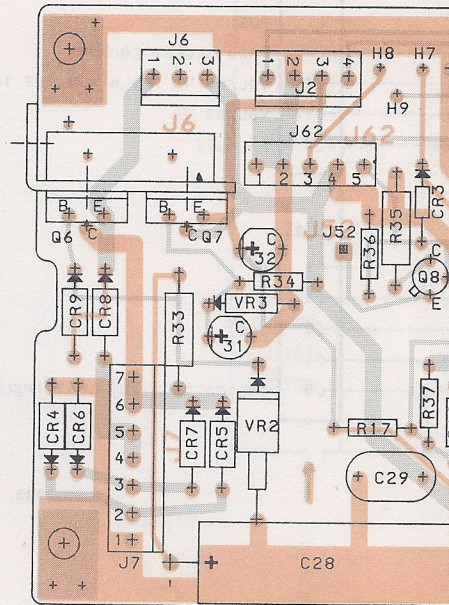
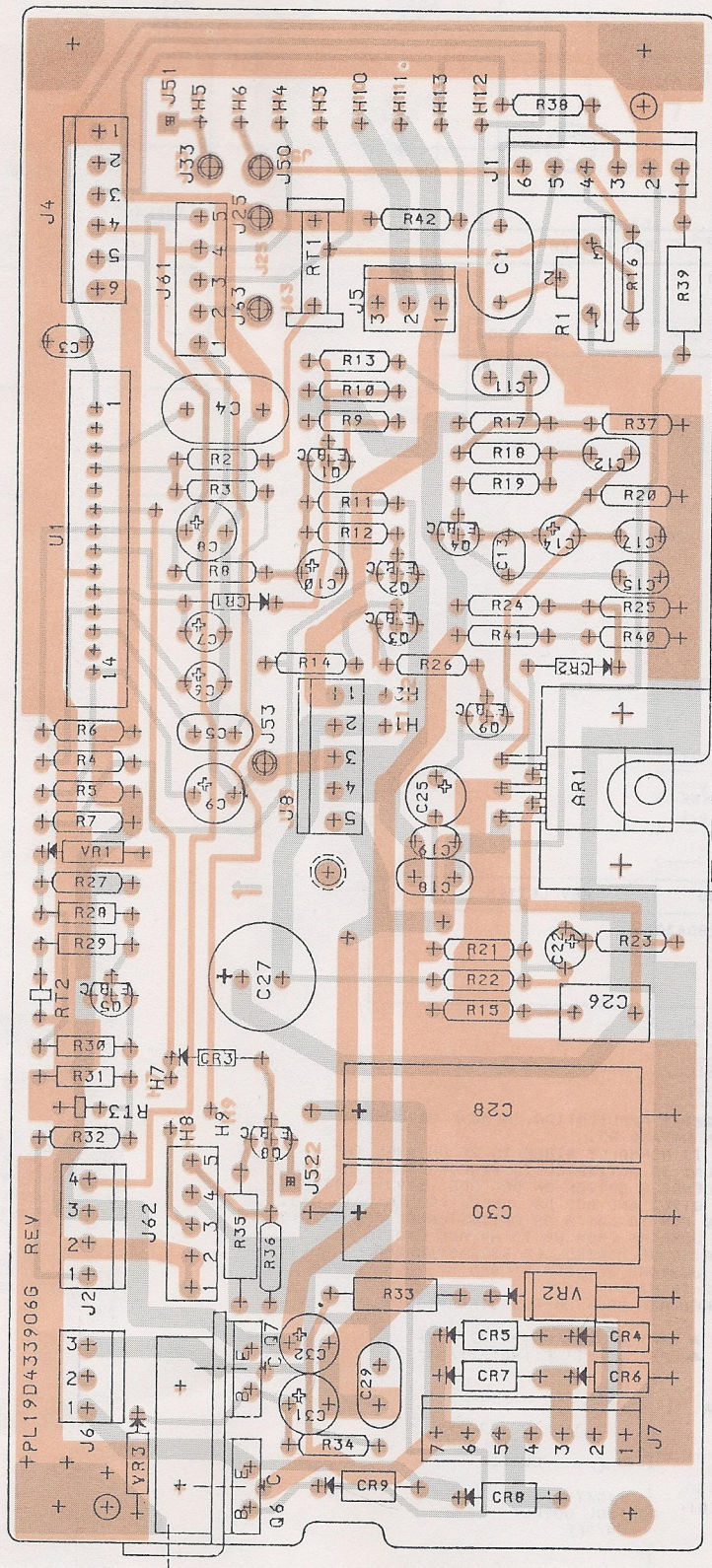
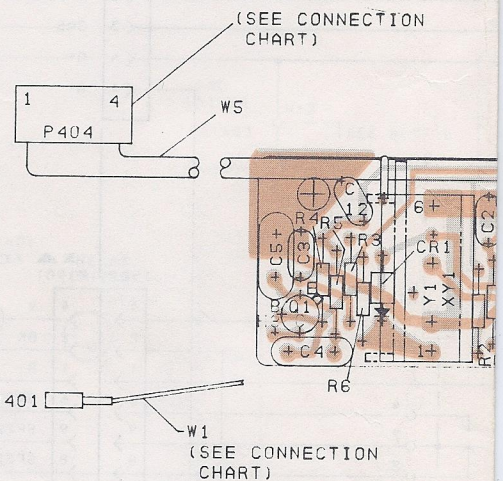


SYSTEM BOARD 19D433906G1

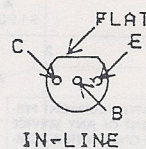


(19D424892, Rev. 1)
(19B232140, Sh. 1, Rev. 1)
(19B232140, Sh. 2, Rev. 1)

REFERENCE DESIGNATIONS
FOR COMPLETE DESIGNATION
WITH 900 SERIES.
EXAMPLE: C1-C901, R1-R9



LEAD IDENTIFICATION
FOR Q1-Q5, Q8 & Q9

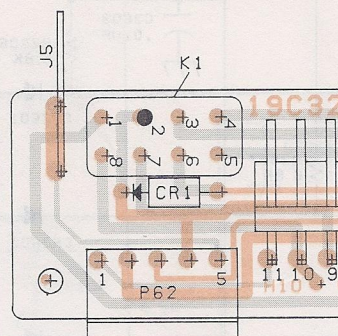
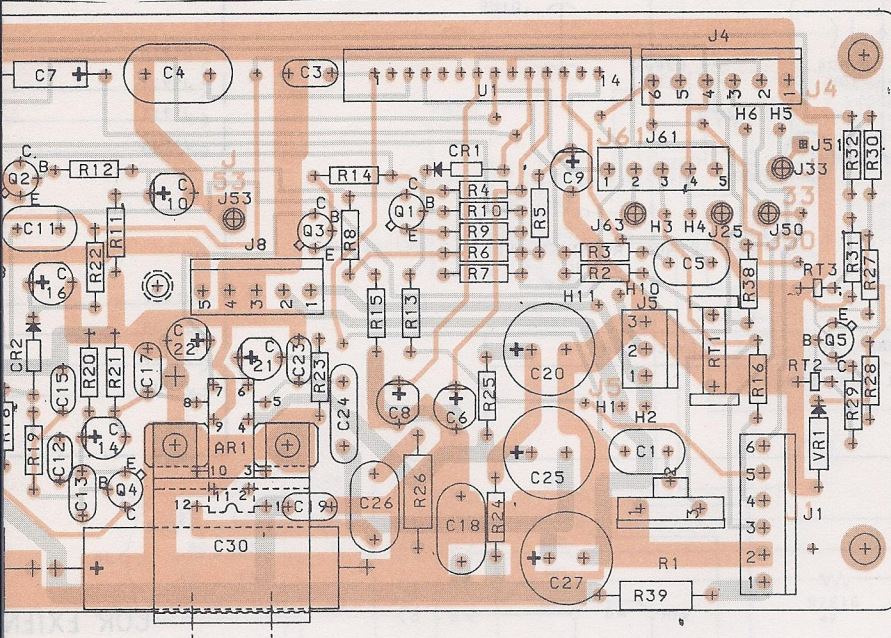


