accessories	1
	1.5	Unpacking And Inspection	1
			_
SECTION 2		PROGRAMMING	
	2.1	General	د
	2.2	Frequency Programming	د
	2.2.1	Reference Division Rate "R"	د
	2.2.2	Transmit Channel Data	د
	2.2.3	Receive Channel Data	
	2.2.4	The Memory Map	6
	2.2.5	Programming The EPROM	۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰
	2.3	EPROM Installation	οο
	2.4	EPROM Charts	
SECTION 3		TUNING	
	3.1	Tools And Test Equipment	46
	3.2	Receiver Adjustment	46
	3.3	Transmitter Adjustment	48
	3.4	RX/TX Voltage Waveforms	48
	3.5	PA Unit Adjustment	50
	3.6	Handset Base Unit	51
	3.7	Handset Main PCB	51
	3.8	Handset Level Settings	
	3.9	Handset Voltage Waveforms	33
SECTION 4		INSTALLATION	
	4.1	Power Wiring	54
	4.2	Drilling Or Cutting Holes	54
	4.3	Cable Routing	54
	4.4	Vehicle Electronics	54
	4.5	Installation Procedures	54
	4.6	Antenna	55
	4.7	Transmitter/Receiver Unit	55
	4.8	Control Cable	55
	4.9	Power Cable	55
	4.10	Microphone Hang-up Clip	55
	4.11	Handset	57
SECTION 5		OPERATION	58
	5.1	Transceiver Features	
129	5.2	Power Switch	58
	5.3	Transmit Indicator	58
	5.4	Volume Control	58
	5.5	Noise Squelch Control	58
	5.6	Busy & Repeater On/off Indicato	59
	5.7	Channel Selector & Indicator	59
	5.8	Tone Selector & Indicator	59
_ i#	5.9	Microphone Jack	5
	5.10	Reneater Microphone Features	
	5.11	Puch-To-Talk	
	5.12	Operator Priority	01
	5.12	Repeater Time Limiter	04
	5.14	Microphone Monitor Switch	00
	5.15	Tone Squelch Ontion	09
	5.16	Handset Features	04
	5.17	Handset (Telephone Models)	6

ISSUE DATE: 8/01/91

	5.18	Determining Current Dialing Mode			.61
	5.19	Manual-Only DTMF Mode		1110-1111-1111-1111-1111-1111-1111-1111-1111	.61
	5.20	General Autodialing Information			.61
	5.21	"Stone And Sand" Operation		 an an Authority of a city. 	.62
	5.22	Timed Manual Entry In Case Of Difficulty		ing politicated the special state of the sta	.62
	5.23	In Case Of Difficulty			.62
9 11	5.24	Enter Dealer Programming Mode			.62
	5.25	Selection Of User Dialing Modes			.62
	5.26	ANI Programming			.63
	5.27	Other Programmable Features			.63
	5.28	ANI Programming Problems			.63
SECTION 6	3 на	TECHNICAL DESCRIPTION		the state of the s	
	6.1	Receiver			.64
	6.1.1	Audio			
	6.1.2	Squelch		······································	.64
	6.1.3	Simplex/Duplex			.64
- T	6.2	PLL Section			.64
	6.3	Receiver VCO	······		.64
	6.4	Transmit VCO	***************************************		.65
	6.5	Transmitter			.65
	6.6	Modulation Section			.65
	6.7	Transmitter PA			.65
	6.8	Control Unit		(e/ 1946), 1946); (rykalytyk); (sp. 1946); ************************************	.69
	6.8.1	Microphone Circuit			.69
	6.8.2	Speaker	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.69
	6.8.3	Power Switch	***************************************		.69
	6.8.4	Volume Control	***************************************		.69
	÷ 6.8.5	Squelch Control	***************************************		.69
	~ 6.8.6	Channel Selector And Indicator			.69
	6.8.7	Tone Selectors And Indicators			.69
dan some onte	6.8.8	Voltage Regulator			.70
Partie Parenden (d)	6.8.9	TX Led	and the state of t		.70
	6.8.10	Busy Led			.70
	6.9	Handset			.70
	6.10	Base Unit			
	6.11	Handset Circuit Descriptions	***************************************		.70
SECTION 7	· , 7	TROUBLESHOOTING	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		72
	7.1	Control Interface			
	7.1 := 7.2	Jumper Functions			.72
	7.3	Handset			.72
		Voltage Charts	•••••••••••••••••••••••••••••••••••••••		.75
	7.4				
SECTION 8	8	MAINTENANCE			
	1.8	Disassembly Procedures			.78
50	8.1.1	KG106 Transceiver Unit		***************************************	.78
	8.1.2	KD-357M Microphone	***************************************		.78
	8.1.3	Control Unit	·		.82
	0.2	Desta Tist			.99

