

# Sommerkamp TS-789DX

(also known as *SPACESTAR* or *REVOLUTION*)

**FM/AM/SSB (CB / 10m)**

## Adjustment procedure

### Test equipment required:

Power Supply: 13,8 V	Frequency Counter	Dummy Load 50 ohm	Oscilloscope
RF Power Meter	DC Amperemeter	RF SSG	AF SSG

### Preparation alignment:

Fine	Mid.
Clarifier	Mid.
SQ GAIN	Max.
AF GAIN	Max.
RF GAIN	Max.
MIC GAIN	Max.
NB/ANL	Off
MID Band, Ch. 19	Frequency: 27.185MHz

Reading Point	Condition	Adjustment	Procedure
<b>PLL</b>			
IC8 #4	RX AM	L21	10.2400MHz
IC8 #4	RX USB	L22	10.2425MHz
IC8 #4	RX LSB	L23	10.2375MHz
D32	TX AM	L27	10.6950MHz
D32	TX USB	L28	10.6975MHz
D32	TX LSB	L29	10.6925MHz
R130	RX AM	L17	VCO Coil: 2,5 Volt @ 27.185MHz

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<b>RECEIVER</b>			
<b>LF Output</b>	<b>RX FM</b>	<b>L6</b>	<b>Discriminator Coil</b>
<b>TRANSMITTER</b>			
<b>TP3 (+) TP1 (-)</b>	<b>TX USB</b>	<b>VR9 (TR48 Bias)</b>	<b>50mA</b>
<b>TP3 (+) TP1 (-)</b>	<b>TX USB</b>	<b>VR10 (TR49 Bias)</b>	<b>50mA</b>
<b>TP3 (+) TP2 (-)</b>	<b>TX USB</b>	<b>VR11 (TR50 Bias)</b>	<b>10mA</b>
<b>TP1</b>	<b>TX SSB</b>	<b>VR7</b>	<b>Modulator Balance</b>
<b>Power Meter</b>	<b>TX AM</b>	<b>VR13</b>	<b>30 Watt AM Power</b>
<b>Deviation Meter</b>	<b>TX FM</b>	<b>VR6</b>	<b>+/- 2kHz FM Deviation</b>
<b>METER</b>			
<b>RF Power Meter</b>	<b>TX AM</b>	<b>VR8</b>	<b>"30 Watt"</b>
<b>SWR Meter</b>	<b>TX AM</b>	<b>VR5</b>	

## Microphone Connection

<b>Pin</b>	<b>Description</b>
<b>1</b>	<b>Ground</b>
<b>2</b>	<b>Microphone</b>
<b>3</b>	<b>TX</b>
<b>4</b>	<b>RX</b>
<b>5</b>	<b>Program UP</b>
<b>6</b>	<b>Program DOWN</b>