

PARTS LIST

GMRS750 (AMWUT896)

Note: This parts list shows only for "active components" in a transmitter, such as transistors, integrated circuits, crystals, and such.

REF No	DESCRIPTION	SPEC	FUNCTION
D101	DIODE	1SS390 TE61	ANT SW
D102	DIODE	1SS390 TE61	ANT SW
D201	DIODE	GD LL4148	MIC SW
D204	DIODE	1SS226 TE85L	VOX DET
D302	DIODE	GD LL4148	PWR SW
D303	DIODE	GD LL4148	PWR SW
D304	DIODE	GD LL4148	PWR SW
D305	DIODE:LED	LTST-S320KFKT	LED
D306	DIODE:LED	LTST-S320KFKT	LED
D401	DIODE	MA2SV0200L	VCO
D402	DIODE:VARICAP	HVU307 TRU	REF OSC
IC101	INTEGRATED CIRCUIT	NJM2904M (TE3)	AF AMP
IC102	INTEGRATED CIRCUIT	NJM386M TE3	SP AMP
IC201	INTEGRATED CIRCUIT	NJM2904M (TE3)	MIC AMP
IC202	INTEGRATED CIRCUIT	NJM2904M (TE3)	AF FILTER
IC302	INTEGRATED CIRCUIT	NJM2870F03(TE1)	REGULATOR
IC303	INTEGRATED CIRCUIT	XC61CC2202MR/XC61AC2202MR	RESET
IC304	INTEGRATED CIRCUIT	AT24C02N-10SI-1.8	EEPROM
IC371	INTEGRATED CIRCUIT	NJM2904V(TE2)	DATA FILTER
IC401	INTEGRATED CIRCUIT	AN6311NFA-V	COMBO IC
Q100	TRANSISTOR	DB-848 2SC5065-Y(TE85R)	RF AMP
Q101	TRANSISTOR	DB-848 2SC5065-Y(TE85R)	RF AMP
Q102	TRANSISTOR	DB-848 2SC5065-Y(TE85R)	MIXER
Q103	TRANSISTOR	DB-862 2SC3052-T12-1F	SQ SW
Q104	TRANSISTOR	DB-090 2SA1365-T12-F T1	SQ SW
Q151	TRANSISTOR	DB-848 2SC5065-Y(TE85R)	RF AMP
Q201	FIELD EFFECT TRANSISTOR	DC-058 2SK3079A(TE12L)	TX FNL AMP
Q202	TRANSISTOR	DB-860 2SC5754-FB	TX DRIVER
Q203	TRANSISTOR	DB-1075 55GN01M-TL	TX PRE DRIVER
Q204	TRANSISTOR	DB-862 2SC3052-T12-1F	TX PWR H/L SW
Q205	TRANSISTOR	DB-126 2SB1115-YL T1	TX MUTE SW
Q206	TRANSISTOR	DB-862 2SC3052-T12-1F	FINAL SW
Q207	TRANSISTOR	DB-862 2SC3052-T12-1F	PWR SW
Q208	TRANSISTOR	DB-862 2SC3052-T12-1F	PWR CNT

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Q211	TRANSISTOR	DB-092 2SA1235A-T12-1F	PWR CNT
Q301	TRANSISTOR	DB-092 2SA1235A-T12-1F	PWR SW
Q302	TRANSISTOR	DB-862 2SC3052-T12-1F	PWR SW
Q304	TRANSISTOR	DB-862 2SC3052-T12-1F	LEVEL SHIFTER
Q305	TRANSISTOR	DB-862 2SC3052-T12-1F	LEVEL SHIFTER
Q306	TRANSISTOR	DB-862 2SC3052-T12-1F	BACKLIT SW
Q401	TRANSISTOR	DB-866 2SC5635-T22-1U	LOCAL AMP
Q402	TRANSISTOR	DB-848 2SC5065-Y(Te85R)	VCO
Q403	TRANSISTOR	DB-862 2SC3052-T12-1F	RIPPLE FILTER
Q404	TRANSISTOR	DB-718 2SC2714-Y TE85L	DATA SW
Q405	TRANSISTOR	DB-090 2SA1365-T12-F T1	TX FNL SW
Q406	TRANSISTOR	DB-092 2SA1235A-T12-1F	RX SW
Q407	TRANSISTOR	DB-092 2SA1235A-T12-1F	TX SW
Q408	TRANSISTOR	DB-092 2SA1235A-T12-1F	SYNTH SW
Q409	TRANSISTOR	DB-092 2SA1235A-T12-1F	TX FINAL SW
Q410	TRANSISTOR	DB-1075 55GN01M-TL	VCO
Q411	TRANSISTOR	DB-849 2SC5383-T11-1E	SELECT SW
Q412	TRANSISTOR	DB-849 2SC5383-T11-1E	SELECT SW
Q413	TRANSISTOR	DB-862 2SC3052-T12-1F	MIC AMP
Q414	TRANSISTOR	DB-862 2SC3052-T12-1F	FINAL SW
X401	CRYSTAL	QX-724 10.1MHZ	REF OSC

