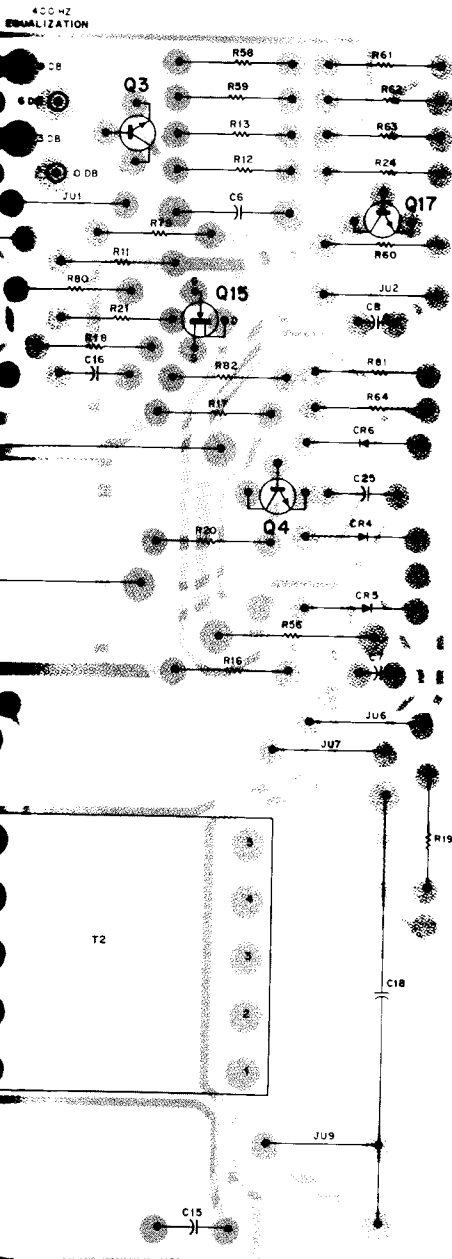


4-WIRE LINE DRIVER

MODEL TRN6552A

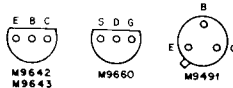


