

TLF1511A INTERMEDIATE POWER AMPLIFIER (IPA) AND 9.6 V REGULATOR

CIRCUIT BOARD DETAIL & PARTS LISTS

parts list

TLF6860A IPA

PL-11412-O

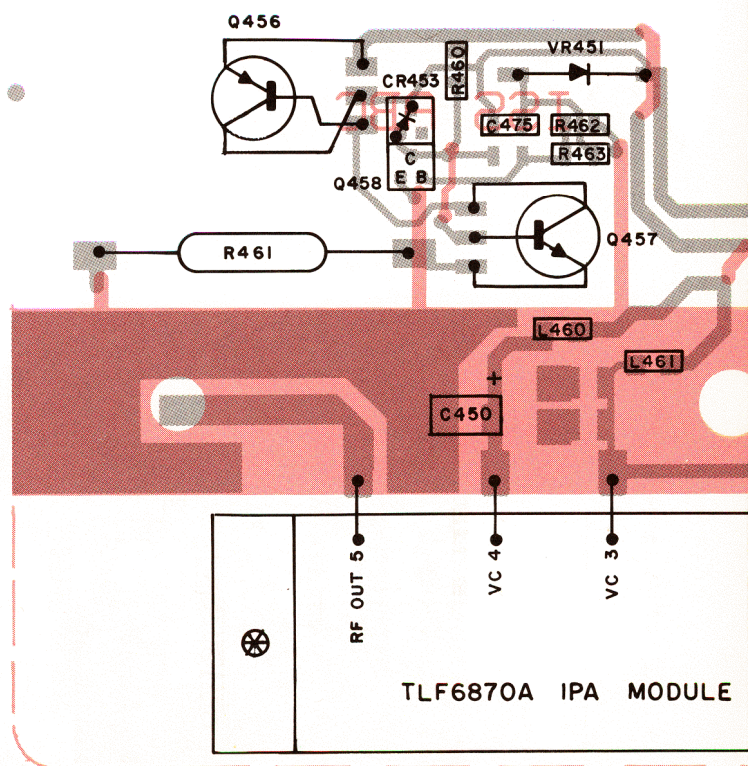
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
capacitor, fixed: pF $\pm$ 5%; 100V unless otherwise stated		
C440	2111078B05	4.7 $\pm$ 0.25pF
C441	2111078B01	3.3 $\pm$ 0.25pF
C442,443	2111078B24	25
C444	2111078B42	100
C445	2111078B15	12
C446	2111078B24	25
C447	2111078B42	100
C448	2111078B17	14
C450,451	2311049A21	22uF $\pm$ 10%; 20V
C475	2113740B32	20; 50V
C476	2311049A21	22uF $\pm$ 10%; 20V
diode: (see note)		
CR451	4805119G04	silicon
CR453	4811058A11	silicon
connector:		
J451	0984231B03	receptacle: phono
J452	2883143M05	plug: 4-pin
coil:		
L451	2483035N12	3 turns
L453	2484331M22	2 turns
L454,455	2480202B01	3 turns
L456	2484331M10	4 turns
L457	2483035N12	3 turns
L459	2411087A01	.005uH
L460 thru 462	2484657R01	chip bead
transistor: (see note)		
Q451	4882022N21	PNP
Q453	4884411L66	NPN
Q455	4811056A09	PNP
Q456	4800869807	NPN
Q457	4800869640	NPN
Q458	4811056A09	NPN
Q459	4811056A08	PNP
resistor, fixed: $\pm$ 5%; 1/8W unless otherwise stated		
R451	0611086C35	100; 2W
R452	0611077A66	470
R453	0611086D01	0.2; 2W
R454	0611077A58	220
R455	0611077A35	24
R456	0611077A58	220
R457	0611077A82	2200
R458	0611077A74	1000
R459,460	0611077A82	2200
R461	0611086C39	150; 2W
R462,463	0611077D60	41.2 $\pm$ 1%
R465	0611077A70	680
R466	0611086C39	150; 2W
R467	0611077A72	820
R468	0611077A21	6.2
R469	0611077A72	820
R470,471	0611077A38	33
voltage regulator: (see note)		
VR451	4883461E32	Zener, 8.2V

