

ALIGNMENT PROCEDURE & SPECIFICATIONS

ALIGNMENT PROCEDURE FORM-8

DATE ISSUED FEB. 01 2001

UNIDEN No UH-052AL
BUYER'S MDL ASC 911A

APPRO	CHECK	ISSUE	WRITTEN

DOCUMENT No.

NO.OF PAGES 33 W/ COVER PAGE

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ISSUER'S STAMP

JIG REQUIREMENT

JIG NAME	JIG NO. (PRODUCTION ASSIGNED)	ADAPTER NUMBER
INTERFACE JIG (MODIFIED)	UH - 041Z - 4497 - 042Z	
LEVEL SHIFTER JIG	UA - 378	
CONNECT JIG	UH - 052ZP - 4582	

ALIGNMENT PROCEDURE		FORM-1	EQUIPMENT SETTING		PAGE	2
MODEL		UNIT		BLOCK	ISSUE DATE	ISSUED
UH-052AL		MAIN PCB			FEB. 01 2001	H.KAMBARA
TITLE	MAIN PCB INITIALIZE		SUB TITLE			
REQUIRED EQUIPMENT AND JIG						
NO.	JIG / EQUIPMENT NAME		JIG/EQUIP. MODEL NO.	QTY	REMARKS	
1	MAIN PCB INITIAL JIG			1		
2	PC			1	COM1	
3	LEVEL SHIFTER JIG		UA - 378	1	WITH AC ADAPTER	
4	INTERFACE JIG		UH - 041Z - 4497 - 042Z	1		
5	DC SUPPLY			1		
6	CABLE		WZ - 1176	1		
7	RS-232C CABLE			1		
8	CURRENT METER			1	MAX. 1.0A	
9	CONNECT JIG		UH - 052ZP - 4582	1		
JIG AND EQUIPMENT SETTING						
TOOLS / EQPT REQ'D FOR ADJUSTMENT						
EQUIPMENT / JIG CONNECTION DIAGRAM						
<pre> graph TD PCB1[PCB] --> PCB2[PCB] PCB2 --> C[JIG] C --> I[INTERFACE JIG] I --> PC[PC] I --> UA[UA-378] UA --> AA[AC ADAPTER] I --> CM[CURRENT METER] I --> DS[DC SUPPLY] DS --> CM DS --> I DS --> DC[DC 5.5V +/- 0.01V] </pre> Legend: ○ (RED) CURRENT ● (BLK) DC13.7V ○ (RED) ● (BLK) INTERFACE JIG (REAR PANEL)						

ALIGNMENT PROCEDURE FORM - 3				PAGE	3																								
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED																									
UH-052AL	MAIN PCB		FEB. 01 2001	H.KAMBARA																									
TITLE	MAIN PCB INITIALIZE	SUB TITLE		REF DIAGRAM																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">STEP</th> <th style="width: 30%;">CHECK POINT</th> <th style="width: 20%;">SPEC</th> <th style="width: 40%;">PROCEDURE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>CURRENT METER</td> <td>LESS THAN 0.05mA.</td> <td>CONNECT CLIPS TO BATTERY TERMINALS OF PCB. CHECK THE CURRENT.</td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> <td></td> <td>REMOVE CLIP FROM PCB AND CONNECT TO THE CONNECT JIG.</td> </tr> <tr> <td style="text-align: center;">2</td> <td>CURRENT METER</td> <td>MORE THAN 40mA LESS THAN 80mA</td> <td>CHECK THE CURRENT AFTER POWER ON BEEP.</td> </tr> <tr> <td style="text-align: center;">4</td> <td>SCREEN OF PC</td> <td>OK</td> <td>PCB CAN BE INITIALIZED CORRECTLY</td> </tr> <tr> <td></td> <td></td> <td>NG</td> <td>PCB CAN NOT BE INITIALIZED</td> </tr> </tbody> </table>						STEP	CHECK POINT	SPEC	PROCEDURE	1	CURRENT METER	LESS THAN 0.05mA.	CONNECT CLIPS TO BATTERY TERMINALS OF PCB. CHECK THE CURRENT.	2			REMOVE CLIP FROM PCB AND CONNECT TO THE CONNECT JIG.	2	CURRENT METER	MORE THAN 40mA LESS THAN 80mA	CHECK THE CURRENT AFTER POWER ON BEEP.	4	SCREEN OF PC	OK	PCB CAN BE INITIALIZED CORRECTLY			NG	PCB CAN NOT BE INITIALIZED
STEP	CHECK POINT	SPEC	PROCEDURE																										
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4	SCREEN OF PC	OK	PCB CAN BE INITIALIZED CORRECTLY																										
		NG	PCB CAN NOT BE INITIALIZED																										