terrene

LIST OF TABLES

	a,	_
Table 1-1.	Specifications	2
Table 2-1.	Reference Division Rate Values	5
Table 2-2.	Receiver Frequency EPROM Memory Map	7
Table 2-3.	Transmitter Frequency EPROM Memory Map	7
Table 2-4.	EPROM Installation	8
Table 3-1.	Tools and Equipment	46
Table 3-2.	Procedure To Access Devices	46
Table 3-3.	Receiver Adjustment	46
Table 3-4.	Transmitter Adjustment	48
Table 3-5.	PA Unit Adjustment	50
Table 3-6.	Base Unit DIP Switch Positions	51
Table 3-7.	Handset Main PCB	51
Table 3-8.	Handset DIP Switch Settings	51
Table 3-9.	Level Adjustment	52
Toble 4.1	Transmitter/Pergiver Unit	55
Table 4-2	Microphone Hang-up Clip	55
Table 4-3.	Handset	57
Table 5-1.	Determining Current Dialing Mode	61
Tabel 5-2	General Autodialing Information	61
Table 5-3	Control Codes for Special Functions/Characters	61
Table 5-4.	"Store-and-Send" Operation	62
Table 5-5	Entering Dealer Programming Mode.	62
Table 5-6	Dialing Mode	62
Table 5-7	ANI Programming	63
Table 5-8	Other Programmable Features.	63
Table 6-1.	Microphone Circuit	69
Table 6-2	Control Line States	71
Table 6-3.	DTMF Tone Frequencies	71
Table 7-1.	Control Interface	72
Table 7-2	Jumper Functions	72
Table 7-3	RX Init PII	75
Table 7-4	PY IInit VCO	76
Table 7-5.	TX Unit. PLL / VCO	77
Table 8-1.	KG106	78
Table 8-2	KD-357M Microphone	78
m-L1- 0 2	Control Visit	82

LIST OF FIGURES

Figure 1-1. KG106R Mobile/Repeater	3
Figure 1-2. KG106T Mobile/Telephone	4
Figure 2-1. EPROM Installation	8
Figure 3-1. Receiver Adjustment	47
Figure 3-2. RX/TX Voltage Waveforms	48
Figure 3-3. Transmitter Adjustment	49
Figure 3-4. PA Unit Adjustment	50
Figure 3-5. Opening the Handset Case	51
Figure 3-6. Handset Adjustment	52
Figure 3-7. Handset Voltage Waveforms	53
Figure 4-1. Front Mount Installation	54
Figure 4-2. Trunk Mount Installation	54
Figure 4-3. Installation-Mobile/Repeater	56
Figure 4-4. Handset Installation	57
Figure 5-1. Transceiver Controls and Features.	58
Figure 5-2. Repeater Microphone Controls and Features	
Figure 5-3. Single Tone CTCSS	60
Figure 5-4. Handset Controls and Features.	60
Figure 6-1. KG106 RX/TX/PA Block Diagram	67
Figure 6-2. Terminal/Control/Mic./Handset Block Diagram	68
Figure 6-3. Handset Base Unit Component Layout	70
Figure 7-1. Jumper Positions on Terminal Unit PCB	73
Figure 7-2. Handset Troubleshooting Flowchart	74
Figure 8-1. Exploded View of KG106 Transceiver Unit	79
Figure 8-2. Exploded View of KD-357M Microphone	
Figure 8-3. Exploded View of Control Unit	
Figure 8-4. DTMF Handset Schematic	
Figure 8-5. Handset Base Unit Schematic	
Figure 8-6. KG106 Terminal Unit Schematic	
Figure 8-7. KG106 Microphone/Control Unit Schematic	
Figure 8-8. KG106 RX Unit Schematic	
Figure 8-9. KG106 TX Unit Schematic	
Figure 8-10. KG106 PA Unit Schematic	
Figure 8-11. KG106 Duplex/CTCSS Schematic	91
Figure 8-12. KG106 Wiring Diagram	
Figure 8-13. KG106 Terminal Unit Components Layout	
Figure 8-14, KG106 Control Unit Components Layout	
Figure 8-15. KG106 RX/TX Units Components Layout	95
Figure 8-16. KG106 PA Unit Components Layout	
Figure 8-17. Duplex/CTCSS Components Layout	97

SECTION 1. INTRODUCTION

1.1 SCOPE OF THE MANUAL

This manual is written for experienced technicians. It contains the information needed to properly install, operate and service the KG106 series UHF FM mobile/repeater system and mobile telephone systems.