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MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UT896ZH			2003/5/14	SAKAI

TITLE	ALIGNMENT OF TRANSMITTER	SUB TITLE	ALIGNMENT PROCEDURE	REF DIAGRAM
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1. ALIGNMENT PROCEDURE

STEP	CH	TEST CONDITION	TX	MEASUREMENT	ADJUST- MENT	CONFIRMATION
1	1	NO MODULATION	ON	FREQUENCY COUNTER	RT403	ADJUST FREQUENCY 462.5625MHz $\pm$ 100Hz
2	8	NO MODULATION	↑	FREQUENCY COUNTER	-	If the Frequency is spec out, Go back to STEP1 CH8:467.5625MHz $\pm$ 200Hz
3	1	MOD : 1KHz LEVEL : 60mVrms	↑	FM LINEAR DETECTOR HPF: OFF LPF:15KHz DE-EMPHASIS. :OFF	RT201	AF DEVIATION $\pm$ 1.9KHz $\pm$ 0.1KHz

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UT8961H							2003/5/30			ONOHISA													
TITLE	TEST MODE				SUB TITLE	CONFIRMATION			REF DIAGRAM														
TEST MODE 1. TEST MODE IN PRESS [chan +] & [wx] , AND TURN POWER TO ON (Press and Hold [select/pwr]) WILL BE STARTED LCD TEST AND LED WILL TURN ON FOR 3sec. 2. TEST MODE OUT TURN POWER TO OFF (Press and Hold [select/pwr]) 3. TEST MODE ITEM *MODE CHANGE : PRESS [select/pwr] (TEST MODE No. WILL INCREASE) . : PRESS [wx] (TEST MODE No. WILL DECREASE) . VOLUME LEVEL TURNS TO 4 BY CHANGING TEST MODE OR CH. (VOLUME LEVEL CAN NOT BE CHANGED IN LCD TEST MODE OR WX ALERT TEST MODE.) 1) LCD TEST MODE 2) TX TEST MODE 3) CTCSS ENCODE TEST MODE 4) TX CALL TEST MODE 5) VOX TEST MODE 6) RX TEST MODE 7) CTCSS DECODE TEST MODE 8) STANDBY TEST MODE 9) WX ALERT TEST MODE 4. TEST MODE PROPER 1) LCD TEST MODE AFTER LOGGING IN TEST MODE, EACH LCD SEGMENT IS GRADUALLY DISPLAYED (LCD TEST MODE) 2) TX TEST MODE WHEN IT GOES INTO TX TEST MODE, CH1 AUTOMATICALLY DISPLAY. PRESS [chan +] OR [chan -] : PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON. PRESS [PTT] , "tx" ICON WILL BE DISPLAYED ON LCD. PRESS [boost] , "tx" & "boost" ICON WILL BE DISPLAYED ON LCD @ CH1 and CH22. PRESS [boost] , "tx" & ICON WILL BE DISPLAYED ON LCD @ CH8. RX MUTE ON. BATTERY SAVE FUNCTION IS ALWAYS OFF. [mon] & [scan] FUNCTION IS INEFFECTIVE.																							
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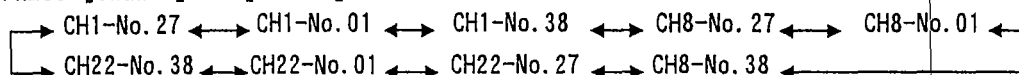
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UT8961H			2003/5/30	ONOHISA

TITLE	TEST MODE	SUB TITLE	CONFIRMATION	REF DIAGRAM
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3) CTCSS ENCODE TEST MODE

WHEN IT GOES INTO THIS TEST MODE, CH1-CTCSS No. 27 IS AUTOMATICALLY DISPLAYED ON LCD.