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

TRN9930A IPA Hardware Kit

PL-10892-A

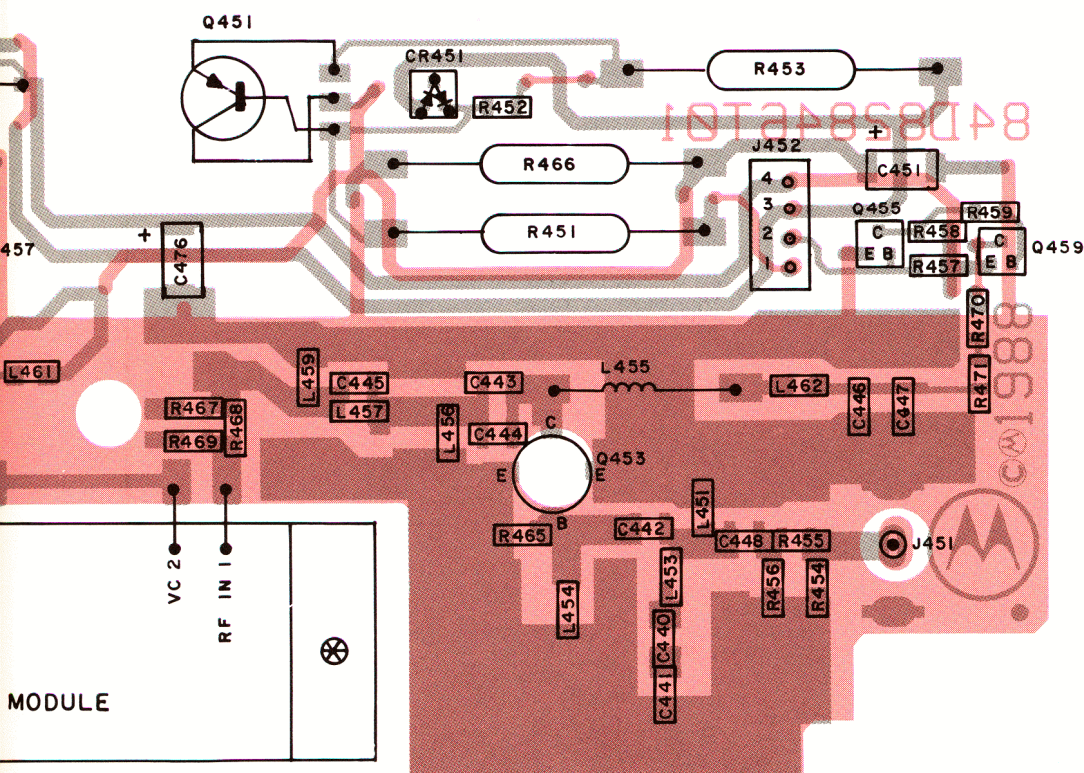
REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
non-referenced items		
0310943J11		SCREW, tapping: TT3 $\times$ 0.5 $\times$ 10mm; 2 used
0310943J16		SCREW, tapping: TT3.5 $\times$ 0.6 $\times$ 10mm; 3 used
0310943M03		SCREW, tapping: TT2.5 $\times$ 0.45 $\times$ 6mm; 2 used
0383677N02		SCREW, captive: M3.5 $\times$ 0.6 $\times$ 18mm; 4 used
0482345A18		WASHER, shoulder: 2 used
0987439C02		CONNECTOR, female: 1-contact
1483820M02		INSULATOR, heat conductive: 2 used
2684873R01		HEATSINK



TLF6870A Omni Hybrid

PL11413-O

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
NOTE		
THIS MODULE IS A NON-REPAIRABLE UNIT.		



