This alignment procedure has been re-written for the "Experienced Tech."

**PIL Section:** Clarifier centered

1. Ch 40; AM, RX - TP2; adjust L13 for 4.5VDC.
2. Ch 1 - check for more than 2VDC.
3. Ch 19; USB, RX - TP3; adjust L14 for max.
4. Ch 19; USB, RX - TP3; adjust L16 for 16.4925MHz, ±20Hz.
5. Ch 19; AM, RX - TP3; adjust L15 for 16.4900MHz, ±20Hz.
6. Ch 19; LSB, RX - TP3; adjust L17 for 16.4875MHz, ±20Hz.
7. Ch 19; LSB, TX - TP3; adjust VR3 for 16.4875MHz, ±20Hz.
8. Ch 19, USB, RX - TP5; adjust L20 for 10.6925, ±20Hz.
9. Ch 19; USB, RX - TP5; adjust L19 for 10.6975MHz, ±20Hz.
10. Ch 19; AM, TX (Disconnect "small PCB short board" between TP6, TP7, and TP8.)
- TP9; adjust L18 for 10.6950MHz, ±20Hz.

**TRANSMIT Section:**

1. Ch 19; USB, TX (Disconnect "small PCB short board" between TP6, TP7, and TP8.)
   A. Connect ammeter between TP7 and TP8; adjust VR9 for 40ma.
   B. Connect ammeter between TP6 and TP8; adjust VR8 for 30ma.
   C. Reconnect small "PCB short board".
2. Ch 19; USB, TX (VR6 fully CW; 2-tone modulation).
   A. Adjust L37, L36, L35, L34, and L26 for max RF output
   B. Balance out Ch 1-40, using L34, L35, and L36.
3. Ch 19; AM, TX (with 1K modulation):
   A. Adjust L26 for max RF.
   B. Adjust VR5 for 95-98% TX Modulation.
4. Ch 19; (USB and LSB), TX - Adjust VR4 for minimum carrier leakage on both sidebands.
TRANSMIT Section:

5. Ch 19; USB, TX (2-tone modulation):
   A. Adjust VR6 for 12W RF output
   B. Adjust VR7 for 3 lights lit on meter.

6. Ch 19; AM, TX - Adjust VR10 for 4W RF output.

RECEIVER Section:

1. Ch 19, AM, RF Gain-CW, Vol-CW, Sq-CCW, NB/ANL-Off; (2V, 1kHz 30% modulated input to unit).
      Balance out across Fo range with L3 if needed.

2. Sq-CW, Sig Gen to 1000mV; Adjust VR2 for audio signal to appear.

3. Sq-CCW, Sig Gen to 100mV; Adjust VR1 for S9 on meter.

4. Step 1 settings (NB/ANL to ON): Scope TP1 and adjust L2 for max.

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TRC-453/Uniden FC-122 Alignment Points

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