ALIGNMENT PROCEDURE FORM-1		EQUIPMENT SETTING		PAGE 5
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UH-052AL	MAIN PCB		FEB. 01 2001	H.KAMBARA
TITLE	PRE-ADJUST	SUB TITLE		
REQUIRED EQUIPMENT AND JIG				
NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS
1	HP8920A		1	WITH OPT 003(103),004,005, 008,011,014,050
2	PC WITH GPIB INTERFACE		1	GPIB:HP82335B
3	LEVEL SHIFTER JIG	UA - 378Z	1	WITH AC ADAPTOR
4	INTERFACE JIG	UH - 041Z - 4497 - 042Z	1	
5	DC SUPPLY		1	
6	RS-232C CABLE		1	
7	GPIB CABLE		1	
8	CABLE	WZ - 1176	1	
9	RF CABLE		1	
10	CONNECT JIG	UH - 052ZP - 4582	1	
JIG AND EQUIPMENT SETTING				
TOOLS / EQPT REQ'D FOR ADJUSTMENT				
EQUIPMENT / JIG CONNECTION DIAGRAM				
<pre> graph TD AC[AC ADAPTER] --- LS[LEVEL SHIFTER UA-378Z] LS --- RS232C[RS-232C] --- PC[PC] LS --- WZ1176[WZ-1176] --- INTJ[INTERFACE JIG] PC --- GP-IB[GP-IB] --- HP8920A[HP8920A] HP8920A -- "TX EXT IN" --> INTJ HP8920A -- "RX OUT" --> INTJ HP8920A -- "Audio out" --> INTJ HP8920A -- "Audio in" --> INTJ INTJ --> CONJ[CONNECT JIG] CONJ --> PCB[PCB] DC[DC SUPPLY DC 5.5V] -- "CURRENT (+) (BLK)" --> INTJ DC -- "DC13.7V (-) (BLK)" --> INTJ HP8920A -- "RF out" --> RF[RF CABLE] RF --> ANT[ANT] </pre> ○ (RED) ○ (RED) CURRENT □ ○ DC13.7V ● (BLK) ● (BLK) INTERFACE JIG (REAR PANEL)				

ALIGNMENT PROCEDURE FORM - 3				PAGE 6
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UH-052AL	MAIN PCB		FEB. 01 2001	H.KAMBARA
TITLE	PRE-ADJUST	SUB TITLE		REF DIAGRAM

STEP	CHECK POINT	SPEC	PROCEDURE
1			RUN THE PRE-ADJUST PROGRAM OF PC
2	SCREEN OF PC	OK	PCB CAN BE PRE-ADJUSTED CORRECTLY
		NG	PCB CAN NOT BE PRE-ADJUSTED

