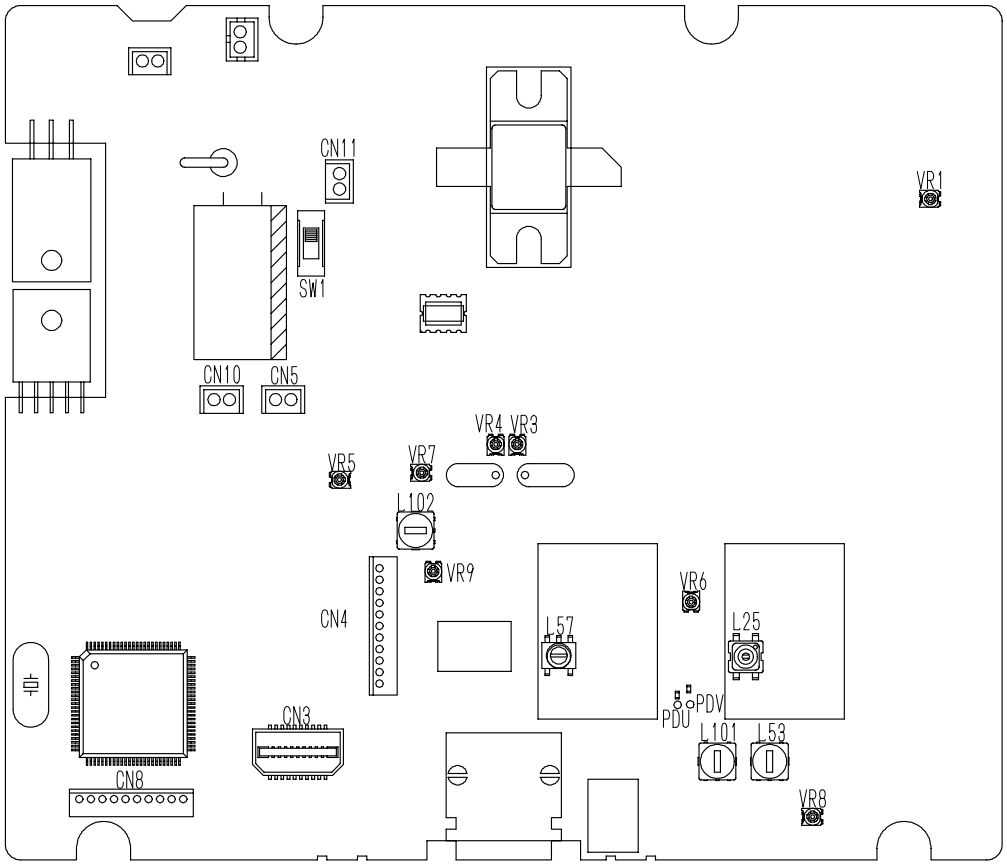
Adjustment Spot	JOB		PAGE
	MODEL	DR635	

Power Supply Voltage 13.8 V
Output of SSG is all EMF indication
If without instruction, SSG output is MOD 1KHz 3.5KHz/DEV.
Standard Modulation is also based above.
Speaker load is 8Ohm and Output is 50 – 100 mV.



Adjustment Mode

Memory CH	VHF Frequency (MHz)	VHF Frequency (MHz)	Contents	
CH1	146.000	440.000	PD Voltage	
CH2	146.000	440.000	Ref Frequency	
CH3	146.000	440.000	Hi Power	
CH4	146.000	440.000	Mid Power	
CH5	146.000	440.000	Low Power	
CH6	146.050	440.050	RX Distortion	
CH7	136.050	400.050	RX Sensitivity L	*1
CH8	146.050	440.050	RX Sensitivity M	*2
CH9	173.950	479.950	RX Sensitivity H	*3
CH10	146.050	440.050	S Meter 1	
CH11	146.050	440.050	S Meter FULL	
CH12	146.050	440.050	Squelch	
CH13	87.700		RX Distortion	
CH14	87.700		S Meter 1	
CH15	87.700		S Meter FULL	
CH16	146.000	440.000	TX Deviation	
CH17	146.000	440.000	TX Deviation NAR	
CH18	146.000	440.000	Mic Gain	
CH19	146.000	440.000	CTCSS 88.5Hz	
CH20	146.000	440.000	DCS 255	
CH21	146.000	440.000	Tone Burst 1750Hz	
CH22	145.050	435.050	aging	

