

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

Microphone Connection

| Pin | Description |
|-----|--------------|
| 1 | Ground |
| 2 | Microphone |
| 3 | TX |
| 4 | RX |
| 5 | Program UP |
| 6 | Program DOWN |