Customer_____

G. E. Req. No._____

Customer Order No._____

INSTRUCTIONS

FOR

GENERAL ELECTRIC 100 CALL DISPATCHER

MODEL 4EC40A1
REV. C

LBI-10405
DF-5015

GENERAL ELECTRIC

COMMUNICATION PRODUCTS DEPARTMENT
LYNCHBURG, VIRGINIA

Printed in U.S.A.

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GENERAL ELECTRIC 100 CALL DISPATCHER
MODEL 4EC40A1

Tone Dispatcher Model 4EC40A1 is a selective signaling unit which provides a means of alerting any one or all of the mobile units in a system by transmitting audio tones at various frequencies corresponding to codes assigned to the mobile units. The 4EC40A1 is a self-contained tone dispatch console capable of signaling up to 100 individual units, one or more groups of units, or all units in a system.

The tone dispatcher is a tone generating and switching device permitting the selection of 100 combinations of two sequential audio frequency tones, with provision for keying the station ratio transmitter which, in turn, transmits the tones for a pre-determined period.

Power is provided by a self-contained AC power supply. Provision for connecting a 12-volt battery is included for use in case of emergency. A diode switch in the power supply circuit allows the battery to take over automatically in the event of power line failure.

INSTALLATION

Position the dispatcher in a location convenient for the operator. Connect the line cord to the nearest 117-volt, 50/60-cps outlet. The 10-foot output cable connects to J1221 and to the station audio input circuit. The microphone cable connects to J1222. The microphone and output jacks on the dispatcher are compatible with General Electric Progress Line Station Combinations.

The emergency battery may be connected permanently to TB1201. Accidental reversing of the battery leads will cause no damage or blown fuses. No provision is made for charging the battery; thus periodic checks of the battery condition are necessary and separate facilities for battery charging should be available.

The dispatcher is supplied with an 'L' pad (R1246 and R1247) in the tone output circuit. This pad limits the tone to approximately 25 millivolts. R1246 may be clipped out of the circuit if more output is required.

ADJUSTMENT

Tone Level

Each tone generator must be adjusted individually in the dispatcher to the level necessary to properly modulate the transmitter. These adjustments are made on the basis of each tone being adjusted to equal voltage levels. This voltage is measured at the radio transmitter and equals that voltage required when a 967.5-cps generator produces a 3-KC swing in narrow band transmitters or a 6-KC swing in wide band transmitters.

1. The transmitter must be adjusted for full limiting at 5.0 KC (narrow band) or 13 KC (wide band). Refer to the transmitter instructions.

2. Release all push-buttons on the dispatcher.

3. Depress B9. This will be the highest tone frequency used in the system.

4. Test switch S1207 by-passes the timing circuits and permits transmission of the selected tones in the B group continuously for these adjustments. The test switch should be released periodically while making the adjustments, in keeping with the rated duty cycle of the transmitter.

5. Adjust the level potentiometer (R7) on the top of the tone generator to a position 10° of rotation from its minimum position.

6. Place the test switch (S1207) in the TEST position. Adjust the master level potentiometer (R1201) to produce a deviation of 3 KC (narrow band) or 6 KC (wide band) as measured with a modulation monitor at the transmitter. Do not exceed this deviation. Measure the r.m.s. tone voltage at the radio transmitter. Note reading.

7. Release B9. Select another tone frequency in the B group. Adjust the level potentiometer (R7) on this generator to produce the same amount of tone voltage at the radio transmitter as noted in Step 6.

8. Selecting one tone frequency at a time in the B group, set R7 on each generator to obtain the same tone voltage as obtained in Step 6.

9. Release S1207.

10. Operate the TEST switch (S1203) for the A group and adjust each tone in the A group for the same voltage as obtained in Step 6.

NOTE: The procedure for adjusting the dispatcher for use with the EC-28 Remote Control unit is the same as outlined above. The EC-28 should be properly adjusted according to instructions in the RC-4 Instruction Book. Once this unit has been adjusted, and the tone levels set as outlined above, the MIKE level control in the EC-28 should not be changed.

Timing

1. Adjust R1202 for approximately 1 second. This is the tone "ON" time for the first tone.

2. Adjust R1211 for approximately 1-1/2 seconds. This is the tone "ON" time for the second tone.

OPERATION

The dispatcher has two vertical rows of pushbuttons on the front panel. One button in each row must be used for each call, as each function is composed of two sequential tones. To signal the unit he is calling, the operator selects the proper combination of buttons indicated by the assigned tone frequencies.