ALIGNMENT PROCEDURE FORM-1		EQUIPMENT SETTING		PAGE 8	
MODEL		UNIT		BLOCK	
UH-052AL		MAIN PCB			
				ISSUE DATE	
				FEB. 01 2001	
				ISSUED	
				H.KAMBARA	
TITLE		PRE CHECK		SUB TITLE	
REQUIRED EQUIPMENT AND JIG					
NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS	
1	NJZ-900A WITH H/S		1		
2	DC SUPPLY		2		
3	INTERFACE JIG	UH - 041Z - 4497 - 042Z	1		
4	RF CABLE		1		
5	CONNECT JIG	UH - 052ZP - 4582	1		
6	CURRENT METER		1	MAX 1.0A	
7					
8					
9					
JIG AND EQUIPMENT SETTING					
TOOLS / EQPT REQ'D FOR ADJUSTMENT					
EQUIPMENT / JIG CONNECTION DIAGRAM					
<pre> graph TD DC138V[DC SUPPLY1 DC 13.8V] --- NJZ900A[NJZ-900A] NJZ900A -- RF CABLE --> PCB[PCB] PCB -- ANT --> CONNECTJIG[CONNECT JIG] CONNECTJIG --> INTERFACEJIG[INTERFACE JIG] INTERFACEJIG -- CURRENT BLK --> CURRENTMETER[CURRENT METER] INTERFACEJIG -- DC13.7V BLK --> DCS55V[DC SUPPLY DC 5.5V] CURRENTMETER -- (+) --> DCS55V DCS55V -- (-) --> INTERFACEJIG </pre> INTERFACE JIG (REAR PANEL) ○ (RED) ○ (RED) CURRENT DC13.7V ● (BLK) ● (BLK)					

ALIGNMENT PROCEDURE _{FORM - 3}				PAGE	9																																	
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED																																		
UH-052AL	MAIN PCB		FEB. 01 2001	H.KAMBARA																																		
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ALIGNMENT PROCEDURE FORM-1		EQUIPMENT SETTING		PAGE 11
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UH-052AL	MAIN UNIT		FEB. 01 2001	H.KAMBARA
TITLE	UNIT ADJUSTMENT	SUB TITLE		
REQUIRED EQUIPMENT AND JIG				
NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS
1	HP8920A		1	WITH OPT 003(103),004,005, 008,011,014,050
2	PC WITH GPIB INTERFACE		1	GPIB:HP82335B
3	LEVEL SHIFTER JIG	UA - 378Z	1	WITH AC ADAPTER
4	INTERFACE JIG	UH - 041Z - 4497 - 042Z	1	
5	DC SUPPLY		1	
6	RS-232C CABLE		1	
7	GPIB CABLE		1	
8	CABLE	WZ - 1176	1	
9	RF CABLE		1	
10	CONNECT JIG	UH - 052ZP - 4582	1	
11	SHIELD ROOM		1	(RECOMMENDED TO USE)
JIG AND EQUIPMENT SETTING				
TOOLS / EQPT REQ'D FOR ADJUSTMENT				
EQUIPMENT / JIG CONNECTION DIAGRAM				
<pre> graph TD AC[AC ADAPTER] --- UA[UA-378Z] UA --- RS[RS-232C] --- PC[PC] UA --- WZ[WZ-1176] --- HP[HP8920A] PC --- GP[GPIB] --- HP HP --- RF[RF out ANT] --- UNIT[UNIT] DC[DC SUPPLY] -- "(+) (BLK) DC 5.5V" --> INT[INTERFACE JIG] DC -- "(-) DC13.7V (BLK)" --> INT INT -- "TX EXT IN" --> HP INT -- "RX OUT" --> HP INT --> CON[CONNECT JIG] CON --> UNIT </pre> ○ (RED) ● (BLK) ○ (RED) ● (BLK) INTERFACE JIG (REAR PANEL)				

ALIGNMENT PROCEDURE _{FORM - 3}				PAGE 12																	
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED																	
UH-052AL	MAIN UNIT		FEB. 01 2001	H.KAMBARA																	
TITLE	UNIT ADJUSTMENT	SUB TITLE		REF DIAGRAM																	
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STEP	CHECK POINT	SPEC	PROCEDURE																		
1			RUN ADJUSTMENT SOFTWARE.																		
2	SCREEN OF PC	OK	PCB CAN BE ADJUSTED CORRECTLY																		
		NG	PCB CAN NOT BE ADJUSTED																		

