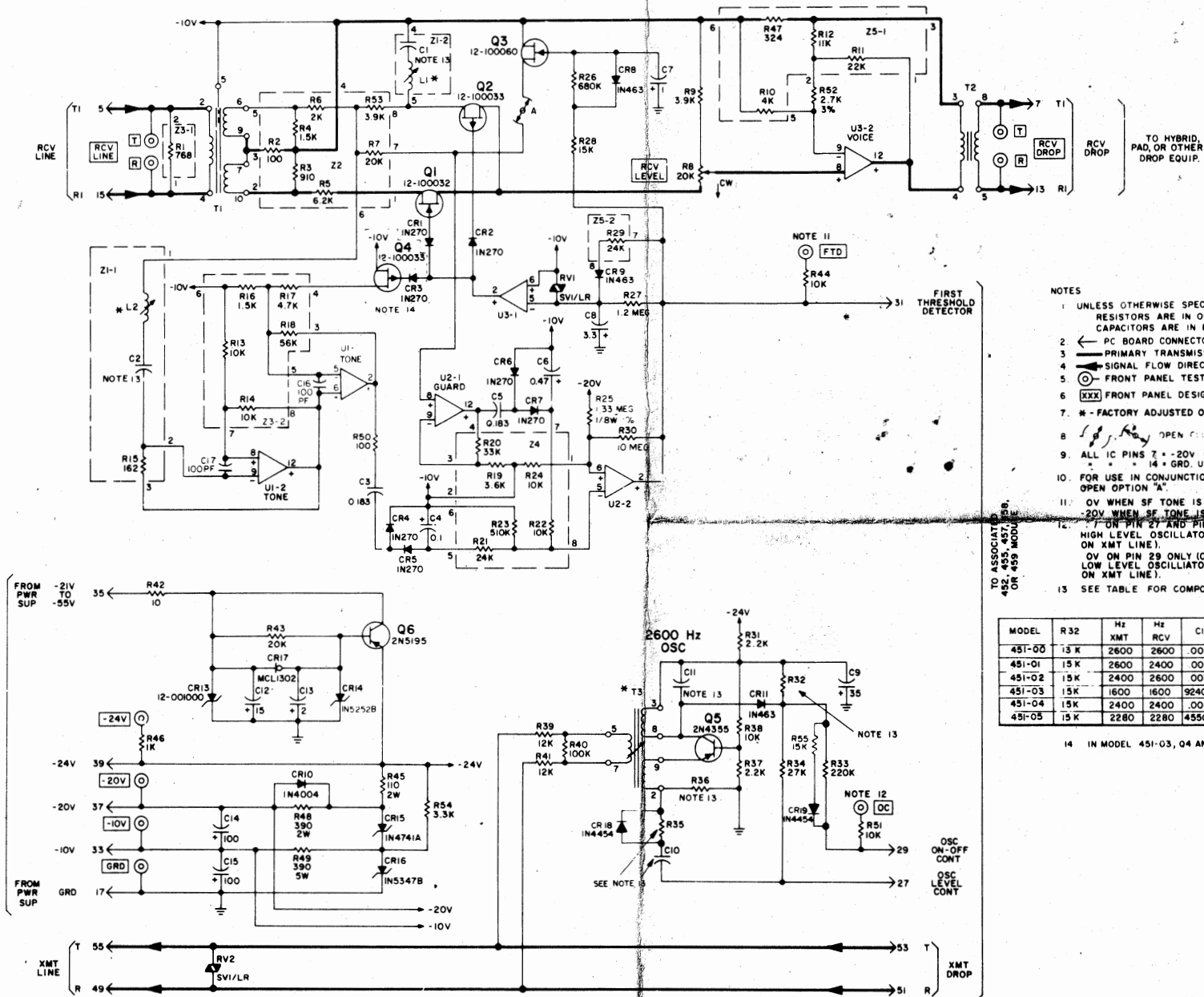


TO ASSOCIATED
452, 453, 457, 458,
OR 459 MODULE



- NOTES
1. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE IN OHMS, 1/4WATT, 5%. CAPACITORS ARE IN MICROFARADS.
 2. PC BOARD CONNECTOR.
 3. PRIMARY TRANSMISSION PATH.
 4. SIGNAL FLOW DIRECTION.
 5. FRONT PANEL TEST POINT.
 6. FRONT PANEL DESIGNATION.
 7. * - FACTORY ADJUSTED OR SELECTED.
 8. OPEN CIRCLES USED SCREW OPTIONS.
 9. ALL IC PINS 7 = -20V U3, U2 & U1. * = 14 = GRD. U3, U1 & U2.
 10. FOR USE IN CONJUNCTION WITH 457, OPEN OPTION "A".
 11. OV WHEN SF TONE IS DETECTED; -20V WHEN SF TONE IS NOT DETECTED.
 12. ON PIN 27 AND PIN 29 (OC) PRODUCES HIGH LEVEL OSCILLATOR OUTPUT (-24 DBM ON XMT LINE). OV ON PIN 29 ONLY (OC JACK) PRODUCES LOW LEVEL OSCILLATOR OUTPUT (-36 DBM ON XMT LINE).
 13. SEE TABLE FOR COMPONENT VALUE.

MODEL	R32	H _z XMT	H _z RCV	C1	C2	C11	R36	R35	C10
451-00	15 K	2600	2600	.0035	.0035	.015	2K	348K	.008
451-01	15 K	2600	2400	.0041	.0041	.015	2K	348K	.008
451-02	15 K	2400	2600	.0035	.0035	.015	2K	316K	.008
451-03	15 K	1600	1600	.9240 PF	.9240 PF	.039	1.6K	2.0K	.008
451-04	15 K	2400	2400	.0041	.0041	.015	2K	316K	.008
451-05	15 K	2280	2280	.4550 PF	.4550 PF	.016	2K	316K	.008

14. IN MODEL 451-03, Q4 AND CR3 ARE DELETED

Model 451-00/05 Common F Signaling Schematic Diagram (Iss 3)