After selecting the proper combination, the operator presses the SEND switch which automatically transmits the selected tones. Once the SEND switch has been depressed, the timing circuit takes over the transmission and the duration of holding down the SEND switch has no effect on the timing of the tone transmission.

CIRCUIT DESCRIPTION

Tone Generator

The tone generator (PL-19B200236) consists of a transistorized oscillator circuit utilizing a vibrating-reed tone governing device that provides the frequency selective component of the oscillator circuit, and also provides feedback for proper oscillator operation.

Energy is coupled from the collector of Q1 to terminals 1 and 2 of the tone governing device, where transformer action between the two coils takes place, returning the energy to the base of Q1. The vibrating reed responds only to the specific frequency to which it is resonant; therefore, only the desired frequency appears at the output jack P1. R7 provides an adjustment of the output level.

Twenty tone generators, each resonant to a specific audio frequency, are operated continuously when power is applied to the dispatcher. Selector switches S1204 and S1205 are interlocked so that only one tone generator may be selected in each bank at one time.

Tone Amplifier

The selected tones are fed from the selector switches, through the timing relays, to the input of the tone amplifier, Q1201. The output of Q1201 is coupled through a filter consisting of C1205-C1210, L1201 and L1202. This filter suppresses harmonics. The tone signals are fed from the filter, through master level control R1210, to the transmitter jack J1221.

Timing Circuit

Once the tone transmission is initiated by closing the momentary contacts of SEND switch S1202, a timing circuit controls the duration of the transmission regardless of how long S1202 is held down.

Timing capacitor C1211 is normally charged through contacts 11 and 12 of K1203, through the normally closed contacts of S1202, and through R1208 to the regulated 11 volts positive from the power supply. When the SEND switch, S1202, is operated, C1211 discharges through R1202 into the base of Q1202. Q1202 conducts. K1201 is then operated by Q1202. K1201 remains operated until C1211 is discharged. R1202 provides adjustment of the time constant of this circuit.

When K1201 operates, the following events take place:

a) The regulated positive 11 volts is connected through K1201 contacts 5 and 6 to R1251 and R1250. This voltage is applied to the base of Q1204, causing the transistor to turn on and operate K1203.

b) The first tone is connected through K1201 contacts 7 and 8 to the tone amplifier.

c) C1212 is charged through K1201 contacts 13 and 14, through R1212, to the positive voltage. The return circuit is completed through contacts 1 and 2 of S1202.

When K1201 releases, C1212 is connected through K1201-12 and 13, through R1249, thus charging C1247. In approximately 150 milliseconds, C1247 has sufficient charge to turn on Q1203. This in turn operates K1202.

When K1202 operates, the following events take place:

a) The second tone is connected through K1202 contacts 7 and 8 to the tone amplifier.

b) The positive voltage is connected to the base of Q1204 through K1202-5 and 6. The transistor holds K1203 operated.

c) Charged capacitor C1248 is connected through K1202-13 and 14, through R1211 (the timing adjustment potentiometer) to the base of Q1203. This provides additional ON time for K1202.

Because of the presence of C1246 in the base circuit of Q1204, K1203 does not drop out during the 150 millisecond interval between the drop out of K1201 and the operation of K1202.

When K1203 is operated, the following events take place:

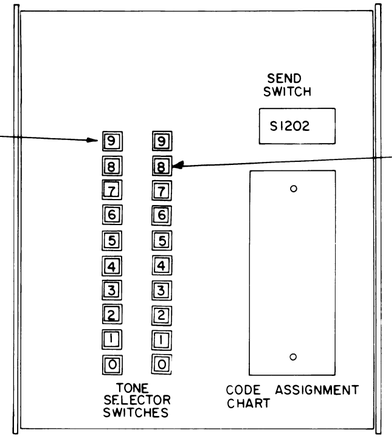
a) A ground is provided through K1203 contacts 6 and 7 to key the radio transmitter.

b) K1203 contacts 9 and 10 switch the panel lights from white to red. This indicates that tone is being transmitted.