ALIGNMENT PROCEDURE FORM-1		EQUIPMENT SETTING		PAGE 14
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UH-052AL	MAIN UNIT		FEB. 01 2001	H.KAMBARA
TITLE	FUNCTION CHECK	SUB TITLE		
REQUIRED EQUIPMENT AND JIG				
NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS
1	NJZ-900A WITH H/S		1	
2	DC SUPPLY		2	
3	INTERFACE JIG	UH - 041Z - 4497 - 042Z	1	
4	CONNECT JIG	UH - 052ZP - 4582	1	
5	CURRENT METER		1	MAX 1.0A
6	ANTENNA		1	for NJZ-900A
7	SPL METER		1	
8	SHIELD ROOM		1	(RECOMMENDED TO USE)
9				
JIG AND EQUIPMENT SETTING				
TOOLS / EQPT REQ'D FOR ADJUSTMENT				
EQUIPMENT / JIG CONNECTION DIAGRAM				

The diagram illustrates the connection setup for the equipment. At the top left, a box labeled 'DC SUPPLY1' is connected to a box labeled 'NJZ-900A'. Below 'NJZ-900A' is the text 'DC 13.8V'. An antenna symbol labeled 'ANT' is connected to the right side of 'NJZ-900A'. To the right of 'NJZ-900A' is a box labeled 'UNIT'. Below 'UNIT' is a box labeled 'CONNECT JIG'. Below 'CONNECT JIG' is a box labeled 'INTERFACE JIG'. Below 'INTERFACE JIG' is a box labeled 'CURRENT METER'. Below 'CURRENT METER' is a box labeled 'DC SUPPLY'. To the right of 'DC SUPPLY' is a box labeled 'SPL METER'. The 'DC SUPPLY' box is labeled 'DC 5.5V' below it. The 'CURRENT METER' box has two terminals labeled '(+)' and '(-)'. The 'INTERFACE JIG' box has two terminals labeled 'CURRENT (BLK)' and 'DC13.7V (BLK)'. A legend box at the bottom left is titled 'INTERFACE JIG (REAR PANEL)' and contains the following symbols: a circle with a dot labeled '(RED)', a circle with a horizontal line labeled '(RED)', a circle with a dot labeled '(BLK)', and a circle with a horizontal line labeled '(BLK)'. The text 'DC13.7V' is also present in the legend.

ALIGNMENT PROCEDURE FORM - 3				PAGE 15
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UH-052AL	MAIN UNIT		FEB. 01 2001	H.KAMBARA
TITLE	FUNCTION CHECK	SUB TITLE		REF DIAGRAM
STEP	CHECK POINT	SPEC	PROCEDURE	
1	PANIC SIREN CURRENT SPL	100 - 300mA 90dB SPL	PUSH LEFT AND RIGHT KEY FOR 1 SEC. CHECK THERE IS NO BUZZ SOUND. CHECK CURRENT. CHECK MAX. SOUND PRESSURE LEVEL AT DISTANCE OF 1m.	
2	NJZ-900A (INITIAL ONLY)		SET CH & MIN OF NJZ900A IN AUTO TEST MODE. PRESS NJZ900A "RESET" "CALL PROCESS" & "START". IDLE LED WILL FLASHING LCD DISPLAY SHOWS MIN No. " MIN=1234567890 "	
3	LED's	IN USE LED	PRESS 911 KEY OF PCB. INUSE LED WILL FLASH AND WILL BE STILL AFTER CONNECTED TO NJZ900A.	
	CONNECTION	CONNECTION OK	NJZ900A ORIGINATION LED WILL BE ON AND LCD DISPLAY SHOW FOLLOWS. "0123456789000000 SN=1A5FC897 " AND RING WILL COME APPEAR	
		CONNECTION NG	NJZ900A ORIGINATION WILL NOT BE ON, NOR BEEP COME APPEAR. PRESS "RESET" OF NJZ900A.	
4	NJZ-900A	TALK FUNCTION	PRESS SEND KEY OF NJZ900A H/S. CHECK TALK FUNCTIONS WHILE TALK MODE LED IS BLINKING	
5	CURRENT EAR SP OF UNIT VOLUME EAR SP OF NJZ-900A'S H/S	LESS THAN 700mA NO UNUSUAL NOISE VOLUME CHANGE NO UNUSUAL NOISE	CHECK CURRENT. CHECK EAR SPEAKER NOISE CHECK EAR SPEAKER VOLUME WILL BE CHANGE EVERY LEFT KEY PUSH. CHECK EAR SPEAKER NOISE	
6			PRESS 911 KEY MORE THAN 1 SEC. CHECK CONNECTION WILL BE RELEASE.	