After the above frequency is written in the memory,
it is set on the adjustment mode by the following operation.

FUNC –> TS/DCS (Key Lock)
BAND –> CALL –> MHz*2 –> TS/DCS –> H/L*2

Memory switching of VHF and UHF can be done with the BAND key.

Adjustment mode is canceled when a power switch is turned on with CALL key.

In RX Sensitivity adjustment (L, M and H), the following inequality must be realized.
CH7 (L) < CH8 (M) < CH9 (H) [Example CH7=5A CH8=60 CH9=E0]

VHF and Freq Adjustment Specification (1)

ITEM	CH No	CONDITION	UNIT	ADJ.SPOT	ADJUSTING METHOD
VCO Adjustment	CH1	146.00MHz RX	MAIN	L25	Adjust so that PDV voltage becomes 2.7V
Adjustment Frequency	CH2 (UHF)	440.00MHz TX	MAIN	VR6	Adjust so that Tx Frequency becomes within 146.00MHz +/– 100Hz
HI POWER Adjustment	CH3	146.00MHz HI POWER	FRONT	RE601	Adjust to 50.0 +/– 1.0W
MID POWER Adjustment	CH4	146.00MHz MID POWER	FRONT	RE601	Adjust to 20.0 +/– 1.0W
LOW POWER Adjustment	CH5	146.00MHz LOW POWER	FRONT	RE601	Adjust to 5.0 +/– 0.5W
RX Distortion Adjustment	CH6	146.05MHz SSG 60dBu	MAIN	L101	It is adjusted to become maximum volume when a position of Volume is done at 11 o'clock. Confirm : Less than 3%
Rx Signal Sensitivity Adjustment	CH7	136.05MHz	FRONT	FUNC –> RE601 –> FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –7dBu SINAD more than 12dB
Rx Signal Sensitivity Adjustment	CH8	146.05MHz	FRONT	FUNC –> RE601 –> FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –7dBu SINAD more than 12dB
Rx Signal Sensitivity Adjustment	CH9	173.95MHz	FRONT	FUNC –> RE601 –> FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At +6dBu SINAD more than 12dB
S Meter(1) Adjustment	CH10	146.05MHz SSG –3dBu	FRONT	FUNC	It is confirmed by the FUNC key.
S Meter(FULL) Adjustment	CH11	146.05MHz SSG 15dBu	FRONT	FUNC	It is confirmed by the FUNC key.
Squelch Adjustment	CH12	146.05MHz SSG OFF Indication 01	MAIN	VR8	Adjust so that the squelch stops at perfectly close location
RX Distortion Adjustment	CH13	87.5MHz SG 60dBu 1KHz 22KHz/DEV WFM	MAIN	L53	It is adjusted to become maximum volume when a position of Volume is done at 11 o'clock. Confirm : Less than 3% SG OUT 20 – 80dBu : Less than 5%

VHF Adjustment Specification (2)