CONNECTOR DETAIL

IPA(I/O)
PLUG

○ 1	CONTROL VOLTAGE
○ 2	TX ENABLE
○ 3	A+
○ 4	+9.6V OUTPUT

(PIN VIEW)

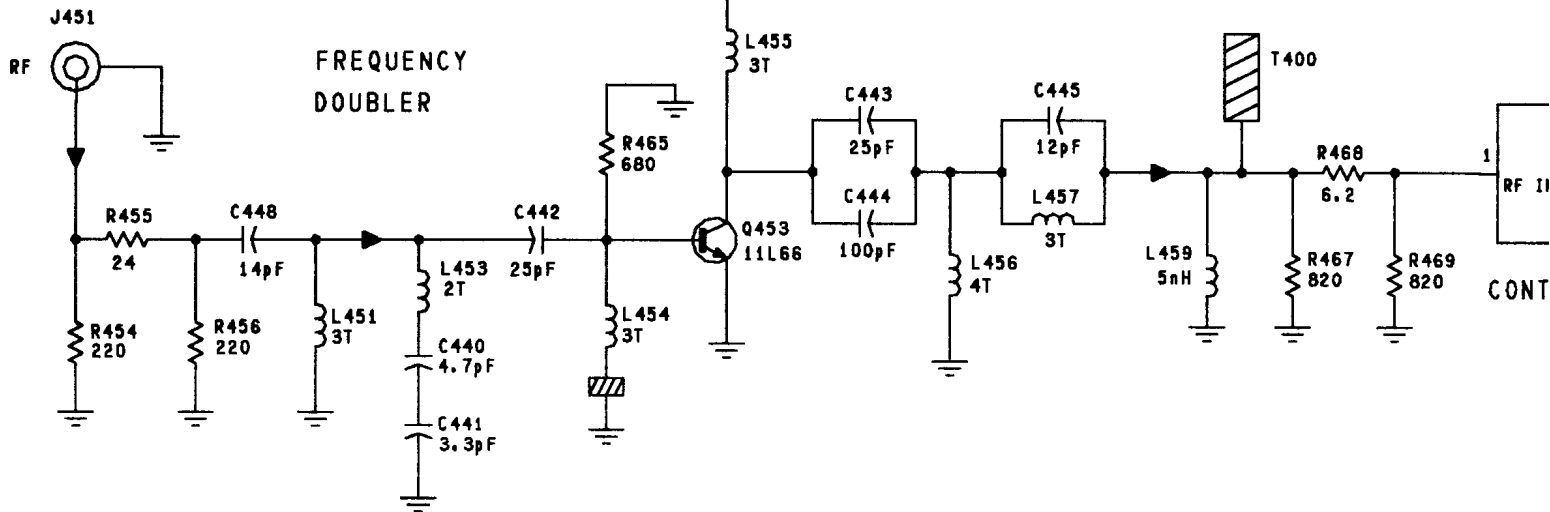