Certain optional and accessory items are shipped separately, complete with applicable instructions.

1.2 DESCRIPTION

The KG106 UHF FM Mobile/Repeater provides up to 25 watts at the output of the optional internal duplexer (continuous duty). The system may be operated from any 12V (nominal) negative ground source capable of up to 10A continuous duty. This could include a vehicle battery, AC power supply or a small battery pack for low power portable applications.

The transceiver circuitry and duplexer is contained in a rugged die-cast housing suitable for front or trunk mounting. The system is capable of selecting any of 16 channel pairs within the operating band width of the duplexer. Channel information is contained in two 2764 type EPROMs, one each for the transmitter and receiver. Models are available from 335 to 520 MHz in 6 band splits.

The KG106 control unit is compact, easy-to-use, and built for in-dash or under-dash mounting. In the repeater version, the push-to-talk button, a monitor switch and repeater-on/repeater-off buttons are located on the external microphone to maintain driver safety. In the telephone models, the DTMF handset permits manual dialing by means of a lighted keypad. All other controls (including LEDs) are on the front panel of the control unit. The internal speaker provides 1W of audio and an optional 2W external speaker is available.

1.3 CTCSS OPTION

With the CTCSS option, you hear only messages having the proper encoded tone signal. A transmitter containing a tone squelch encoder transmits a low frequency tone with the message. The receiver includes a tone squelch decoder. It unsquelches only when the proper tone is present on the transmitted carrier.

1.4 ACCESSORIES

You may also add the following accessories to your KG106:

- Suitcase enclosure for transportable operation.
- · External battery pack.
- · External AC power supply.
- · Antenna.
- Antenna tripod for quick set-up in the field (transportable operation).
- · EPROM programmer.

1.5 UNPACKING AND INSPECTION

The KG106R Mobile/Repeater system consists of the components shown in Figure 1-1. The KG106T Mobile/Telephone system is shown in Figure 1-2. Upon receipt, visually check the carton for any signs of shipping damage. Immediately report any damage to the carrier.

Next, open the carton and verify that all items shown have been included. If anything is missing, notify Kyodo West at once.

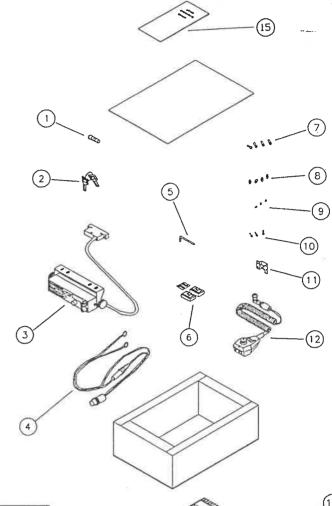
Then inspect each item for signs of hidden shipping damage. Again, report any hidden shipping damage to the carrier.

PAGE 1

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Table 1-1. Specifications

Frequency range KG106-40A:335-370MHz	
KG106-40C: 400-440 MHz KG106-40D: 440-470 MHz KG106-40E: 470-512 MHz KG106-40F: 480-520	
KG106-40D: 440-470 MHz KG106-40E: 470-512 MHz KG106-40F: 480-520 MHz KG106-40F: 480-520 MHz KG106-40F: 480-520 MHz IOJKG10640 Mode of operation Simplex, half duplex, or full duplex Number of channels Up to 16 synthesized Channel spacing 30/25/20 kHz standard, 12.5 kHz optional Channel spread 2.0 MHz TX/RX frequency separation 5 MHz below 470 MHz, 3 MHz above 470 MHz Antenna impedance 50 ohms Power supply 13.6V DC ± 20%, negative ground Power consumption (less control head) 450 mA (standby), 9A transmit (maximum) Duty cycle Continuous Dimensions (ltransceiver) (WXHXD) 220 mm x 347 mm x 82 mm (8.66 in x 13.66 in x 3.23 Weight (transceiver) 6.8 kg (14.9 lbs) Ambient temperature -30° C to +60° C Relative humidity 95% at 35° C TRANSMITTER RF power output 20-40 watts, continuously variable Maximum frequency deviation ± 5 kHz (wide spacing) ± 2.5 kHz (narrow spacing)	
KG106-40E: 470-512 MHz	
KG106-40F; 480-520MHz	
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Frequency response Within +1, -3 dB of 6 dB/octave pre-emphasis from 300 to 3000 Hz,	
Signal to noise ratio More than 50 dB at 1kHz 70% modulation	
Modulation distortion Less than 3% at kHz 70% modulation	
Spurious and harmonics More than 70 dB below rated power	
RECEIVER	
Intermediate frequency 1st IF; 21.6 MHz 2nd IF; 455 kHz	
Frequency stability ± 0.0005% (wide spacing) ± 0.0003% (narrow spaci	ng)
Sensitivity Less than 0.35 µV for 20 dB noise quieting Less than 0.25 µV for	
Modulation acceptance ± 7 kHz	1200011110
Squelch sensitivity Less than 0.25 uV	
Bandwidth More than 12 kHz for 6 dB down	
Adjacent channel selectivity More than 70 dB at 25 kHz point	
Blocking More than 90 dB	
Intermodulation More than 70 dB	
Spurious responses More than 80 dB	
AF response Within + 1, -3 dB of 6 dB/octave de-emphasis from 0.3 to 3 kHz.	1 kHz reference
AF output 1W internal speaker, 2W external speaker into 4 ohm load, 0 dBm at 6	
AF distortion Less than 5% at 1 kHz 70% modulation	ov oniti balanced line
Signal to noise ratio More than 50 dB at 1 kHz 70% modulation	



