

TTD1731A TRANSMIT VCO

SCHEMATIC DIAGRAM, CIRCUIT BOARD DETAIL, AND PARTS LISTS

parts list

TTD6231A Transmit VCO Board

PL-11604-O

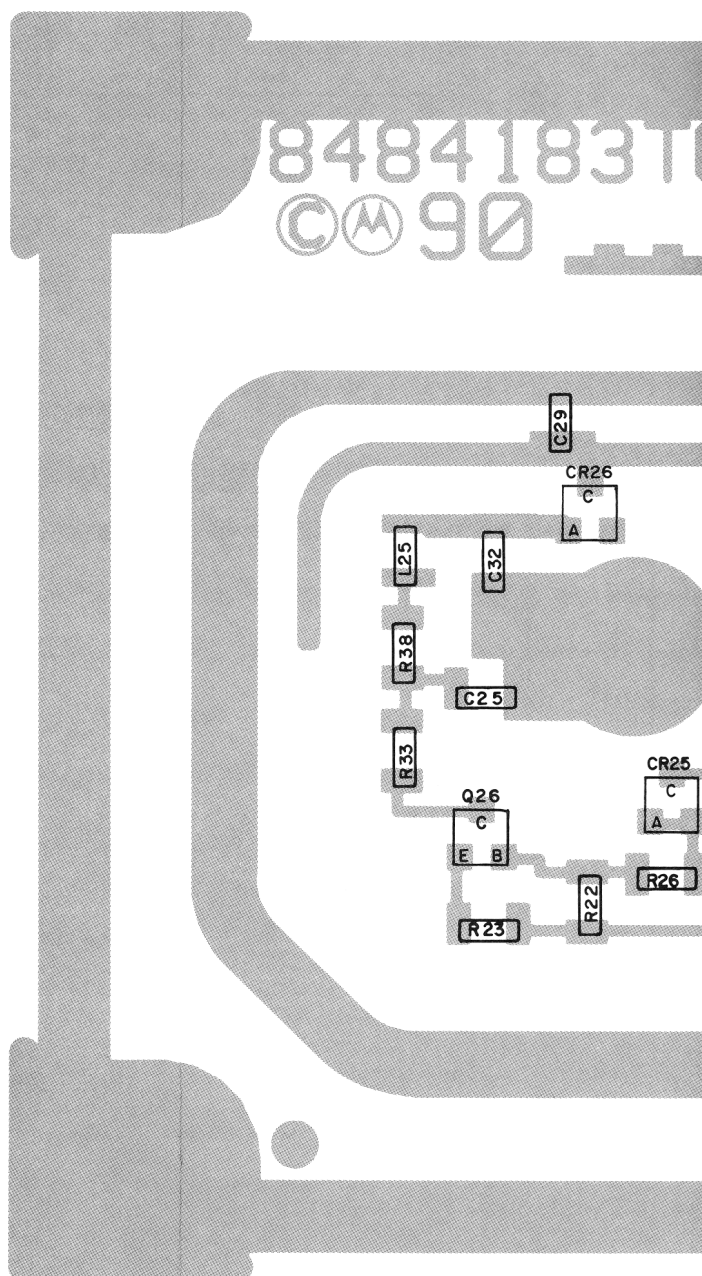
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
capacitor, fixed: $\mu\text{F} \pm 5\%$ 50V: unless otherwise stated		
C25 thru 28	2113741B21	.001 μF
C29	2111078B24	25; 100V
C30,31	2113740B09	2.2 $\pm 0.25\text{pF}$
C32	2111078B24	25; 100V
C33	2113740B05	1.5 $\pm 0.25\text{pF}$
C34	2111078B32	39; 100V
C35	2111078B21	20; 100V
C36	2111078B20	18; 100V
C37	2113740B73	.001 μF
C38	2111078B22	22; 100V
C39	2113741B21	.001 μF
C40	2113740B73	.001 μF
C41	2113741B21	.001 μF
C42	2113740B07	1.8 $\pm 0.25\text{pF}$
C43	2113741B21	.001 μF
C44	2113740B32	20
diode (see note):		
CR25	4811058A11	silicon
CR26	4884622E02	silicon
CR27	4882190H51	silicon
CR28,29	4805129M88	type MMBV609L
CR30	4882106T01	type Schottky
coil:		
L25 thru 28	2480140E02	1.8 μH
L29	2480140E15	.275 μH
L30	2480140E02	1.8 μH
L31	2480140E011	.2 μH
L32	2411087A14	0.1 μH
connector:		
P324B	24B0983729M01	receptacle; 7-contact
transistor (see note):		
Q25	4811056A03	NPN
Q26	4811056A08	PNP
Q27 thru 29	4811056A03	NPN
Q30	4884939C30	type FJET
Q31	4884939C32	NPN
resistor, fixed: $\pm 5\%$; 1/8 W unless otherwise stated		
R22	0611077A74	1000
R23	0611077A50	100
R24	0611077A98	10K
R25	0611077A98	10K
R26	0611077A74	1000
R27	0611077A98	10K
R28	0611077A50	100
R29	0611077B13	39K
R30	0611077B01	12K
R31	0611077A98	10K
R32	0611077A71	750
R33	0611077A43	51
R34	0611077A80	1800
R35	0611077A52	120
R36	0611077A89	4300
R37	0611077A50	100
R38	0611077A43	51
R39	0611077A98	10K
R40	0611077A61	300
R41	0611077A50	100
R42	0611077B06	20K
R43	0611077A40	39
R44	0611077A26	10
R45	0611077B06	20K
R46	0611077A62	330
R48	0611077A67	510
R49	0611077A74	1000
R50	0611077A54	150
thermistor (see note)		
RT26	0680149M01	470 ohms