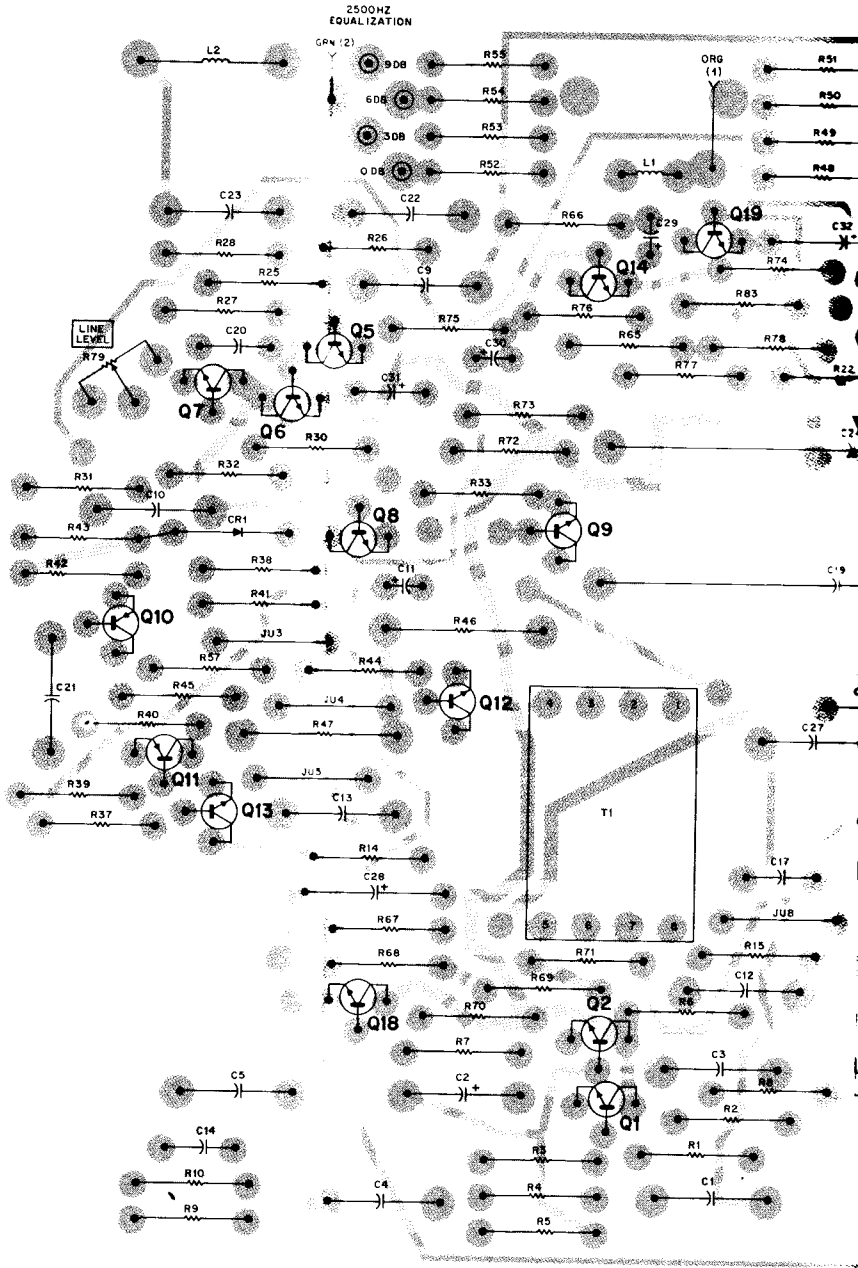
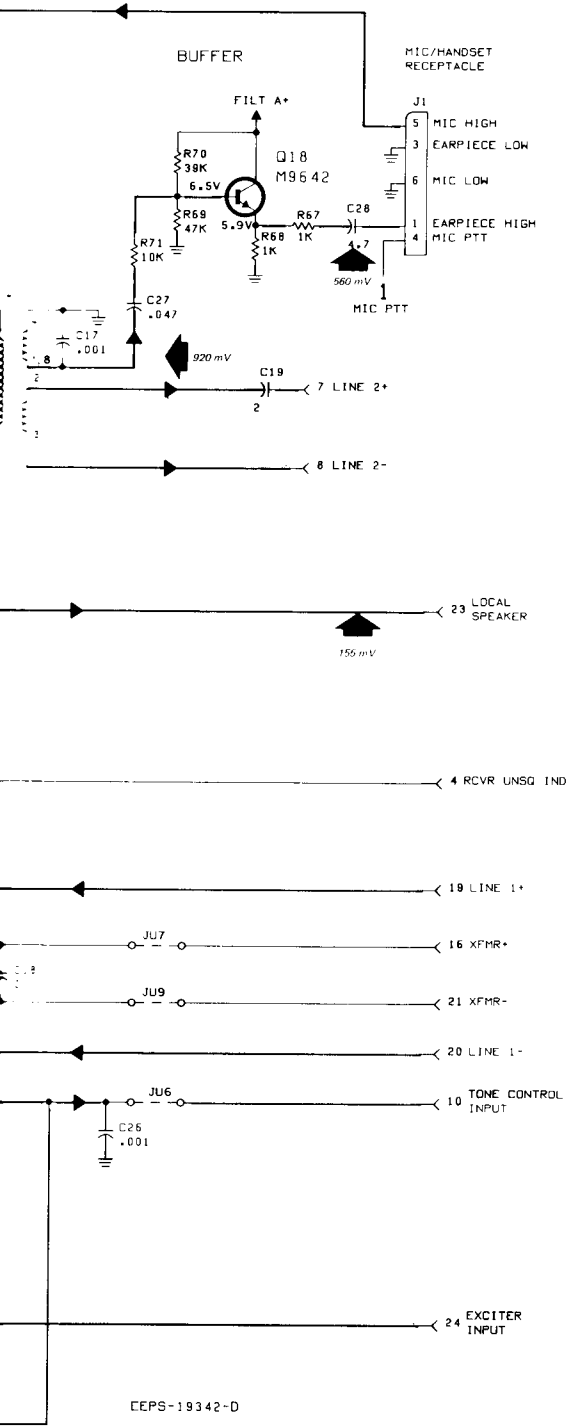
SOLDER SIDE BD-DEPS-21530-0
 COMPONENT SIDE BD-DEPS-21531-0
 DL-DEPS-21532-A