TOP VIEW

NOTE: CASE SHAPE IS DETERMINING
FACTOR FOR LEAD IDENTIFICATION.

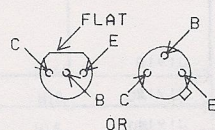
FROM	TO	WIRE
H1	H2	DA
H3	H4	DA
H5	H6	DA
H7	H8	DA
H10	H11	DA
H12	H13	DA

SYSTEM BOARD 19D424894G1



(19C328044, Rev. 0)
(19B232328, Sh. 1, Rev. 0)
(19B232328, Sh. 2, Rev. 0)

LEAD IDENTIFICATION FOR Q1-Q5 & Q8



IN-LINE TRIANGULAR
TOP VIEW

NOTE: LEAD ARRANGEMENT, AND NOT
CASE SHAPE, IS DETERMINING
FACTOR FOR LEAD IDENTIFICATION.

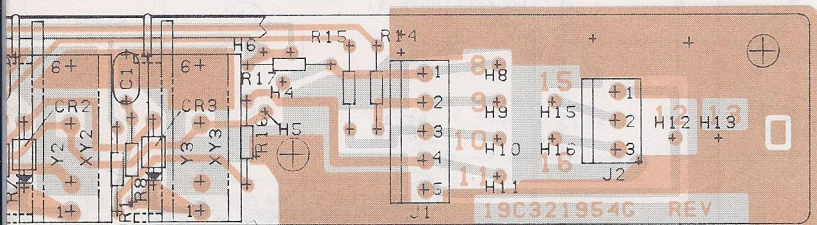
ARE SHOWN.
ON PREFIX

01 ETC.

MULTI-FREQUENCY KIT

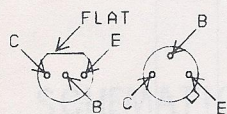
NOTES:

- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.
FOR COMPLETE DESIGNATION, PREFIX
WITH 2600 SERIES. EXAMPLE: C1-C2601
R1-R2601, ETC.



(19C327831, Rev. 0)
(19B232143, Sh. 1, Rev. 0)
(19B232143, Sh. 2, Rev. 0)

LEAD IDENTIFICATION FOR Q1



IN-LINE TRIANGULAR
TOP VIEW

NOTE: LEAD ARRANGEMENT, AND NOT
CASE SHAPE, IS DETERMINING
FACTOR FOR LEAD IDENTIFICATION

(19C327865, Rev. 0)
(19B232153, Sh. 1, Rev. 0)
(19B232153, Sh. 2, Rev. 0)

CONNECTION CHART		
WIRE	TO	REMARKS
W1	H3	
W5-R	H6	
W5-BL	H5	
W5-BR	H4	
H12	H13	DA WIRE
H8	H15	DA WIRE
H9	H16	DA WIRE

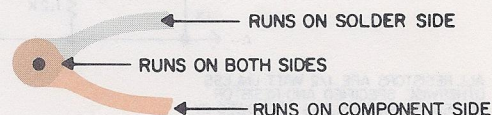


CONNECTION CHART		
FROM	TO	WIRE
H1	H2	DA
H4	H5	DA
H6	H7	DA

ORDER BOARD



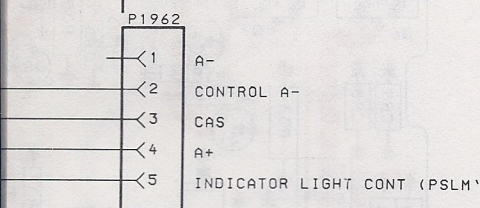
TRICKLE CHARGER BOARD



SYSTEM BOARD, CONTROL PANEL,
5-PPM MULTI-FREQUENCY KIT,
COR & PSLM EXTENDER BOARD
AND TRICKLE CHARGER BOARD

11

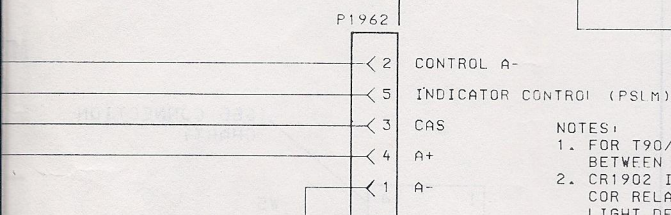
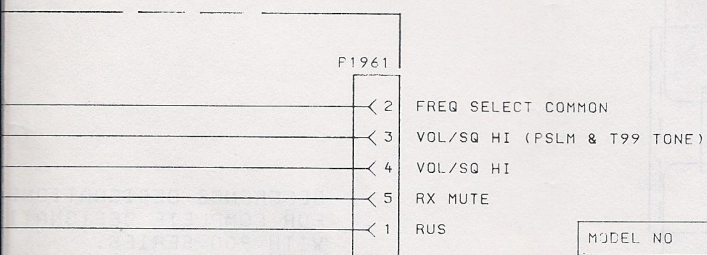
PSLM EXTENDER BOARD



MODEL NO	REV LETTER
PL19C32783061	

(19B232245, Rev. 1)

DER BOARD

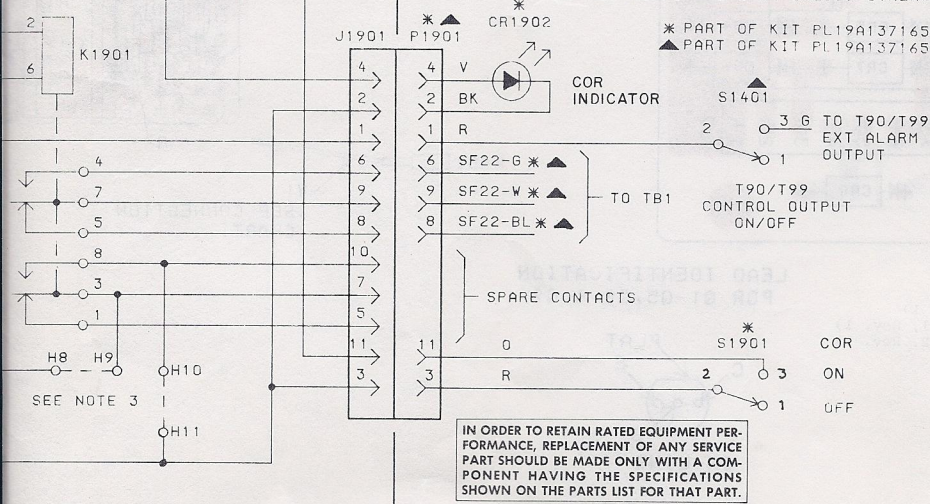


MODEL NO	REV LETTER
PL19C32804361	

NOTES:

1. FOR T90/T99 APPLICATION, REMOVE DA JUMPER BETWEEN H4 AND H5.
2. CR1902 IS NORMALLY WIRED TO BE ON WHEN THE COR RELAY IS ACTIVATED. TO WIRE SO THAT THE LIGHT DENOTES OPTION ON OR OFF (S1901 SWITCH) REMOVE Q1903 AND ADD DA JUMPER FROM H12 TO H13.
3. FOR THE COR TO LATCH ON UNTIL TURNED OFF BY S1901, ADD DA JUMPERS FROM H8 TO H9 AND H10 TO H11.
4. FOR COR TO BE CONTROLLED BY CAS (NORMALLY RUS) REMOVE JUMPERS BETWEEN H1 AND H2, ADD JUMPER FROM H2 TO H3.
5. ALL WIRES ARE SF24 UNLESS OTHERWISE NOTED.

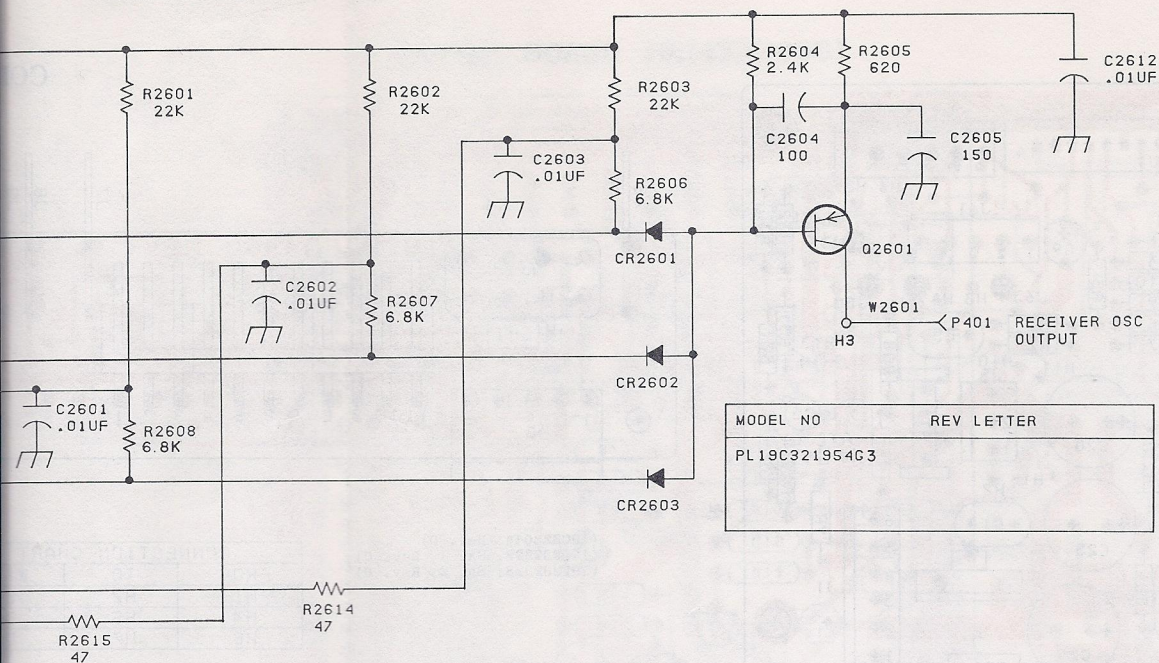
* PART OF KIT PL19A137165G6.
▲ PART OF KIT PL19A137165G2.G3.



IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

(19D429103, Rev. 2)

MULTI-FREQUENCY KIT



PL19C327830G1

J1910
J1912
J1911
J1934

J1909
J1908
J1907
J1905

COR EXTEN

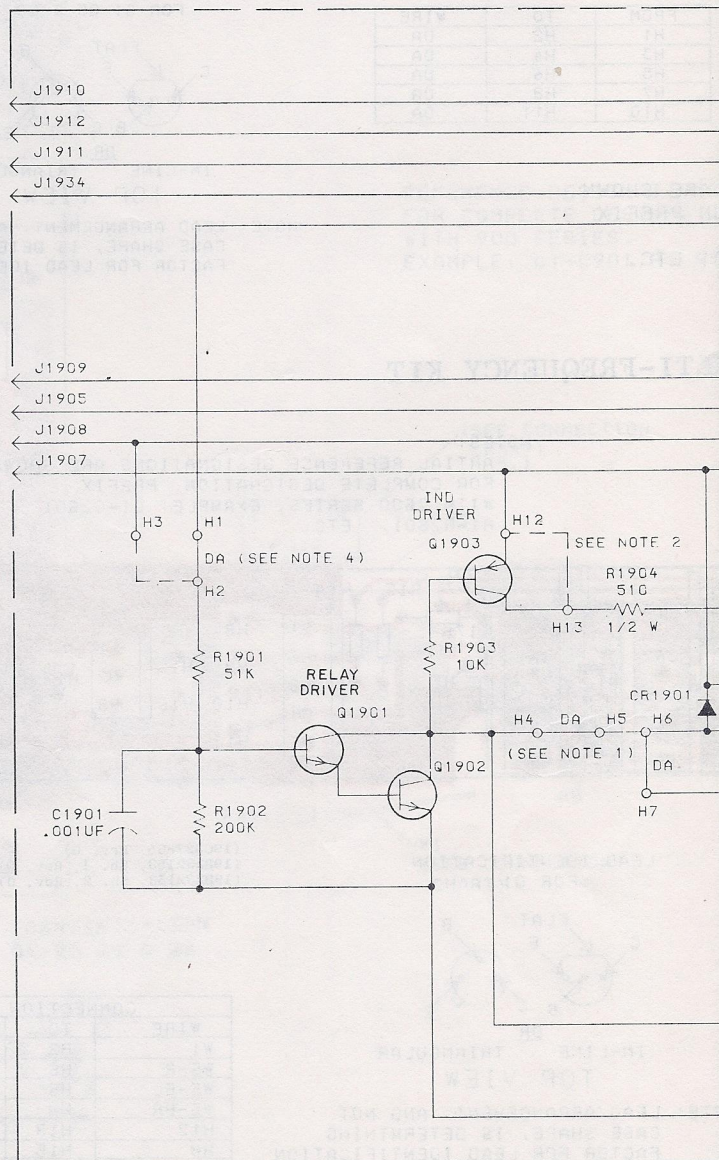
ARE 1/4 WATT UNLESS
SPECIFIED AND RESISTOR
VALUES UNLESS FOLLOWED BY
MEG-1,000,000 OHMS.
VALUES IN PICO FARADS (EQUAL
TO 1000 FARADS) UNLESS FOLLOWED
BY PADS.