note: For optimum performance, diodes, transistors, and integrated circuits must be ordered by Motorola part numbers.

TLD9400A VCO Hardware

PL-11282-B

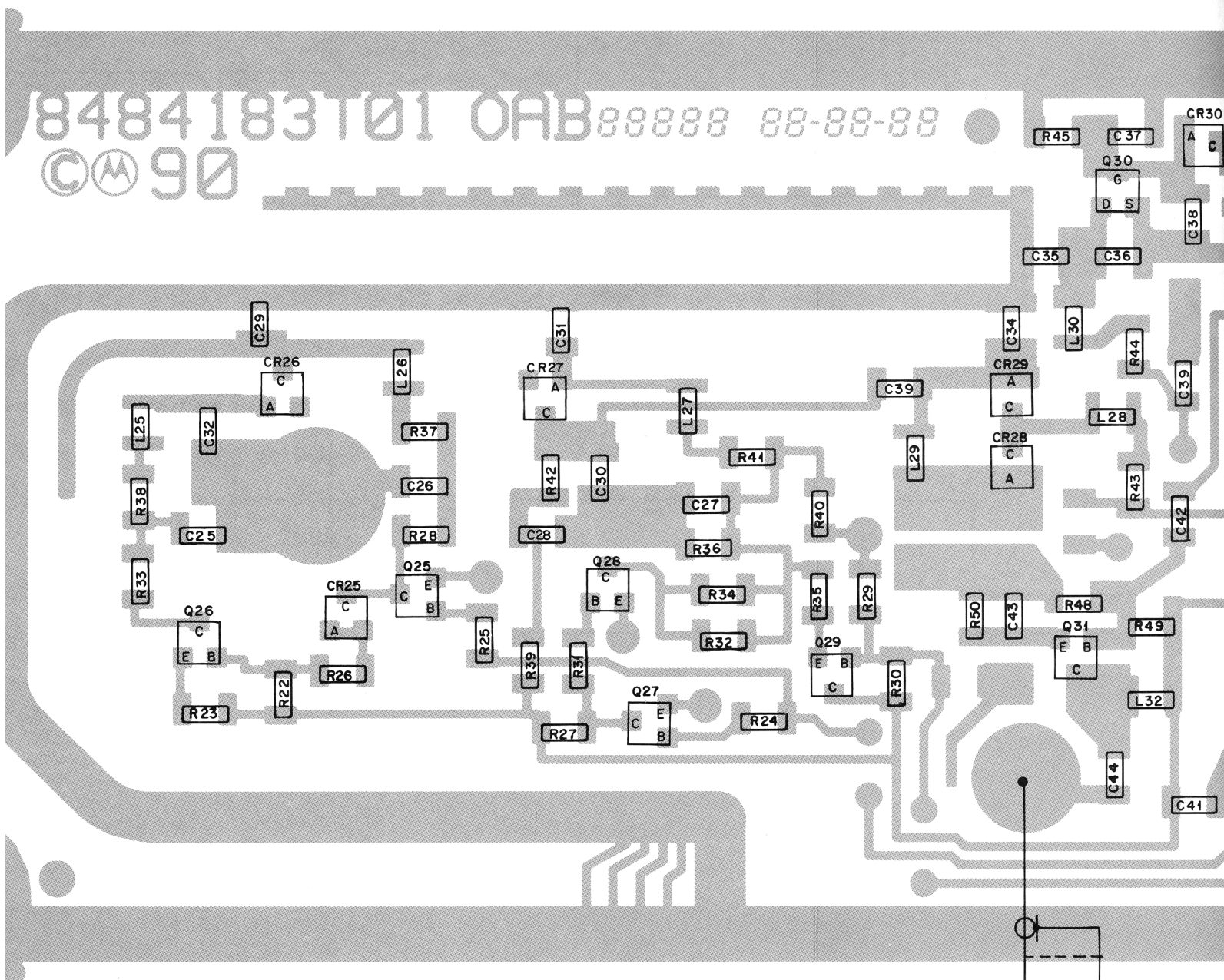
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
non-referenced items		
	0310943M17	SCREW, tapping: TT3.5 $\times$ 0.6 $\times$ 13; 7 used
	1582800T01	HOUSING, high band
	1582801T01	COVER, VCO high band
	0984135B02	CONNECTOR, phono (J263 Rx, J323 Tx)
	6484021T01	PLATE, feedthru
	9184012M02	FILTER, feedthru: 1500 pF; 4 used
	9184012M03	FILTER, feedthru: 2000 pF