PRESS [chan +] OR [chan -] :



PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON.

PRESS [PTT] , SENDING CTCSS TONE & "tx" ICON WILL BE DISPLAYED ON LCD.

PRESS [boost] , "tx" & "boost" ICON WILL BE DISPLAYED ON LCD @ CH1 and CH22.

PRESS [boost] , "tx" & ICON WILL BE DISPLAYED ON LCD @ CH8.

RX MUTE ON.

BATTERY SAVE FUNCTION IS ALWAYS OFF.

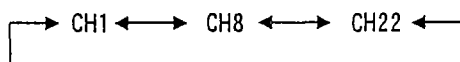
[mon] & [scan] FUNCTION IS INEFFECTIVE.

4) TX CALL TEST MODE

WHEN IT GOES INTO THIS TEST MODE, CH1 IS AUTOMATICALLY DISPLAYED ON LCD.

CALL TONE NUMBER IS DISPLAYED AT CTCSS INDICATOR AND "call" ICON IS DISPLAYED ON LCD.

PRESS [chan +] OR [chan -] :



PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON.

PRESS [PTT] OR [boost] , SENDING CALL TONE. & "tx" ICON WILL BE DISPLAYED ON LCD.

PRESS [call] , CHANGE CALL TONE.

RX MUTE ON.

BATTERY SAVE FUNCTION IS ALWAYS OFF.

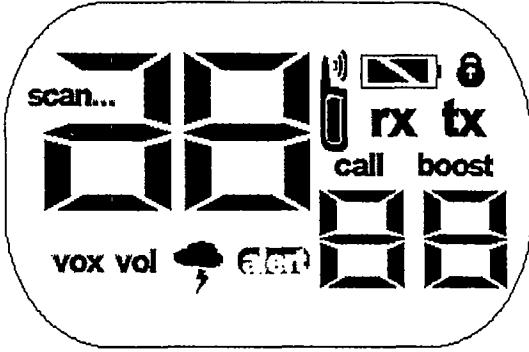
[mon] & [scan] FUNCTION IS INEFFECTIVE.