REF. NO.	PART NAME	, PART NO.	QTY.
1	FUSE	FU-12.5A	1
2	KĒY	VMZ-C	2
3	CONTROL UNIT		1
4	BATTERY CABLE		- 1
5	WRENCH *	4PAI	1
6	EPROM	MBM2764	2
7	MTG. SCREW		4
8	MTG. WASHER	-	4
9	HANGER WASHER	99-47-1104-23	3
10	HANGER SCREW	99-40-0204-1214	3
11	HANGER	14-11-64-01	1
12	MICROPHONE	KD-357M	1
13	TRANSCEIVER	KG106	1
14	MTG. BRACKET	3A10-0319	1
15	OPERATOR'S MANUAL		1

NOTE :

 ALL KG106 MOBILE/REPEATER PARTS ARE ENCLOSED IN PLASTIC BAGS

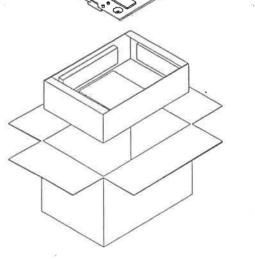


Figure 1-1. KG106R Mobile/Repeater

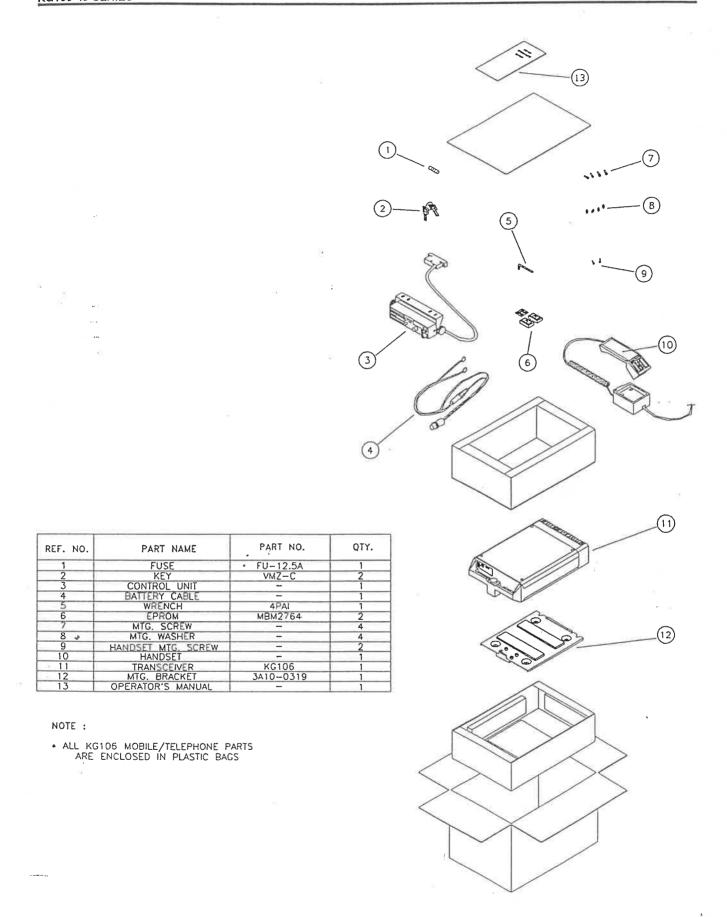


Figure 1-2. KG106T Mobile/Telephone

PAGE 4