SHOWN FROM COMPONENT SIDE

PL-11282-B

ROLA NO.	DESCRIPTION
non-referenced items	
M17	SCREW, tapping: TT3.5 x 0.6 x 13; 7 used
R01	HOUSING, high band
R01	COVER, VCO high band
302	CONNECTOR, phono (J263 Rx, J323 Tx)
R01	PLATE, feedthru
M02	FILTER, feedthru: 1500 pF; 4 used
M03	FILTER, feedthru: 2000 pF



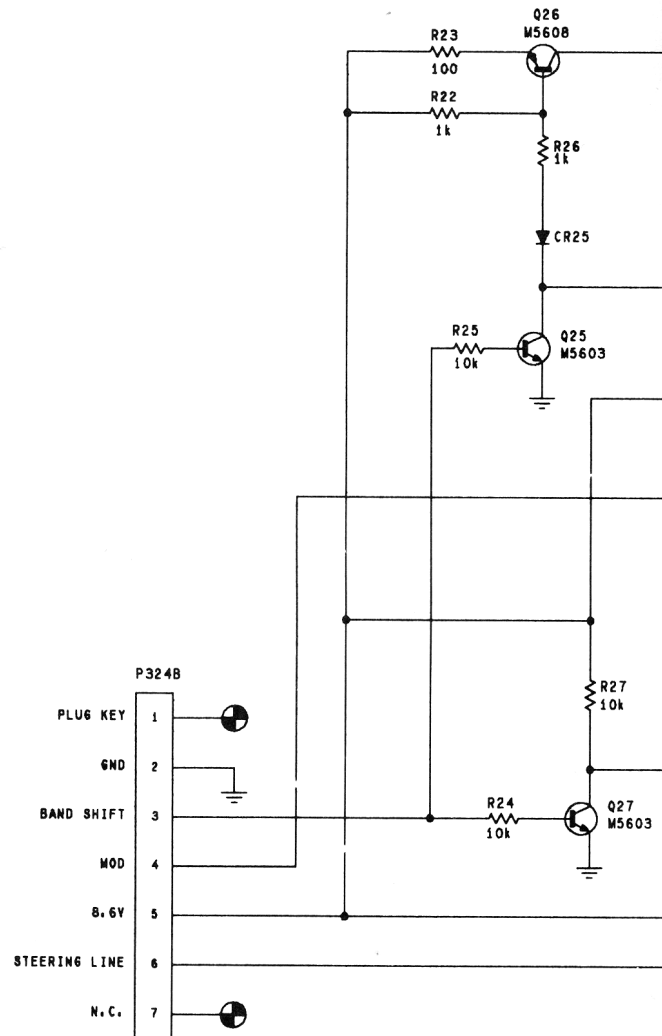
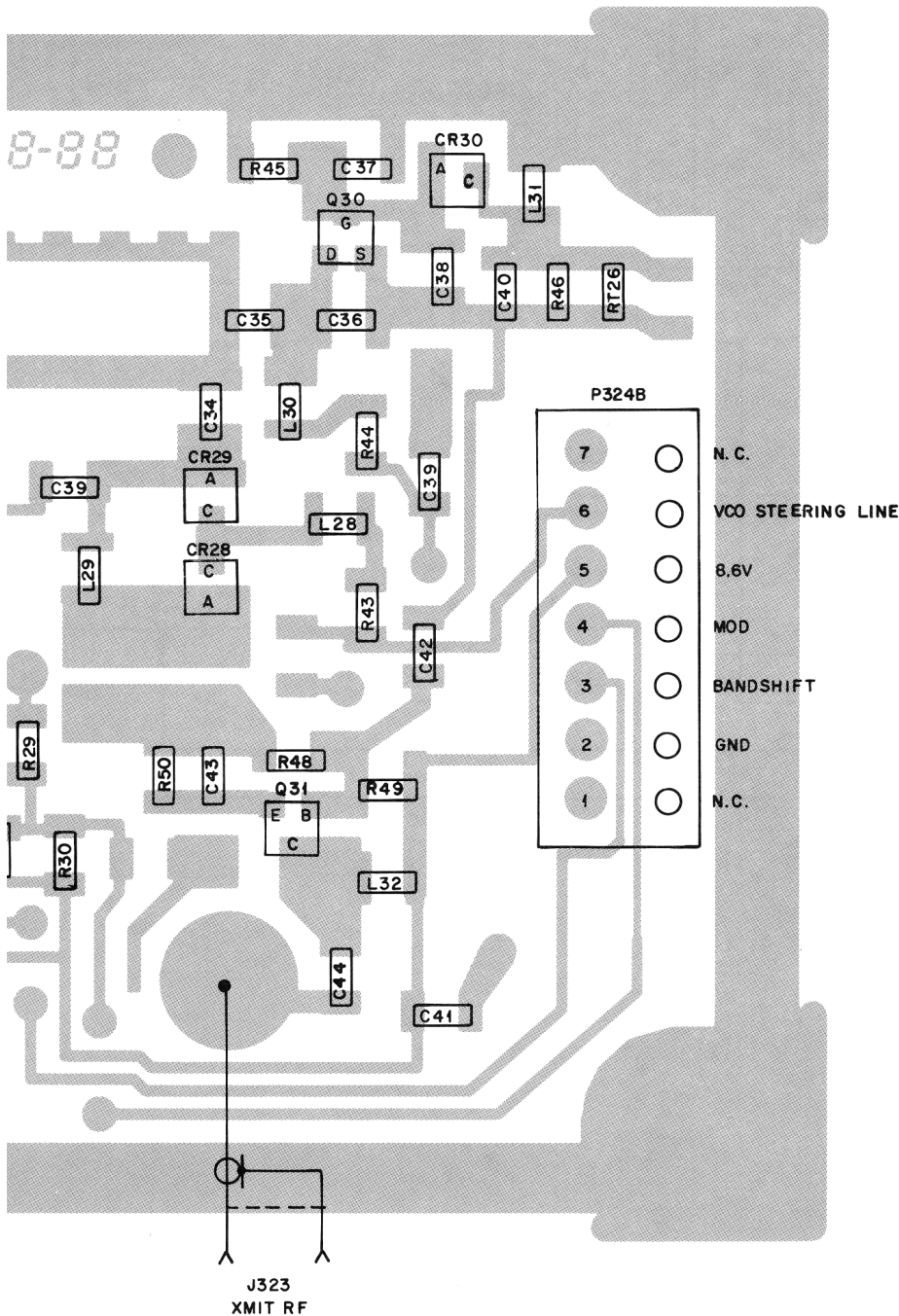
FROM COMPONENT SIDE