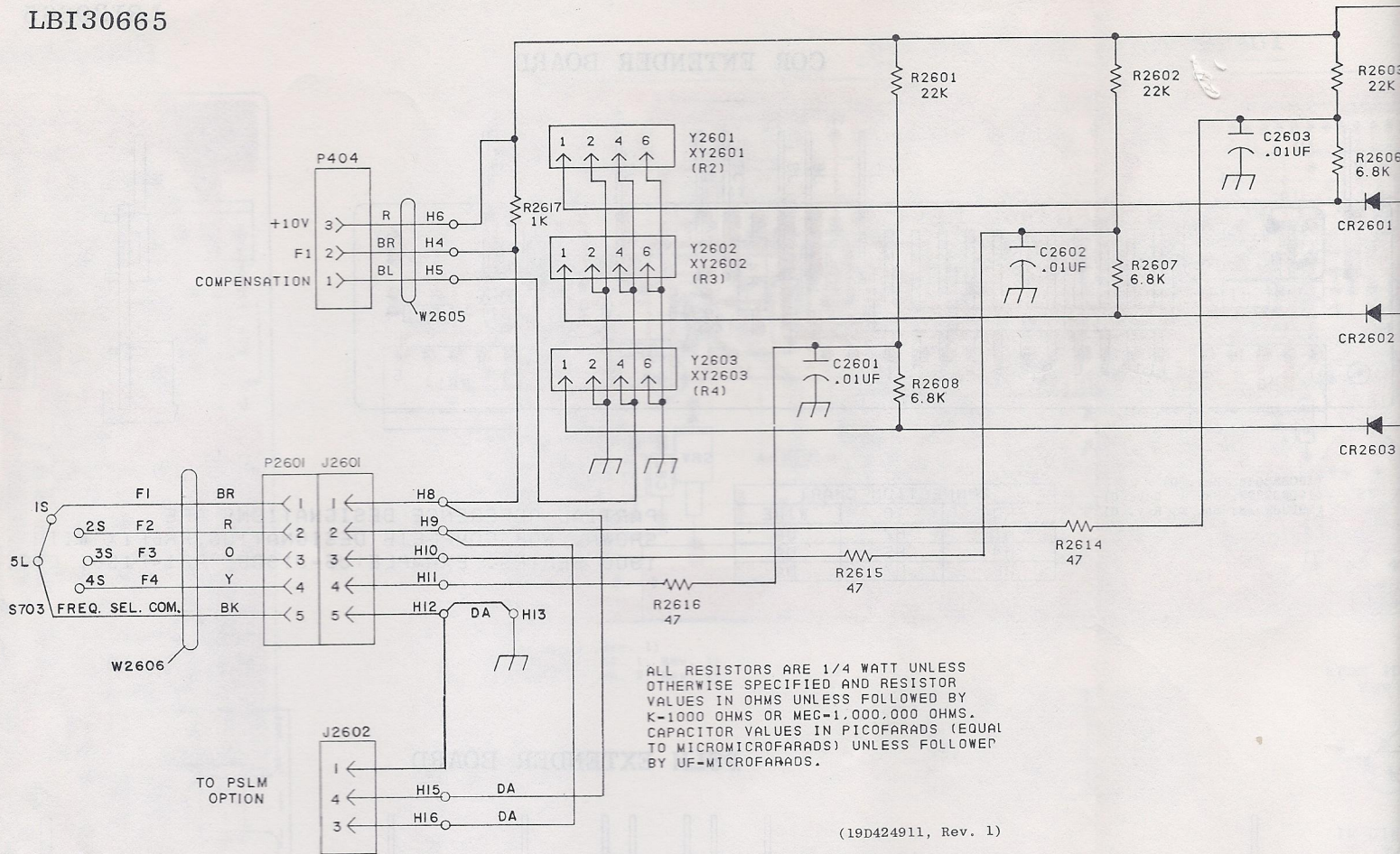
(19D424911, Rev. 1)

NOTE:
1. PARTIAL REFERENCE DESIGNATIONS ARE
SHOWN. FOR COMPLETE DESIGNATIONS,
PREFIX WITH 2400 SERIES.
EXAMPLE: C1- C2401, R1- R2401 ETC.

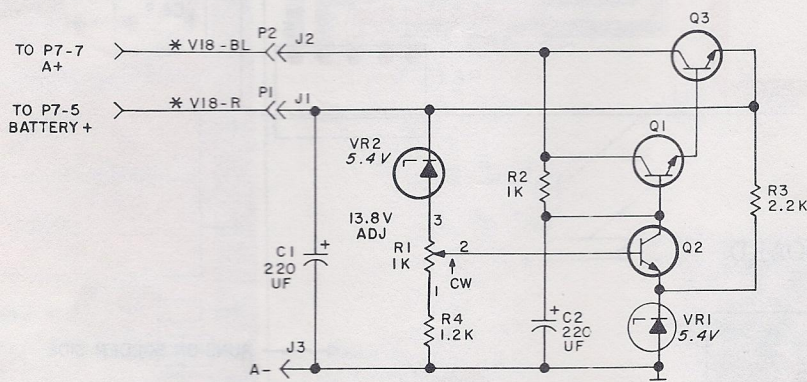
IN ORDER TO RETAIN RATED EQUIPMENT
PERFORMANCE, REPLACEMENT OF ANY
SERVICE PART SHOULD BE MADE ONLY WITH
A COMPONENT HAVING THE SPECIFICATIONS
SHOWN ON THE PARTS LIST FOR THAT PART.

THIS ELEM DIAG APPLIES TO	
MODEL NO	REV LETTER
19B232154G1	





TRICKLE CHARGER



NOTE:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATIONS, PREFIX WITH 2400 SERIES. EXAMPLE: C1- C2401, R1- R2401 ETC.

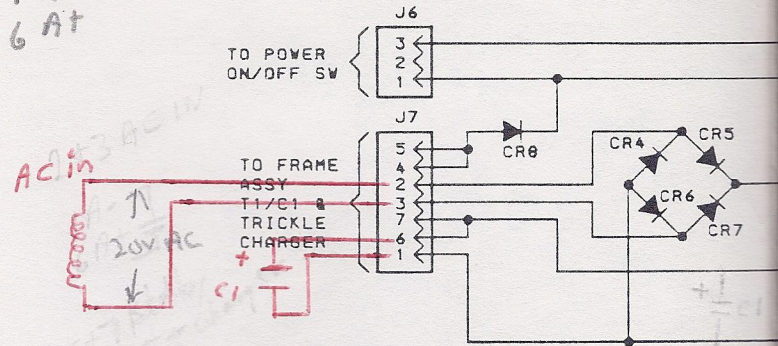
IN ORDER TO RETAIN RATED EQUIPMENT PERFORMANCE, REPLACEMENT OF ANY SERVICE PART SHOULD BE MADE ONLY WITH A COMPONENT HAVING THE SPECIFICATIONS SHOWN ON THE PARTS LIST FOR THAT PART.

