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CUSTOM MODIFICATION

INST 1L20 MOD 139A

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PART	6	-1 1	(1	
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BRIEF DESCRIPTION: Band B (scales 2-5) deleted.

Qty.	Part Number	Status	Description	
1	034-0134-00	E.C.	Front panel ,film 3452, tooling 030-0468-02	
1	119-0084-06		Oscillator	
1	308-0395-00		Resistor, 300 ohm 10W WW	
1	331-0171-00		Dial tape	
REBATC	Н:			
1	103-0057-00		Adapter, assy	
1	103-0058-00		Adapter, assy	
1	119-0063-00		Oscillator	
1	119-0064-00		Crystal mixer	
1	119-0066-00		Pad attenuator	
]	175-0308-00		Cable assy 2"	
1	175-0312-00		Cable assy 9"	
1	175-0313-00		Cable, assy 3"	
1	175-0358-00		Cable assy 1 9/16"	
1	179-1047-00		Cable assy	
1	262-0761-00		Switch, Band assy	
1	331-0166-00		Dial tape	
1	333-0924-00		Front panel	
1	366-0351-00		Knob, charcoal	

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PARTS LIST

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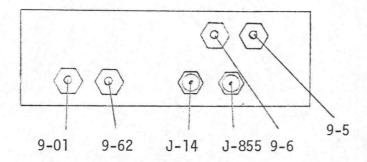
CUSTOM MODIFICATION

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BUILD PROCEDURE:

- 1. Remove the band switch and the 9-2 and 9-4 wires with the switch.
- 2. Remove the mixer peaking pot.
- 3. Remove the mixer assembly and coax cables.
- 4. Install the shortest coax cable assembly between J-80 and J-34.
- 5. Remove the oscillator and then remove the dial assembly from the oscillator and J-855.
- 6. Remove the oscillator and then remove the dial assembly and tape from the oscillator.
- 7. Install the dial assembly and the new tape on the new oscillator.
- 8. Install the oscillator and wire as follows:

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- 9. Replace R49, a 267 ohm 10W resistor with a 300 ohm 10W resistor.
- 10. Install the new front panel and mod slot.

CUSTOM MODIFICATION

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This procedure is in reference to the 1L20 manual.

Recommended Equipment (p6,-1) - The Calibrated Frequency RF Generator (item 4) needs only a frequency range of 10MHz to 400MHz.

Calibration Record and Index (p. 6-1) - In Step 2, delete the 10MHz/CM check; In step 6, delete the 10MHz/CM check. In step 13, delete the checks for Bands 2 through 5.

- 2. Adjust Dispersion Accuracy (p.6-6) In step a-3, connect the Harmonic Modulator to the RF INPUT connector. In step e, adjust C358 for 1 marker/2 centimeters over the middle eight centimeters of the display. Remove the 10MHz check in Table 6-1.
- 4. Adjust Resolution (p.6-8) In step a, connect the Time-Mark Generator to the RF INPUT connector.
- 5. Adjust Center Frequency of Swept Frequency Oscillator (p.6-10) In step a, connect the Time-Mark Generator to the RF INPUT connector.
- 6. Check Range of IF CENTER FREQ Controls (p.6-10) In step b, connect the Time-Mark Generator to the RF INPUT connector. Delete steps e and f.
- 8. Check RF CENTER FREQ Calibration and Phase Lock Display (p.6-12) In step a, connect the Signal Generator to the RF INPUT connector. Delete steps d through f.
- 9. Adjust Narrow-Band IF Amplifier Peaking (p.6-13) In step a, connect the Time-Mark Generator to the RF INPUT connector.
- 10. Adjust Wide-Band Amplifier Circuit (p.6-15) In step b, connect the Sweep Generator to the RF INPUT connector. In step d, set the Sweep Generator so that it sweeps from $\underline{175}$ MHz to $\underline{225}$ MHz. In step g, adjust L134 and C137 for the best flatness between $\underline{175}$ MHz and $\underline{225}$ MHz.
- 11. Check Lowpass and Bandpass Filters (p.6-14) Delete steps b and c.
- 12. Adjust RF Mixers (p.6-15) Delete steps d through g.
- 13. Check Sensitivity and RF Frequency Range (p.6-16) In step a, connect the Signal Generator to the RF INPUT connector. In step g, check for 80 dBm or less. In Table 6-2, perform only the Band 1 checks.
- 14. Adjust and Check dynamic Ranges (p.6-17) In step a, connect the Signal Generator to the RF INPUT connector.
- 15. Check Display Flatness (p.6-17) In step a, connect the Signal Generator to the RF INPUT connector. Delete steps i through p.

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CALIBRATION PROCEDURE

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CUSTOM MODIFICATION

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(CONTINUED)

- 16. Check IF Attenuator Accuracy (p.6-18) In step a, connect the Signal Generator to the RF INPUT connector.
- 17. Check TO RECORDER Output (p.6-19) In step a, connect the 1 MHz CAL MARKERS OUT signal to the RF INPUT connector.
- 19. Check Frequency Response of VIDEO INPUT Circuit (p.6-20) In step a, connect the Test Oscilloscope to the RF INPUT connector.
- 20. Check Incidental Frequency Modulation (p.6-21) in step a, connect the Time-Mark Generator to the RF INPUT connector.

Dial Tracking Procedure (p.6-22) - Delete steps 6 and 7.

Bands 2-5 Local Oscillator Calibration procedure (p.6-23) - Delete

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CALIBRATION PROCEDURE