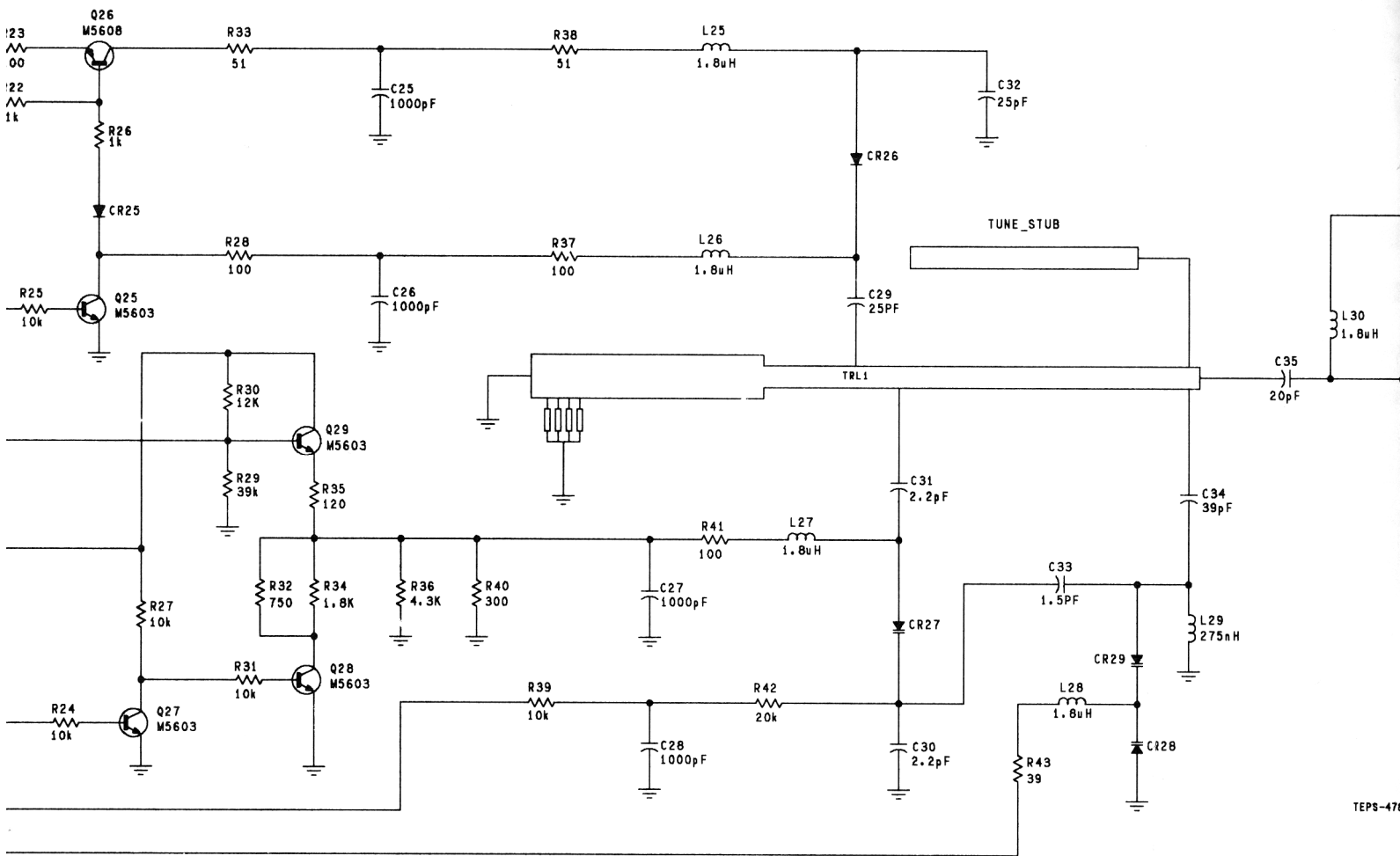
COMPONENT SIDE

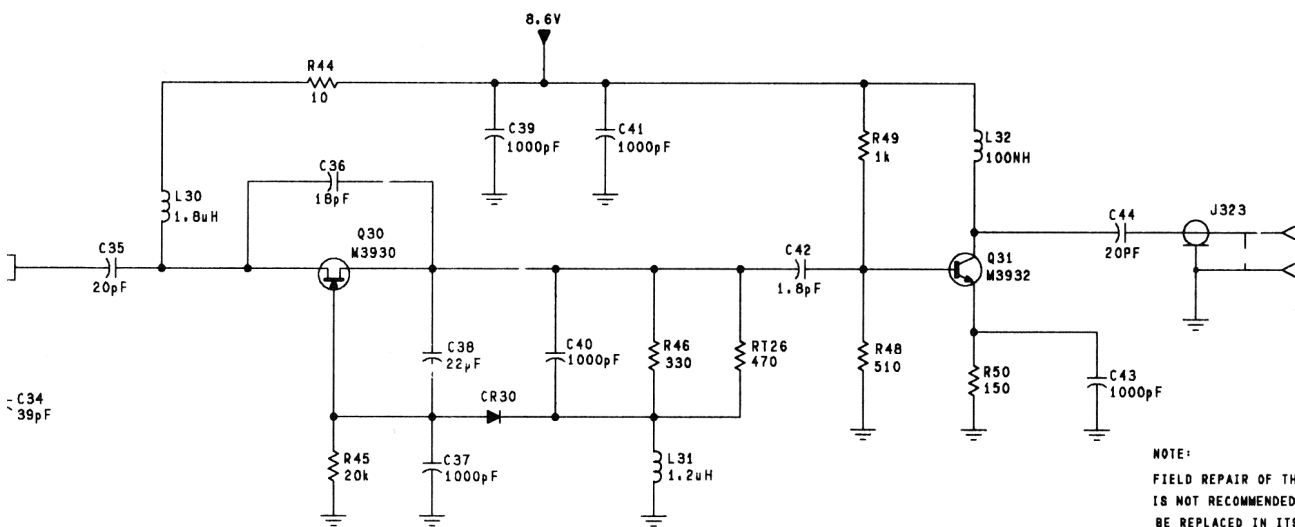
BD-CEPS-47896-0
OL-CEPS-47897-0

J323
XMIT RF

TTD1731A TRANSMIT VCO (132-158 MHZ)

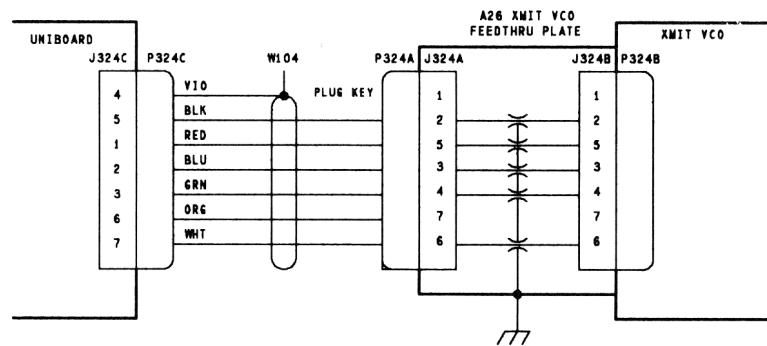






NOTE:
FIELD REPAIR OF THE TTD6231A
IS NOT RECOMMENDED. IT SHOULD
BE REPLACED IN ITS ENTIRETY.
PARTS ARE SHOWN FOR
REFERENCE PURPOSES ONLY.

INTERCONNECT DETAIL



TEPS-47868-0