THIS ELEM DIAG APPLIES TO
MODEL NO 19B232154G1
REV LETTER

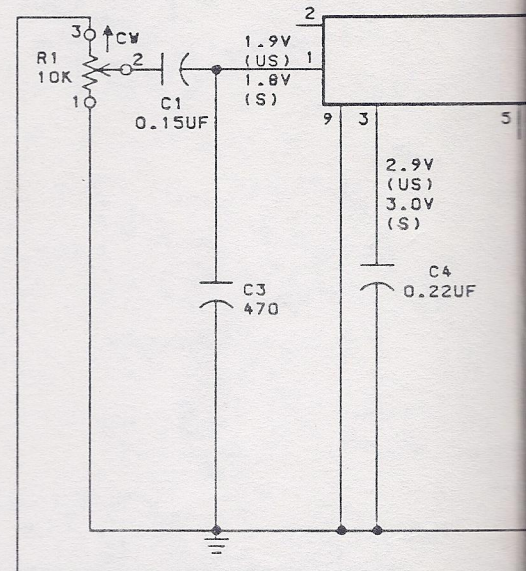
SCHEMATIC DIAGRAMS

5-PPM MULTI-FREQUENCY KIT,
TRICKLE CHARGER, PSLM AND COR EXTENDER BOARD

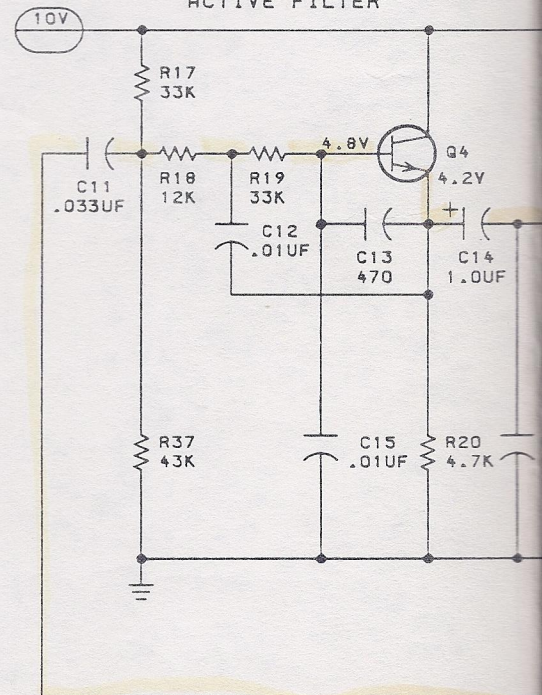
J7- 2+3 AC IN
 4 5+7 Standby Batt + charger
 1 A-
 6 A+



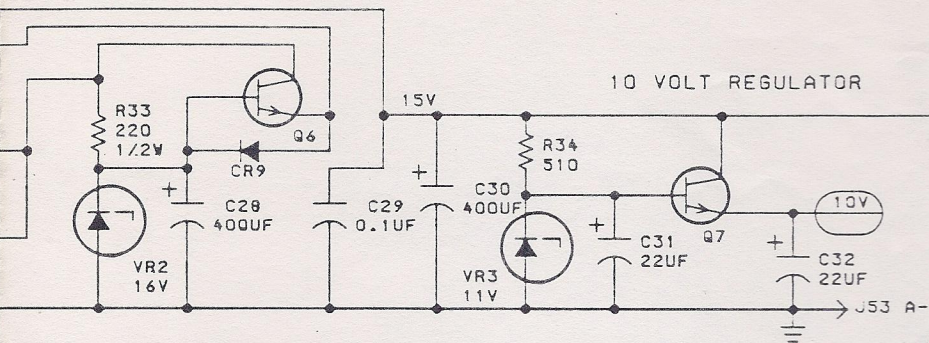
SQUELCH ADJ.



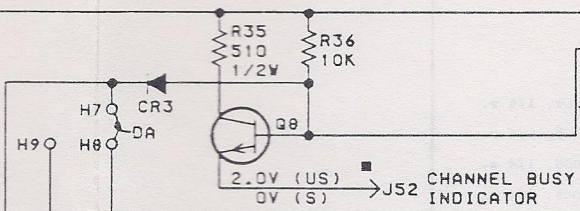
ACTIVE FILTER



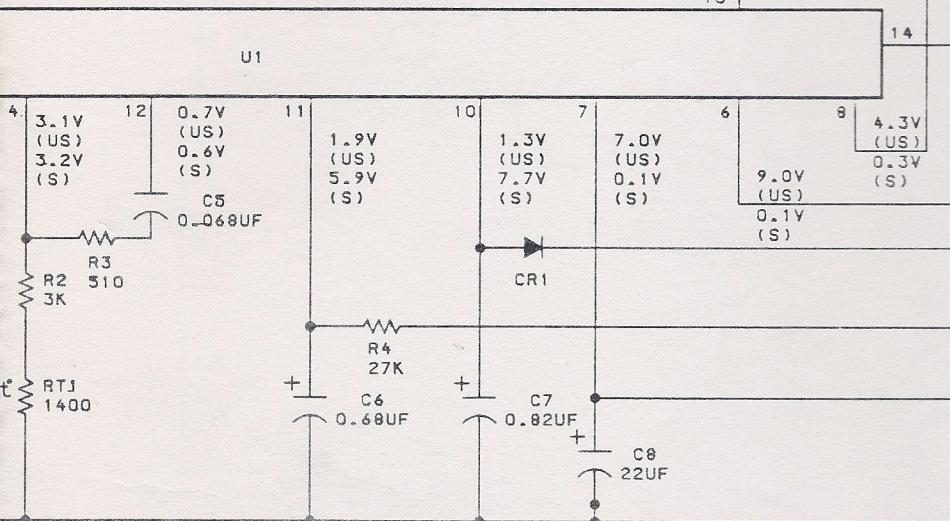
15 VOLT REGULATOR



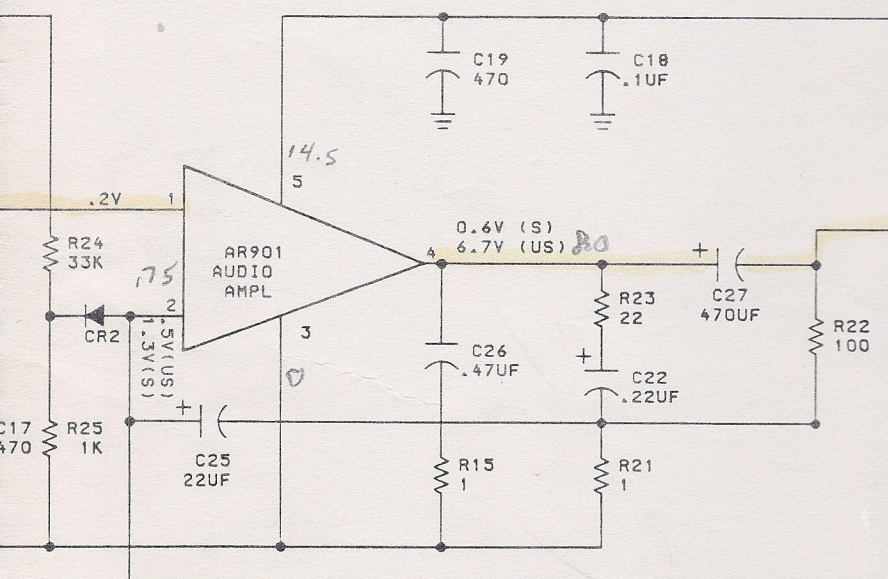
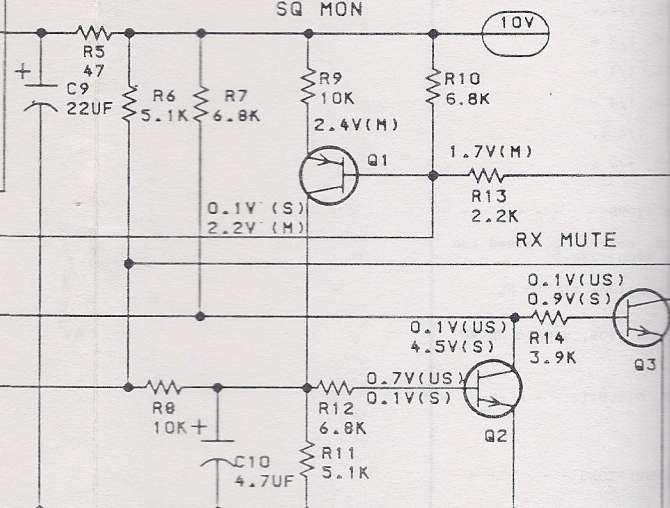
IND DRIVER