ALIGNMENT PROCEDURE FORM-1		EQUIPMENT SETTING		PAGE 17
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UH-052AL	MAIN PCB		FEB. 01 2001	H.KAMBARA
TITLE	ESN WRITING	SUB TITLE		
REQUIRED EQUIPMENT AND JIG				
NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS
1	MAIN PCB INITIAL JIG		1	
2	PC		1	COM1
3	LEVEL SHIFTER JIG	UA - 378	1	WITH AC ADAPTER
4	INTERFACE JIG	UH - 041Z - 4497 - 042Z	1	
5	DC SUPPLY		1	
6	CABLE	WZ - 1176	1	
7	RS-232C CABLE		1	
8	CONNECT JIG	UH - 052ZP - 4582	1	
9				
JIG AND EQUIPMENT SETTING				
TOOLS / EQPT REQ'D FOR ADJUSTMENT				
EQUIPMENT / JIG CONNECTION DIAGRAM				
<pre> graph TD UNIT[UNIT] --- C[JIG] --- CONNECT[CONNECT JIG] C --- INTERFACE[INTERFACE JIG] PC[PC] --- RS232C[RS-232C] --- UA378[UA-378] UA378 --- AC[AC ADAPTER] DC[DC SUPPLY] --- DC55V[DC 5.5 V] DC --- CURRENT[CURRENT (BLK)] DC --- DC137V[DC13.7V (BLK)] CURRENT --- INTERFACE DC137V --- UA378 UA378 --- WZ1176[WZ-1176] --- INTERFACE </pre> DC 5.5 V ○ (RED) ○ (RED) CURRENT DC13.7V ● (BLK) ● (BLK) INTERFACE JIG (REAR PANEL)				

ALIGNMENT PROCEDURE FORM - 3				PAGE	18
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED	
UH-052AL	MAIN PCB		FEB. 01 2001	H.KAMBARA	
TITLE	ESN WRITING	SUB TITLE		REF DIAGRAM	

STEP	CHECK POINT	SPEC	PROCEDURE
1	SERIAL NO.		CHECK THE SERIAL NO. OF UNIT CKECK THE SERIAL NO. INDICATED ON THE PC MONITOR.
2	SCREEN OF PC	OK	ESN WILLBE WRITTEN CORRECTLY
		NG	ERROR MESSAGE WILL COME APPEAR.