FUNCTION

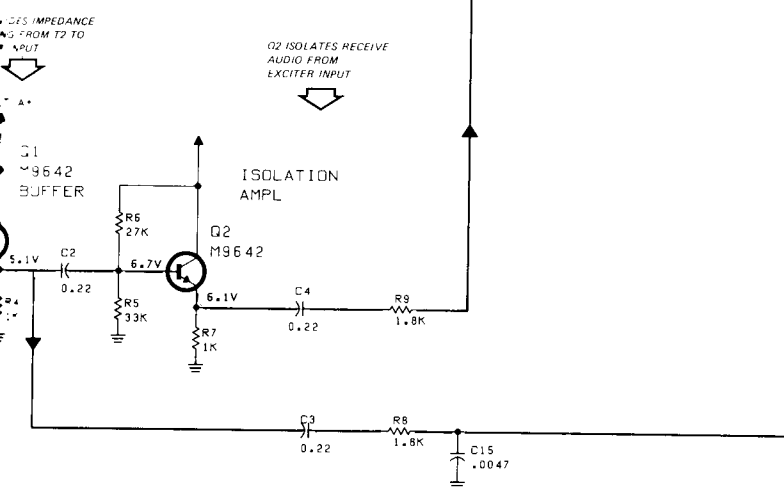
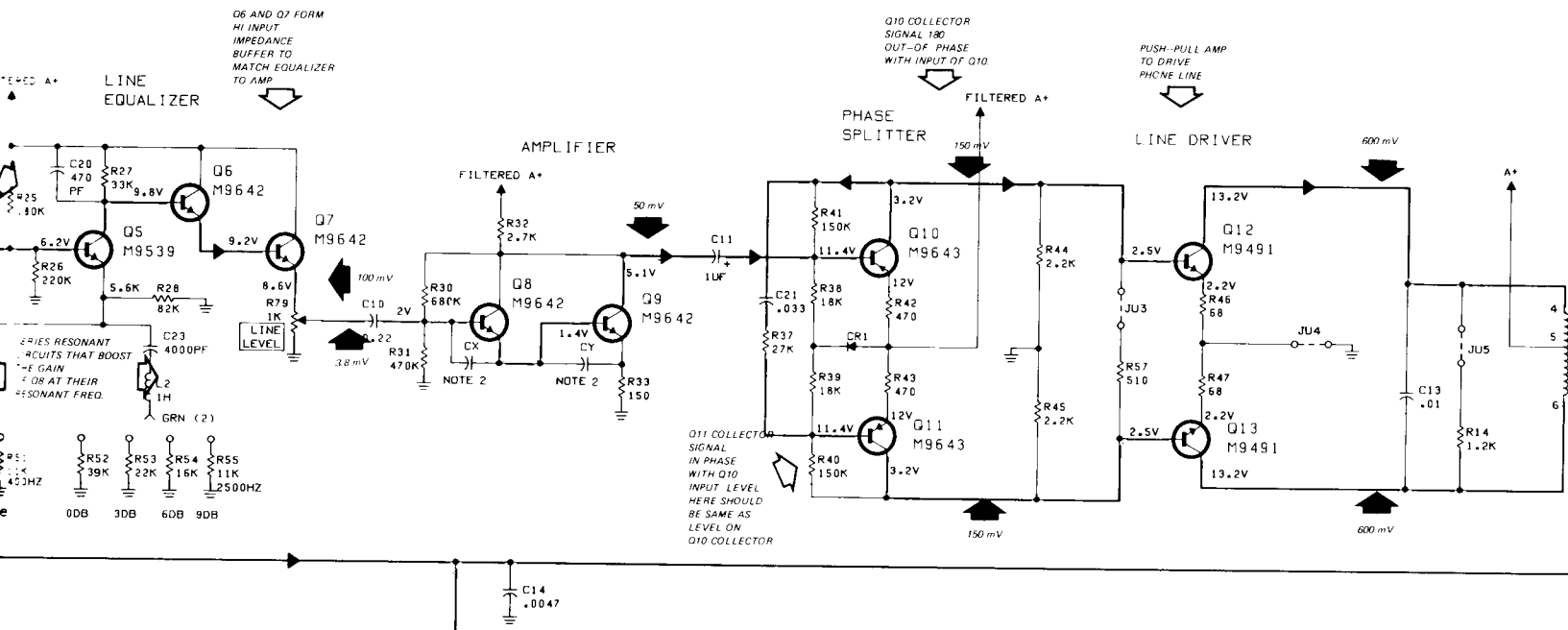
Accepts audio from receiver, amplifies it, and routes it to the "Spectra TAC" comparator and to the local speaker. Line equalization is provided to compensate for output line rolloff. Two transformers are provided; one is used for accepting the transmit audio and control signals, and the other is used to provide audio to the comparator.