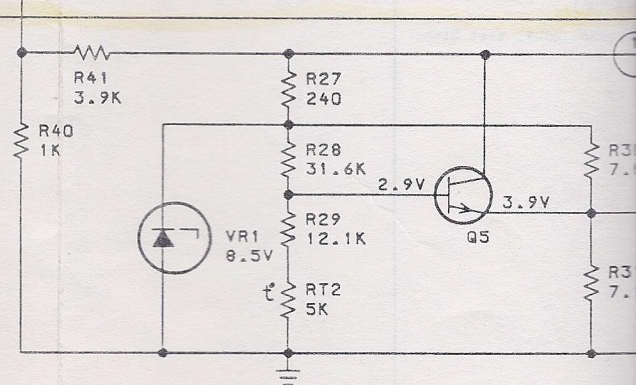
SQUELCH CKT

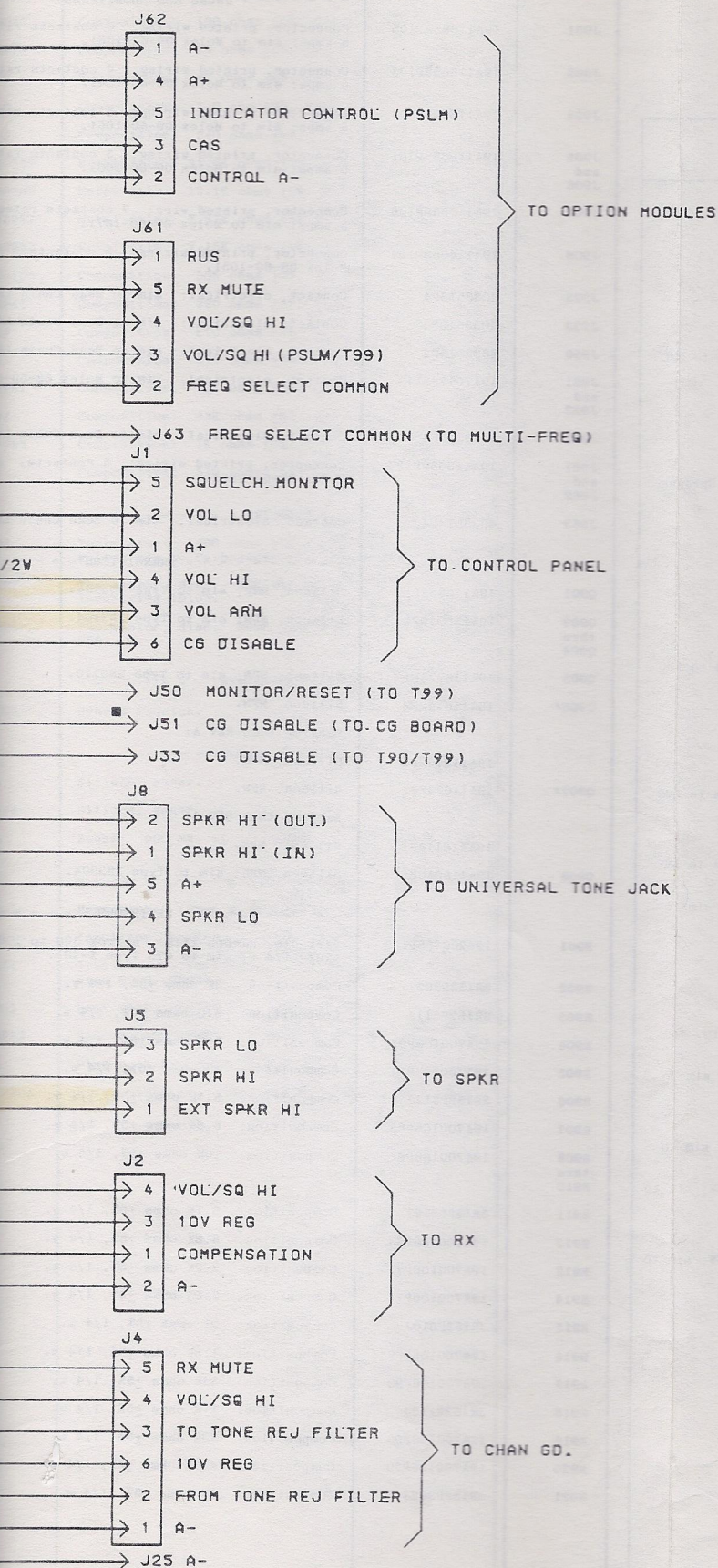


SQ MON



RX OSC. COMPENSATION





ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR MEG=1,000,000 OHMS. CAPACITOR VALUES IN PICO FARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF=MICROFARADS. INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH=MILLIHENRYS OR H=HENRYS.

VOLTAGE READINGS

VOLTAGE READINGS ARE TYPICAL READINGS MEASURED TO SYSTEM NEGATIVE (J902-2) WITH TEST SET MODEL 4EX3A11 OR A 20,000 OHM-PER-VOLT METER
S-NO SIGNAL IN WITH SQUELCH CONTROL FULLY CLOCKWISE (MAXIMUM SQUELCH).
US- SQUELCH CONTROL FULLY COUNTER-CLOCKWISE.

MODEL NO	REV LETTER
PL19D433906G1	

NOTES:

- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 900 SERIES.
EXAMPLE: C1-C901, R1-R901 ETC.
- INDICATES SQUARE POST.
- + REMOVE JUMPER H1 TO H2 FOR SPEAKER MUTE FUNCTION WITH EXTERNAL DECODER.
- REMOVE JUMPER H10 TO H11 FOR EXTERNAL SPEAKER.
- ▲▲ REMOVE JUMPER H5 TO H6 FOR T99 DECODER OPTION.
- ◆◆ REMOVE JUMPER H3 TO H4 FOR T99 DECODER OR PSLM.
- ▲ REMOVE DA H12 TO H13 FOR CHANNEL GUARD APPLICATION.