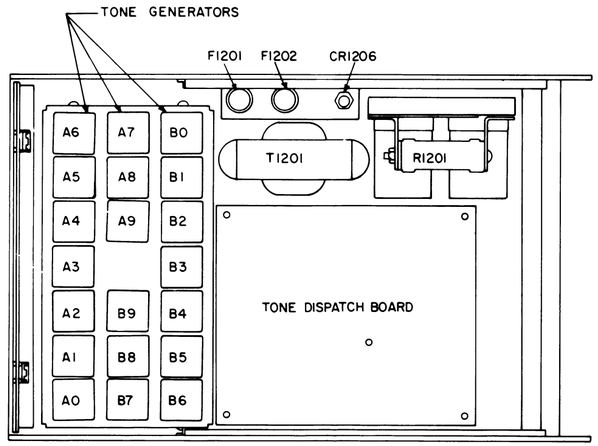
c) The transmitter input is switched from the microphone to the tone output of the dispatcher through contacts 14, 15 and 16.

d) The timing cycle is "locked-in" and the SEND switch (S1202) is disconnected through contacts 11, 12 and 13, so that the timing of the transmission will not be effected by the manual operation of the SEND switch.

TONE FREQUENCY CHART			
PUSHBUTTON NO.	P1 SERIES 0	P2 SERIES 1	P3 SERIES 2
A0	892.5	562.5	532.5
A1	877.5	607.5	547.5
A2	862.5	622.5	577.5
A3	847.5	652.5	592.5
A4	832.5	667.5	637.5
A5	817.5	697.5	682.5
A6	802.5	742.5	727.5
A7	787.5	787.5	772.5
A8	772.5	832.5	817.5
A9	757.5	877.5	862.5



TONE FREQUENCY CHART			
PUSHBUTTON NO.	P1 SERIES 0	P2 SERIES 1	P3 SERIES 2
B0	517.5	712.5	712.5
B1	532.5	757.5	757.5
B2	547.5	802.5	802.5
B3	562.5	847.5	847.5
B4	577.5	892.5	892.5
B5	592.5	907.5	907.5
B6	607.5	922.5	922.5
B7	622.5	937.5	937.5
B8	637.5	952.5	952.5
B9	652.5	967.5	967.5



TOP VIEW WITH COVER REMOVED

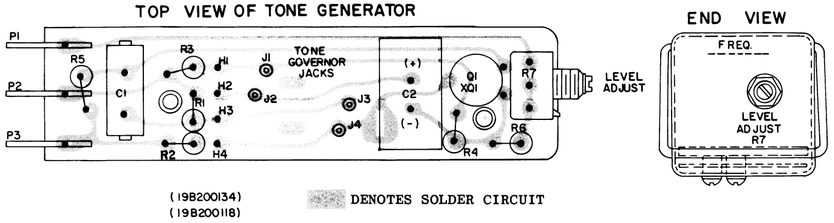
TO DETERMINE FREQUENCY LISTED IN TONE FREQUENCY CHARTS (ABOVE), CHECK THE TONE GENERATOR FREQUENCIES AS TO THEIR LOCATION ON THE TONE GENERATOR MOUNTING PANEL (AT LEFT).

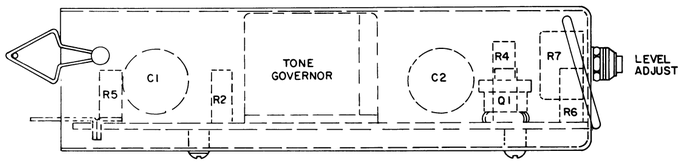
2153

Application Diagram

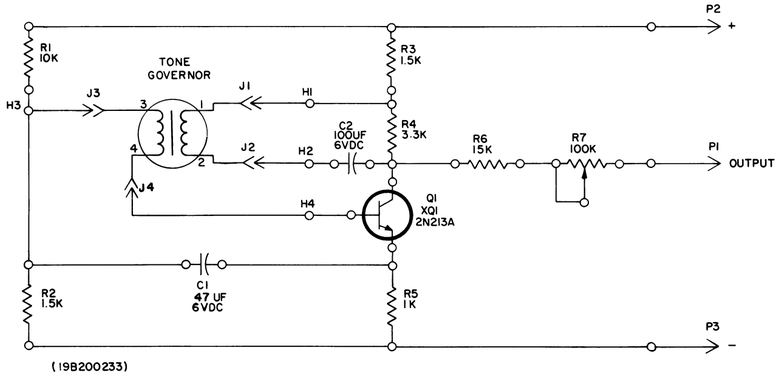
100 CALL DISPATCHER
MODEL 4EC40A1, REV. C