TRANSISTOR BASE DETAILS



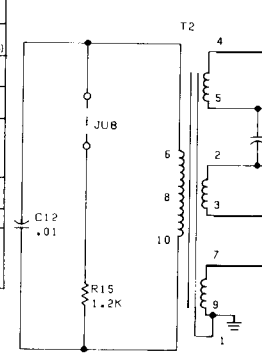


SHOWN FROM COMPONENT SIDE



JUMPER TABLE

JU1	IN FOR -13 dB STATUS TONE OPERATION OUT FOR 0 dB STATUS TONE OPERATION	NORMALLY IN
JU2	WHEN REMOVED, AUDIO IS ROUTED TO A 2175 Hz NOTCH FILTER ON THE F1-PL MODULE	NORMALLY IN (REMOVED FOR TONE CONTROL BASE STATIONS)
JU3	WHEN INSTALLED, THIS JUMPER ATTENUATES LINE OUTPUT 20 dB FOR INPUT TO MICROWAVE EQUIPMENT	NORMALLY OUT
JU4	PROVIDES A GROUND FOR THE LINE DRIVER. REMOVED ONLY WHEN AN EXTERNAL MUTE IS USED.	NORMALLY IN
JU5	PUTS A 1.2K RESISTOR ACROSS THE PRIMARY OF T1 WHICH GIVES LINE 2 A 600-OHM IMPEDANCE. WITH JUS REMOVED, LINE 2 HAS APPROXIMATELY 10K IMPEDANCE.	NORMALLY IN
JU6	PROVIDES AUDIO INPUTS TO GUARD TONE DECODER IN A TONE CONTROLLED SYSTEM.	NORMALLY IN
JU7,9	PROVIDES INPUT TO DC CONTROL MODULE.	NORMALLY IN
JU8	PUTS A 1.2K RESISTOR ACROSS THE PRIMARY OF T2 WHICH GIVES LINE 1 A 600-OHM IMPEDANCE. WITH JUB REMOVED, LINE 1 HAS APPROXIMATELY 10K IMPEDANCE.	NORMALLY IN



REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
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PARTS LIST