SCHEMATIC DIAGRAM

SYSTEM BOARD 19D433906G1

PARTS LIST

SYSTEM BOARD (A1)
19D424894G1
ISSUE 1

SYMBOL	GE PART NO.	DESCRIPTION
----- INTEGRATED CIRCUITS -----		
AR901	19A134339P2	Linear, audio amplifier; sim to SGS-ATES TBA810-ACB.
----- CAPACITORS -----		
C901	19A116080P108	Polyester: 0.155 uF $\pm 10\%$, 50 VDCW.
C903	5494481P107	Ceramic disc: 470 pF $\pm 20\%$, 1000 VDCW; sim to RMC Type JF Discap.
C904	19A116080P109	Polyester: 0.22 uF $\pm 10\%$, 50 VDCW.
C905	19A116080P106	Polyester: 0.068 uF $\pm 10\%$, 50 VDCW.
C906	19A134202P13	Tantalum: 0.68 uF $\pm 20\%$, 35 VDCW.
C907	5496267P230	Tantalum: 0.82 uF $\pm 10\%$, 35 VDCW, sim to Sprague Type 150D.
C908 and C909	19A134202P6	Tantalum: 22 uF $\pm 20\%$, 15 VDCW.
C910	19A134202P3	Tantalum: 4.7 uF $\pm 20\%$, 10 VDCW.
C911	19A116080P108	Polyester: 0.155 uF $\pm 10\%$, 50 VDCW.
C912	19A116080P101	Polyester: 0.01 uF $\pm 10\%$, 50 VDCW.
C913	5494481P107	Ceramic disc: 470 pF $\pm 20\%$, 1000 VDCW; sim to RMC Type JF Discap.
C914	19A134202P14	Tantalum: 1 uF $\pm 20\%$, 35 VDCW.
C915	19A116080P101	Polyester: 0.01 uF $\pm 10\%$, 50 VDCW.
C916	19A134202P5	Tantalum: 3.3 uF $\pm 20\%$, 15 VDCW.
C917	5494481P107	Ceramic disc: 470 pF $\pm 20\%$, 1000 VDCW; sim to RMC Type JF Discap.
C918	19A116080P107	Polyester: 0.1 uF $\pm 10\%$, 50 VDCW.
C919	5494481P107	Ceramic disc: 470 pF $\pm 20\%$, 1000 VDCW; sim to RMC Type JF Discap.
C920	19A134319P2	Electrolytic: 330 uF -10 +75%, 25 VDCW; sim to Sprague 502D189.
C921	19A134202P2	Tantalum: 47 uF $\pm 20\%$, 6 VDCW.
C922	19A134202P6	Tantalum: 22 uF $\pm 20\%$, 15 VDCW.
C923	19A116080P101	Polyester: 0.01 uF $\pm 10\%$, 50 VDCW.
C924	5494481P124	Ceramic disc: 1500 pF $\pm 10\%$, 1000 VDCW; sim. to RMC Type JF Discap.
C925	19A134319P1	Electrolytic: 220 uF -10 +75%, 25 VDCW; sim to Sprague 502D182.
C926	19A116080P107	Polyester: 0.1 uF $\pm 10\%$, 50 VDCW.
C927	19A134319P1	Electrolytic: 220 uF -10 +75%, 25 VDCW; sim to Sprague 502D182.
C928	19A115680P24	Electrolytic: 400 uF +150% -10%, 18 VDCW; sim to Mallory Type TTX.
C929	19A116080P107	Polyester: 0.1 uF $\pm 10\%$, 50 VDCW.
C930	19A115680P24	Electrolytic: 400 uF +150% -10%, 18 VDCW; sim to Mallory Type TTX.
C931 and C932	19A134202P6	Tantalum: 22 uF $\pm 20\%$, 15 VDCW.
----- DIODES AND RECTIFIERS -----		
CR901 thru CR903	19A115250P1	Silicon, fast recovery, 225 mA, 50 PIV.
CR904 thru CR909	4037822P1	Silicon, 1000 mA, 400 PIV.

SYMBOL	GE PART NO.	DESCRIPTION
----- JACKS AND RECEPTACLES -----		
J901	19A116659P105	Connector, printed wiring: 6 contacts 5 amps; sim to Molex 09-60-1061.
J902	19A116659P103	Connector, printed wiring: 4 contacts 5 amps; sim to Molex 09-60-1041.
J904	19A116659P105	Connector, printed wiring: 6 contacts 5 amps; sim to Molex 09-60-1061.
J905 and J906	19A116659P101	Connector, printed wiring: 3 contacts 5 amps; sim to Molex 09-60-1031.
J907	19A116659P106	Connector, printed wire: 7 contacts 5 amps; sim to Molex 09-60-1071.
J908	19A116659P104	Connector, printed wiring: 5 contacts; Molex 09-60-1051.
J925	4033513P4	Contact, electrical: sim to Bead Chain
J933	4033513P4	Contact, electrical: sim to Bead Chain
J950	4033513P4	Contact, electrical: sim to Bead Chain
J951 and J952	19A701785P1	Contact, electrical; sim to Molex 08-50
J953	4033513P4	Contact, electrical: sim to Bead Chain
J961 and J962	19A116659P127	Connector, printed wiring: 5 contacts; Molex 09-64-1051.
J963	4033513P4	Contact, electrical: sim to Bead Chain
----- TRANSISTORS -----		
Q901	19A115852P1	Silicon, PNP; sim to Type 2N3906.
Q902 thru Q904	19A115910P1	Silicon, NPN; sim to Type 2N3904.
Q905	19A116774P1	Silicon, NPN; sim to Type 2N5210.
Q906*	19A116742P2	Silicon, NPN.
	19A116742P1	Earlier than REV A: Silicon, NPN.
Q907*	19A116742P2	Silicon, NPN.
	19A116118P1	Earlier than REV A: Silicon, NPN.
Q908	19A115910P1	Silicon, NPN; sim to Type 2N3904.
----- RESISTORS -----		
R901	19B209358P106	Variable, carbon film: approx 300 to 10K $\pm 10\%$, 1/4 w; sim to CTS Type X-201.
R902	3R152P302J	Composition: 3K ohms $\pm 5\%$, 1/4 w.
R903	3R152P511J	Composition: 510 ohms $\pm 5\%$, 1/4 w.
R904	19A700106P97	Composition: 27K ohms $\pm 5\%$, 1/4 w.
R905	19A700106P31	Composition: 47 ohms $\pm 5\%$, 1/4 w.
R906	3R152P512J	Composition: 5.1K ohms $\pm 5\%$, 1/4 w.
R907	19A700106P83	Composition: 6.8K ohms $\pm 5\%$, 1/4 w.
R908 thru R910	19A700106P87	Composition: 10K ohms $\pm 5\%$, 1/4 w.
R911	3R152P512J	Composition: 5.1K ohms $\pm 5\%$, 1/4 w.
R912	19A700106P83	Composition: 6.8K ohms $\pm 5\%$, 1/4 w.
R913	19A700106P71	Composition: 2.2K ohms $\pm 5\%$, 1/4 w.
R914	19A700106P77	Composition: 3.9K ohms $\pm 5\%$, 1/4 w.
R915	3R152P910J	Composition: 91 ohms $\pm 5\%$, 1/4 w.
R916	19A700106P69	Composition: 1.8K ohms $\pm 5\%$, 1/4 w.
R917	19A700106P99	Composition: 33K ohms $\pm 5\%$, 1/4 w.
R918	3R152P113J	Composition: 11K ohms $\pm 5\%$, 1/4 w.
R919	19A700106P99	Composition: 33K ohms $\pm 5\%$, 1/4 w.
R920	19A700106P79	Composition: 4.7K ohms $\pm 5\%$, 1/4 w.
R921	3R152P202J	Composition: 2K ohms $\pm 5\%$, 1/4 w.