ITEM	CH No	CONDITION	UNIT	ADJ.SPOT	ADJUSTING METHOD
S Meter (1) Adjustment	CH14	87.7MHz SSG 5dBu 1KHz 22KHz/DEV WFM	FRONT	FUNC	It is confirmed by the FUNC key.
S Meter (FULL) Adjustment	CH15	87.7MHz SSG 20dBu 1KHz 22KHz/DEV WFM	FRONT	FUNC	It is confirmed by the FUNC key.
Maximum Deviation Adjustment	CH16	146.00MHz MOD 1KHz 40mVemf	MAIN	VR3	4.5 +/– 0.1KHz/DEV
Maximum Deviation Confirmation	CH17	146.00MHz MOD 1KHz 40mVemf NARROW			2.2 +/– 0.3KHz/DEV
Mic Gain Adjustment	CH18	146.00MHz MOD 1KHz 4mVemf	MAIN	VR5	2.85 +/– 0.1KHz/DEV
CTCSS Modulation Level Confirmation	CH19	146.00MHz 88.5Hz			800 +/– 400Hz/DEV 3KHz LPF ON
DCS Modulation Level Adjustment	CH20	146.00MHz 255 Code	MAIN	VR7	800 +/– 50Hz/DEV 3KHz LPF ON
1750Hz Modulation Level Confirmation	CH21	146.00MHz 1750Hz			3.0 +/– 0.5KHz/DEV

UHF Adjustment Specification (1)

ITEM	CH No	CONDITION	UNIT	ADJ.SPOT	ADJUSTING METHOD
VCO Adjustment	CH1	440.00MHz RX	MAIN	L57	Adjust so that PDU voltage becomes 3.4V
HI POWER Adjustment	CH3	440.00MHz HI POWER	FRONT	RE601	Adjust to 35.0 +/– 1.0W
MID POWER Adjustment	CH4	440.00MHz MID POWER	FRONT	RE601	Adjust to 20.0 +/– 1.0W
LOW POWER Adjustment	CH5	440.00MHz LOW POWER	FRONT	RE601	Adjust to 5.0 +/– 0.5W
RX Distortion Adjustment	CH6	440.05MHz SSG 60dBu	MAIN	L102	It is adjusted to become maximum volume when a position of Volume is done at 11 o'clock. Confirm : Less than 3%
Rx Signal Sensitivity Adjustment	CH7	400.05MHz	FRONT	FUNC –> RE601 –> FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –8dBu SINAD more than 12dB
Rx Signal Sensitivity Adjustment	CH8	440.05MHz	FRONT	FUNC –> RE601 –> FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At –7dBu SINAD more than 12dB
Rx Signal Sensitivity Adjustment	CH9	479.95MHz	FRONT	FUNC –> RE601 –> FUNC	Adjust so that the Rx sensitivity becomes in maximum. Confirm: At +6dBu SINAD more than 12dB
S Meter (1) Adjustment	CH10	440.05MHz SSG -3dBu	FRONT	FUNC	It is confirmed by the FUNC key.
S Meter (FULL) Adjustment	CH11	440.05MHz SSG 15dBu	FRONT	FUNC	It is confirmed by the FUNC key.
Squelch Adjustment	CH12	440.05MHz SSG OFF Indication 01	MAIN	VR9	Adjust so that the squelch stops at perfectly close location

UHF Adjustment Specification (2)

ITEM	CH No	CONDITION	UNIT	ADJ.SPOT	ADJUSTING METHOD
Maximum Deviation Adjustment	CH16	440.00MHz MOD 1KHz 40mVemf	MAIN	VR4	4.5 +/– 0.1KHz/DEV
Maximum Deviation Confirmation	CH17	440.00MHz MOD 1KHz 40mVemf NARROW			2.2 +/– 0.3KHz/DEV
Mic Gain Confirmation	CH18	440.00MHz MOD 1KHz 4mVemf			3.0 +/– 0.5KHz/DEV
CTCSS Modulation Level Confirmation	CH19	440.00MHz 88.5Hz			800 +/– 400Hz/DEV 3KHz LPF ON
DCS Modulation Level Confirmation	CH20	440.00MHz 255 Code			800 +/– 400Hz/DEV 3KHz LPF ON
1750Hz Modulation Level Confirmation	CH21	440.00MHz 1750Hz			3.0 +/– 0.5KHz/DEV