TRN6552A 4-Wire Line Driver Kit PL-3904-C

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
CAPACITOR:		
C1 thru 6, 9, 10	8-82905G11	0.22 uF ±10%; 50 V
C7, 8, 29, 30	23-84538G01	1 uF ±20%; 35 V
C12, 13	8-82905G01	.01 uF ±10%; 25 V
C14, 15, 16	21-82187B27	.0047 uF ±10%; 100 V
C16, 17	21-82187B21	.001 uF ±10%; 100 V
C18, 19	8-82045F05	2 uF ±10%; 350 V
C20	21-82187B07	470 pF ±10%; 500 V
C21	8-82905G16	.033 uF ±10%; 100 V
C22	8-82905G39	.023 uF ±10%; 100 V
C23	21-863396	4000 pF ±1%; 500 V
C24	23-83210A19	500 uF ±10%; 20 V
C25	21-82428B25	.002 uF ±10%; 50 V
C26	21-82187B21	.001 uF ±10%; 100 V
C27	8-82905G03	.047 uF ±10%; 50 V
C28	23-84762H07	4.7 uF ±20%; 20 V
C31	23-84538G04	15 uF ±20%; 20 V
C32	23-82783B50	3.3 uF ±10%; 15 V
DIODE: (SEE NOTE)		
CR1, 2, 3, 6	48-83654H01	silicon
CONNECTOR, receptacle:		
J1	28-84269C01	consists of:
	28-84269C02	male contacts; 3 req'd.
		male contacts; 2 req'd.
COIL, RF:		
L1	24-84003A01	choke; 6 H
L2	24-82113H02	choke; 1 H
TRANSISTOR:		
Q1 thru 9	48-869642	NPN; type M9642
Q10, 11	48-869643	PNP; type M9643
Q12, 13	48-869491	NPN; type M9491
Q14	48-869642	NPN; type M9642
Q15	48-869660	field-effect
Q16, 17, 18	48-869642	NPN; type M9642
RESISTOR, fixed: ±5%; 1/4 W;		
unless otherwise stated		
R1	6-11009C83	27k
R2, 3	6-11009C85	33k
R4	6-11009C49	1k
R5	6-11009C85	33k
R6	6-11009C83	27k
R7	6-11009C49	1k
R8, 9, 10	6-11009C55	1.8k
R11	6-11009C49	1k
R12	6-11009C77	15k
R13	6-11009C93	68k
R14, 15	6-11009C51	1.2k
R16, 17, 18	6-11009C73	10k
R19	6-11009C63	3.9k
R20	6-11009C53	1.5k
R21, 22	6-11009D22	1 meg
R24	6-11009C81	22k
R25	6-11009D04	180k
R26	6-11009D06	220k
R27	6-11009C85	33k
R28	6-11009C95	82k
R30	6-11009D18	680k
R31	6-11009D14	470k
R32	6-11009C59	2.7k
R33	6-11009C29	150
R34	6-11009C79	18k
R37, 59	6-11009C83	27k
R38, 39	6-11009C79	18k
R40, 41	6-11009D02	150k
R42, 43	6-11009C41	470
R44, 45	6-11009C57	2.2k
R46, 47	6-125A21	68; 1/2 W
R48	6-11009C85	33k
R49	6-11009C81	22k
R50	6-11009C78	16k
R51	6-11009C74	11k
R52	6-11009C87	39k
R53	6-11009C81	22k
R54	6-11009C78	16k
R55	6-11009C74	11k
R56	6-125A01	10; 1/2 W
R57	6-11009C42	510
R58	6-11009C13	33
R60, 61	6-11009C89	47k

REFERENCE SYMBOL	MOTOROLA PART NO.	DESCRIPTION
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R62	6-11009C57	2.2k
R63	6-11009C73	10k
R64	6-11009C97	100k
R65	6-11009C81	22k
R66	6-11009C92	62k
R67, 68	6-11009C49	1k
R69	6-11009C89	47k
R70	6-11009C87	39k
R71	6-11009C73	10k
R72, 73	6-11009C43	560
R74	6-11009C33	220
R75	6-11009C73	10k
R76	6-11009C91	56k
R77	6-11009C65	4.7k
R78	6-11009C81	22k
R79	18-82515B42	variable, 1k ±20%
R80	6-11009C65	4.7k
R81	6-11009C53	1.5k
R82	6-11009C89	47k
R83	6-11009C73	10k
TRANSFORMER:		
T1	25-84202A02	pri: 50 ohms sec: 50 ohms
T2	25-83000C01	pri #1: 25 ohms pri #2: 25 ohms sec #1: 50 ohms sec #2: 190 ohms
NON-REFERENCED ITEMS		
	43-865080 39-10184A10	BUSHING, 2 req'd. PIN, male; 8 req'd.