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UT8961H									2003/5/30			ONOHISA		
TITLE	TEST MODE					SUB TITLE	CONFIRMATION				REF DIAGRAM			
5) VOX TEST MODE WHEN IT GOES INTO THIS TEST MODE, CH1 IS AUTOMATICALLY DISPLAYED ON LCD. VOX LEVEL IS DISPLAYED AT CTCSS INDICATOR AND " vox" ICON IS DISPLAYED ON LCD. PRESS [chan +] OR [chan -] : PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON. BATTERY SAVE FUNCTION IS ALWAYS OFF. RX MUTE ON. PRESS [call] , CHANGE VOX LEVEL. [mon] & [scan] FUNCTION IS INEFFECTIVE. 6) RX TEST MODE WHEN IT GOES INTO THIS TEST MODE, CH14 IS AUTOMATICALLY DISPLAYED ON LCD. PRESS [chan +] OR [chan -] : PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON. RX MUTE DEPENDS ON SQUELCH CONDITION. SQ BUSY (signal ON) → RX MUTE OFF & "rx" ICON WILL BE DISPLAYED ON LCD. SQ OFF (No signal) → RX MUTE ON BATTERY SAVE FUNCTION IS ALWAYS OFF. PRESS [PTT] OR [boost] , NO TX POWER AND ERROR BEEP SOUNDS. (TX INHIBIT). THE CONTINUAL CANCELLATION OF SQ MUTE IS POSSIBLE BY [mon] KEY. CH7 is HEAD SET VOLUME LEVEL CHECK .														
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UT8961H									2003/5/30			ONOHISA								
TITLE	TEST MODE					SUB TITLE		CONFIRMATION			REF DIAGRAM									
7) CTCSS DECODE TEST MODE WHEN IT GOES INTO THIS TEST MODE, CH14, CTCSS No. 27 IS AUTOMATICALLY DISPLAYED ON LCD. PRESS [chan +] OR [chan -] : PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON. CTCSS DECODE FUNCTION ALWAYS ON. RX MUTE DEPENDS ON SQUELCH CONDITION. SQ BUSY (signal ON, CTCSS ON) → RX MUTE OFF & "rx" icon will displayed on LCD. SQ BUSY (signal ON, CTCSS OFF → RX MUTE ON & "rx" icon will displayed on LCD. SQ OFF (No signal, CTCSS OFF) → RX MUTE ON BATTERY SAVE FUNCTION IS ALWAYS OFF. [mon] IS INEFFECTIVE. PRESS [PTT] OR [boost] , NO TX POWER AND ERROR BEEP SOUNDS. (TX INHIBIT). 8) STANDBY TEST MODE WHEN IT GOES INTO THIS TEST MODE, CH14 IS AUTOMATICALLY DISPLAYED ON LCD. PRESS [chan +] OR [chan -] : PRESS [chan +] OR [chan -] FOR 500ms. → AUTO REPEAT FUNCTION ON. BATTERY SAVE FUNCTION IS ALWAYS ON, EXCEPT RECEIVING. RX MUTE DEPENDS ON SQUELCH CONDITION. SQ BUSY (signal ON) → RX MUTE OFF & "rx" ICON WILL BE DISPLAYED ON LCD. SQ OFF (No signal) → RX MUTE ON PRESS AND HOLD [mon] FOR 1.5sec, SQ MUTE TURNS OFF. AND THE CONTINUAL CANCELLATION OF SQ MUTE IS POSSIBLE BY [mon]. PRESS [PTT] OR [boost] , NO TX POWER AND ERROR BEEP SOUNDS. (TX INHIBIT).																				
REVISIONS:	REV. CODE		△		△		△		△		△		△		△		△		△	
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MODEL		UNIT		BLOCK		ISSUE DATE			ISSUED					
UT8961H						2003/5/30			ONOHISA					
TITLE	TEST MODE			SUB TITLE		CONFIRMATION			REF DIAGRAM					
9) WX ALERT TEST MODE WHEN IT GOES INTO THIS TEST MODE, WX 2CH IS AUTOMATICALLY DISPLAYED ON LCD AND WX ALERT WATCH IS ON. CH & VOLUME LEVEL CAN NOT BE CHANGED. RX MUTE DEPENDS ON SQUELCH & DECODE CONDITION. SQ Busy (signal on) & 1050Hz Decode NG → RX MUTE ON SQ Busy (signal on) & 1050Hz Decode OK → ALERT TONE SQ OFF (No signal) → RX MUTE ON BATTERY SAVE FUNCTION IS ALWAYS OFF. PRESS [PTT] OR [boost] , NO TX POWER AND ERROR BEEP SOUNDS. (TX INHIBIT). [mon] IS INEFFECTIVE. 5. KEY TOUCH TONE ON/OFF 1) PRESS AND HOLD [call] AND TURN POWER TO ON (PRESS AND HOLD [select/pwr]) → KEY TOUCH TONE OFF. 2) PRESS AND HOLD [select/pwr] → POWER OFF. 3) PRESS AND HOLD [call] AND TURN POWER TO ON (PRESS AND HOLD [select/pwr]) → KEY TOUCH TONE ON.														
REVIEWS:	REV. CODE	△	△	△	△	△	△	△	△	△	△	△	△	△
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UT8961H						2003/5/30				ONOHISA					
TITLE	TEST MODE			SUB TITLE	CONFIRMATION			REF DIAGRAM							
6.LCD DISPLAY IN THE TEST MODE  LCD DISPLAY SCREEN  : INDICATES THE CH NUMBER  : INDICATES THE CTCSS/VOL/VOX/CALL TONE NUMBER  : BATTERY LEVEL INDICATOR rx : RX ICON INDICATES THE RECEIVING SIGNAL (SQ OPEN) or MONITOR MODE ON (BLINKING) tx : TX ICON INDICATES THE TRANSMIT MODE vox : VOX ICON INDICATES THE VOX MODE ON vol : INDICATES THE VOLUME ADJUST MODE ON call : INDICATES THE CALL TONE OUTPUT MODE ON scan... : INDICATES THE SCAN MODE ON  : INDICATES THE KEY LOCK MODE ON  : INDICATES THE WX MODE alert : INDICATES THE WX ALERT MODE ON or WX ALERT DETECT MODE (BLINKING)  : GMRS/FRS INDICATOR															
REVISIONS:	REV. CODE	△	△	△	△	△	△	△	△	△	△	△	△	△	△
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