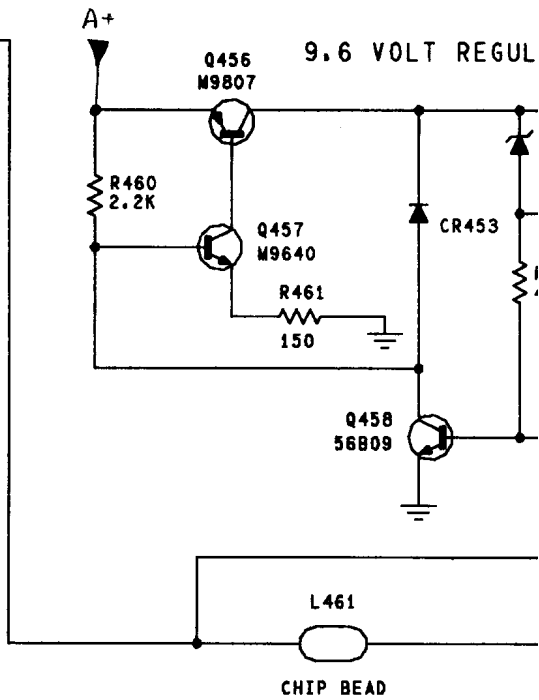
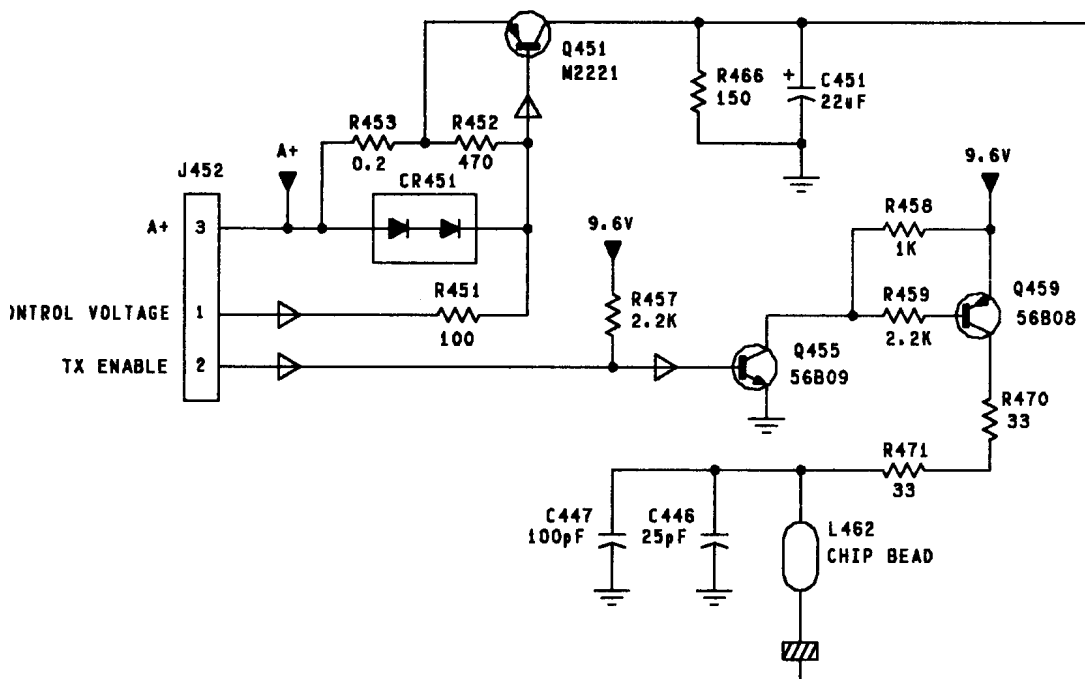
COMPONENT SIDE ● BD-CEPS-47091-0