ALIGNMENT PROCEDURE FORM - 3						PAGE 20		
MODEL		UNIT		BLOCK	ISSUE DATE		ISSUED	
UH-052AL		MAIN UNIT			FEB. 01 2001		H.KAMBARA	
TITLE	SPECIFICATIONS			SUB TITLE			REF DIAGRAM	
BUYER'S SPEC REFERENCE ONLY. (cf. SPECIFICATIONS SHEETS) STANDARD CONDITION (FOR LINE) VOLTAGE DC 5.50 +/- 0.02V TEMP. 25 DEGREE C +/- 5 CH. 993, 384, 797								
				FOR LINE		FOR BUYER'S		
No.	DESCRIPTION		UNIT	MIN.	MAX.	MIN.	MAX.	NOTE
1	TX FREQUENCY ERROR		ppm	-2.2	2.2	-2.5	2.5	-30 TO +60 DEG.C
2	TX POWER	PL2	dBm	23.8	29.3	23.8	29.8	-30 TO +60 DEG.C
		PL3	dBm	20.3	25.3	19.8	25.8	-30 TO +60 DEG.C
		PL4	dBm	16.3	21.3	15.8	21.8	-30 TO +60 DEG.C
		PL5	dBm	12.3	17.3	11.8	17.8	-30 TO +60 DEG.C
		PL6	dBm	8.3	13.3	7.8	13.8	-30 TO +60 DEG.C
		PL7	dBm	4.3	9.3	3.8	9.8	-30 TO +60 DEG.C
3	TX AUDIO	300Hz	dB	-15.5	-8.5	-15.5	-8.5	REFERENCE 1 kHz
	FREQ. RES	3kHz	dB	4.5	10.5	4.5	10.5	
4	TX MOD LIMITING		kHz	/	11.0	/	12.0	-30 TO +60 DEG.C
5	DATA DEVIATION		kHz	7.5	8.5	7.2	8.8	-30 TO +60 DEG.C
6	SAT DEVIATION	5970Hz	kHz	1.90	2.10	1.80	2.20	-30 TO +60 DEG.C
		6000Hz	kHz					
		6030Hz	kHz					
7	ST. DEVIATION		kHz	7.5	8.5	7.2	8.8	-30 TO +60 DEG.C
8	SAT FREQUENCY	5970Hz	Hz	5969	5971	5969	5971	
		6000Hz	Hz	5999	6001	5999	6001	
		6030Hz	Hz	6029	6031	6029	6031	
9	ST. FREQUENCY		kHz	9.999	10.001	9.999	10.001	
10	TX DISTORTIN & NOISE		dB	/	/	26.0	/	-30 TO +60 DEG.C

ALIGNMENT PROCEDURE FORM - 3						PAGE 21	
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED			
UH-052AL	MAIN UNIT		FEB. 01 2001	H.KAMBARA			
TITLE	SPECIFICATIONS	SUB TITLE		REF DIAGRAM			

UNIT				FOR LINE		FOR BUYER'S		NOTE
No.	DESCRIPTION	UNIT		MIN.	MAX.	MIN.	MAX.	
11	CARRIER ON STATE	dBm					-60.0	
12	CONDUCTED SPURIOUS EMISSION	dB					-40.7	
13	RX AUDIO FREQ	300Hz	dB	9.0	23.0	9.0	23.0	REFERENCE 1 kHz
	RESPONSE	3kHz	dB	-31.0	-17.0	-31.0	-17.0	
14	RX HUM & NOISE	dB					-32.0	
15	RX DISTORTION	%			4.0		5.0	
16	RX 12dB SINAD	dBm				-116.0		-20 TO +50 DEG.C
	(INPUT 8kHz DEV. 1kHz)					-113.0		-30 TO +60 DEG.C
17	RX SINAD @ -116dBm	dB	12.0					INPUT 8kHz DEV. 1kHz
18	I.M.D	dB				65.0		+/-60&120Hz
19	SPURIOUS INTERFERENCE	dB				60.0		
20	CONDUCTED SPURIOUS EMISSION	dBm					-47.0	
21	ADJACENT CHANNEL DESENSITIZATION	dB				16.0		
22	ALTERNATE CHANNEL DESENSITIZATION	dB				60.0		
23	STBY CURRENT	mA		0.1			0.1	DC 5.50V+/-0.1V
24	TALK CURRENT	mA		700			730	DC 5.50V+/-0.1V ch=383
25	SIREN SOUND LEVEL	dBspl				90		at 100cm, A Range