PT NO.	DESCRIPTION	SYMBOL	GE PART NO.	DESCRIPTION
	----- JACKS AND RECEPTACLES -----			
9P105	Connector, printed wiring: 6 contacts rated at 5 amps; sim to Molex 09-60-1061.	R922	19A700106P85	Composition: 8.2K ohms $\pm 5\%$, 1/4 w.
9P103	Connector, printed wiring: 4 contacts rated at 5 amps; sim to Molex 09-60-1041.	R923	19A700106P43	Composition: 150 ohms $\pm 5\%$, 1/4 w.
9P105	Connector, printed wiring: 6 contacts rated at 5 amps; sim to Molex 09-60-1061.	R924	19A700106P19	Composition: 15 ohms $\pm 5\%$, 1/4 w.
9P101	Connector, printed wiring: 3 contacts rated at 5 amps; sim to Molex 09-60-1031.	R925	3R152P820K	Composition: 82 ohms $\pm 5\%$, 1/4 w.
9P106	Connector, printed wire: 7 contacts rated at 5 amps; sim to Molex 09-60-1071.	R926	7147161P19	Composition: 1.0 ohm $\pm 5\%$, 1/2 w.
9P104	Connector, printed wiring: 5 contacts; sim to Molex 09-60-1051.	R927	3R152P241J	Composition: 240 ohms $\pm 5\%$, 1/4 w.
4	Contact, electrical: sim to Bead Chain L93-3.	R928	19A701250P349	Metal film: 31.6K ohms $\pm 1\%$, 250 VDCW, 1/4 w.
4	Contact, electrical: sim to Bead Chain L93-3.	R929	19A701250P309	Metal film: 12.1K ohms $\pm 1\%$, 250 VDCW, 1/4 w.
4	Contact, electrical: sim to Bead Chain L93-3.	R930	19A701250P287	Metal film: 7.87K ohms $\pm 1\%$, 250 VDCW, 1/4 w.
5P1	Contact, electrical; sim to Molex 08-50-0404.	R931	19A701250P283	Metal film: 7.15K ohms $\pm 1\%$, 250 VDCW, 1/4 w.
4	Contact, electrical: sim to Bead Chain L93-3.	R932	19A700106P105	Composition: 56K ohms $\pm 5\%$, 1/4 w.
9P127	Connector, printed wiring: 5 contacts; sim to Molex 09-64-1051.	R933	19A700113P47	Composition: 220 ohms $\pm 5\%$, 1/2 w.
4	Contact, electrical: sim to Bead Chain L93-3.	R934	3R152P511J	Composition: 510 ohms $\pm 5\%$, 1/4 w.
	----- TRANSISTORS -----	R935	3R77P511J	Composition: 510 ohms $\pm 5\%$, 1/2 w.
2P1	Silicon, PNP; sim to Type 2N3906.	R936	19A700106P87	Composition: 10K ohms $\pm 5\%$, 1/4 w.
2P1	Silicon, NPN; sim to Type 2N3904.	R937	3R152P433J	Composition: 43K ohms $\pm 5\%$, 1/4 w.
2P1	Silicon, NPN; sim to Type 2N5210.	R938	19A700106P63	Composition: 1K ohms $\pm 5\%$, 1/4 w.
2P2	Silicon, NPN.	R939	3R77P511J	Composition: 510 ohms $\pm 5\%$, 1/2 w.
2P1	Earlier than REV A:			----- THERMISTORS -----
2P2	Silicon, NPN.	RT901	5490828P38	Thermistor: 1400 ohms $\pm 5\%$, color code green and white; sim to Carborundum Type 723H-2.
2P1	Earlier than REV A:	RT902	19C300048P7	Thermistor, disc: 50K ohms $\pm 10\%$; sim to NL Industries 1D103.
2P1	Silicon, NPN.	RT903	19C300048P5	Thermistor, disc: 200K ohms $\pm 10\%$, sim to NL 4D 051.
2P1	Silicon, NPN; sim to Type 2N3904.			----- INTEGRATED CIRCUITS -----
	----- RESISTORS -----	U901	19D416560G3	Hybrid Squelch.
2P106	Variable, carbon film: approx 300 to 10K ohms $\pm 10\%$, 1/4 w; sim to CTS Type X-201.			----- VOLTAGE REGULATORS -----
J	Composition: 3K ohms $\pm 5\%$, 1/4 w.	VR901	4036887P9	Silicon, zener.
J	Composition: 510 ohms $\pm 5\%$, 1/4 w.	VR902	19A115528P6	Silicon, zener.
P97	Composition: 27K ohms $\pm 5\%$, 1/4 w.	VR903	4036887P8	Zener: 500 mW, 11 v. nominal.
P31	Composition: 47 ohms $\pm 5\%$, 1/4 w.			----- MISCELLANEOUS -----
J	Composition: 5.1K ohms $\pm 5\%$, 1/4 w.	19A137220G1		Heat sink. (Used with Q906, Q907).
P83	Composition: 6.8K ohms $\pm 5\%$, 1/4 w.	19A700068P1		Insulator, bushing. (Used with Q906, Q907).
P87	Composition: 10K ohms $\pm 5\%$, 1/4 w.	19A116023P1		Insulator, plate, Dupont 300 Kapton H. (Used with Q906, Q907).
J	Composition: 5.1K ohms $\pm 5\%$, 1/4 w.	19A137219G1		Heat sink. (Used with AR901).
P83	Composition: 6.8K ohms $\pm 5\%$, 1/4 w.	19A143578P52		Spacer, threaded. (Used with AR901 - Quantity 2)
P71	Composition: 2.2K ohms $\pm 5\%$, 1/4 w.	4037072P5		Plug button. (Located by J908).
P77	Composition: 3.9K ohms $\pm 5\%$, 1/4 w.	19B200525P205		Rivet, tubular. (Secures Q906, Q907, Heat Sink)
J	Composition: 91 ohms $\pm 5\%$, 1/4 w.			
P69	Composition: 1.8K ohms $\pm 5\%$, 1/4 w.			
P99	Composition: 33K ohms $\pm 5\%$, 1/4 w.			
J	Composition: 11K ohms $\pm 5\%$, 1/4 w.			
P99	Composition: 33K ohms $\pm 5\%$, 1/4 w.			
P79	Composition: 4.7K ohms $\pm 5\%$, 1/4 w.			
J	Composition: 2K ohms $\pm 5\%$, 1/4 w.			