SOLDER SIDE ● BD-CEPS-47092-0

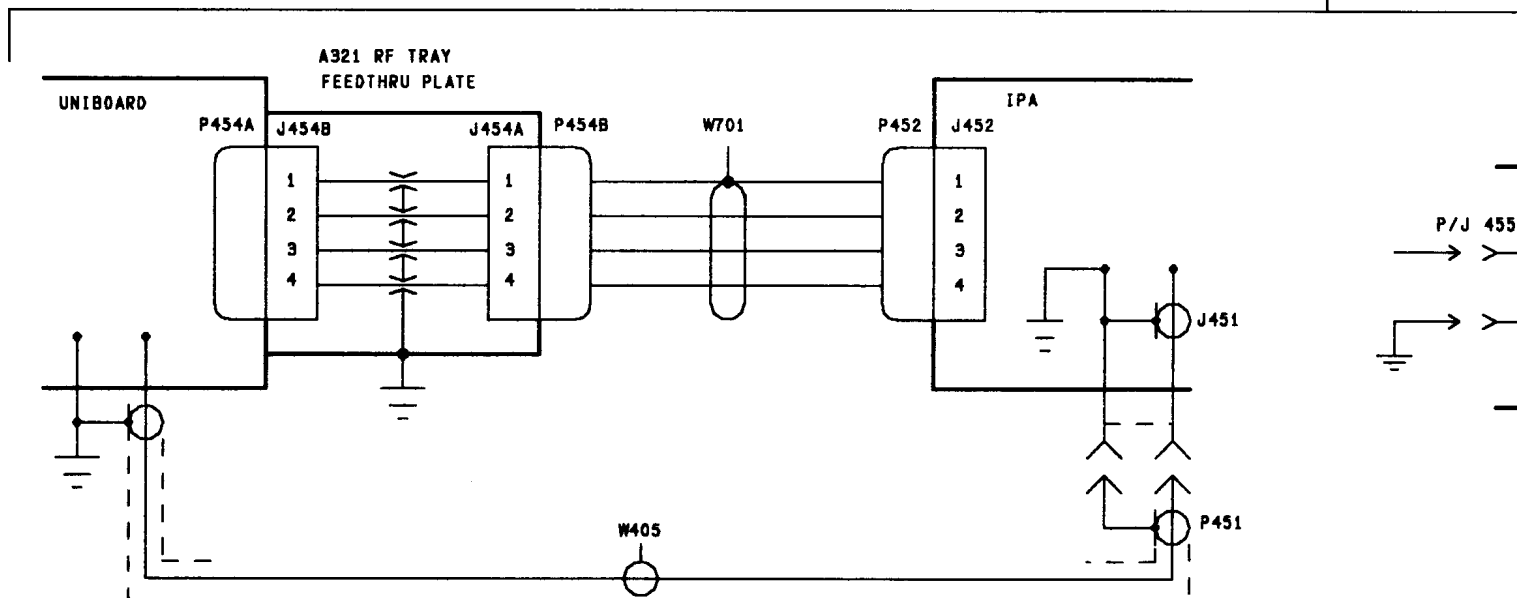
OL-DEPS-47093-0

OWN FROM COMPONENT SIDE

CONTROL VOLTAGE SERIES PASS

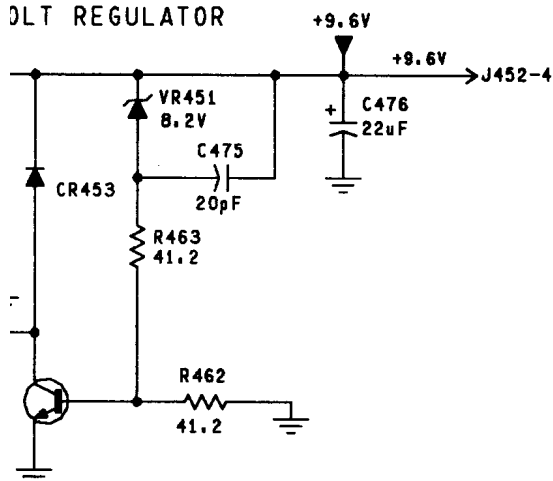


INTERCONNECT DETAILS



INTERMEDIATE POWER AMPLIFIER (IPA) AND 9.6 V REGULATOR SCHEMATIC DIAGRAM

DLT REGULATOR



LEGEND:



MICRO STRIP LINE



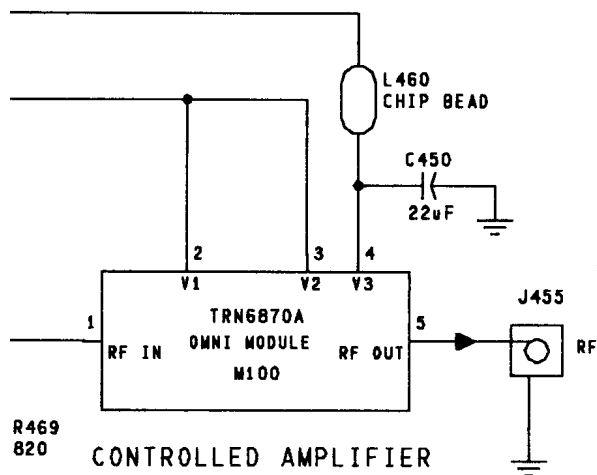
RF SIGNAL FLOW



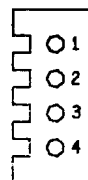
CONTROL SIGNAL FLOW

NOTES:

1. UNLESS OTHERWISE SPECIFIED, ALL RESISTOR VALUES ARE IN OHMS, AND ALL CAPACITORS VALUES ARE IN PICO FARADS.
2. L460, L461 AND L462 ARE SURFACE MOUNTED FERRITE BEAD CHIP COMPONENTS.



W701 CONNECTORS DETAIL IPA (I/O PLUGS)



1 CONTROL VOLTAGE
2 TX ENABLE
3 A+
4 +9.6V

P454 & P452
(PIN VIEW)

DETAILS

TEPS-47094-0