(RC-697D)





SIDE VIEW OF TONE GENERATOR



ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED AND RESISTOR VALUES IN OHMS UNLESS FOLLOWED BY K=1000 OHMS OR MEG=1,000,000 OHMS. CAPACITOR VALUES IN PICOFARADS (EQUAL TO MICROMICROFARADS) UNLESS FOLLOWED BY UF= MICROFARADS. INDUCTANCE VALUES IN MICROHENRYS UNLESS FOLLOWED BY MH= MILLIHENRYS OR H=HENRYS.

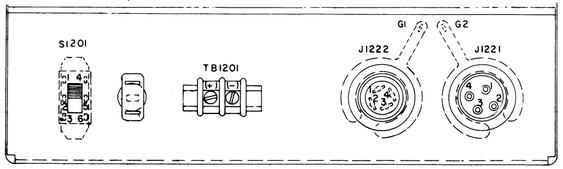
CPD 310A

15183

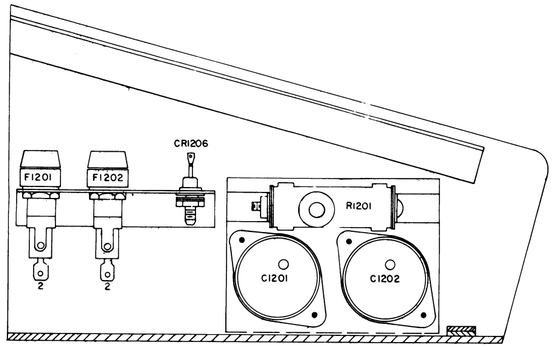
Service Outline

TONE GENERATOR
PL-19B200236

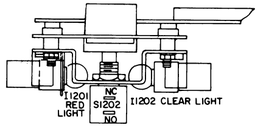
(RC-835C)



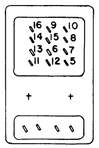
REAR PANEL OF DISPATCHER



SIDE VIEW OF DISPATCHER COMPONENT

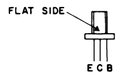


SIDE VIEW OF SEND SWITCH ASSEMBLY



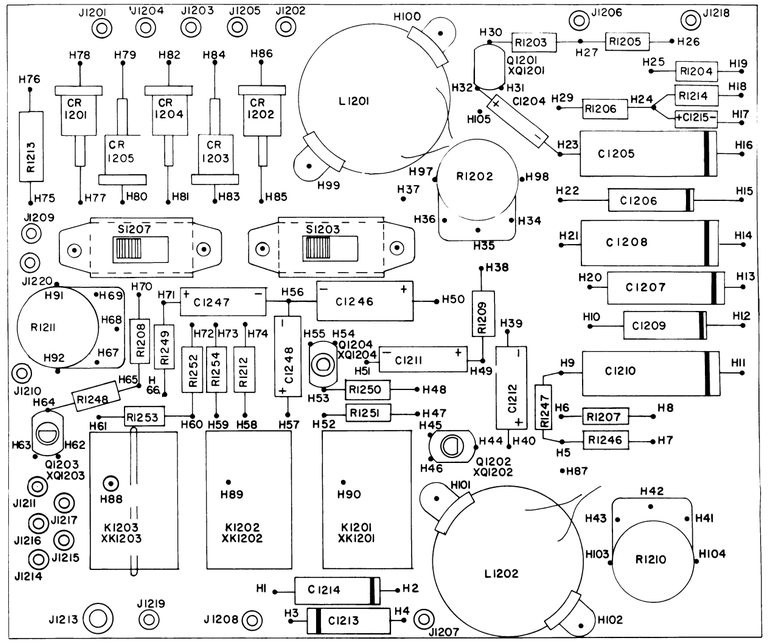
BOTTOM VIEW OF XK1201-2-3

BOTTOM VIEW OF S1203 & 7



LEAD FORMING FOR Q1202, Q1203, Q1204

TYP SOCKET FOR XQ1202, XQ1203, XQ1204



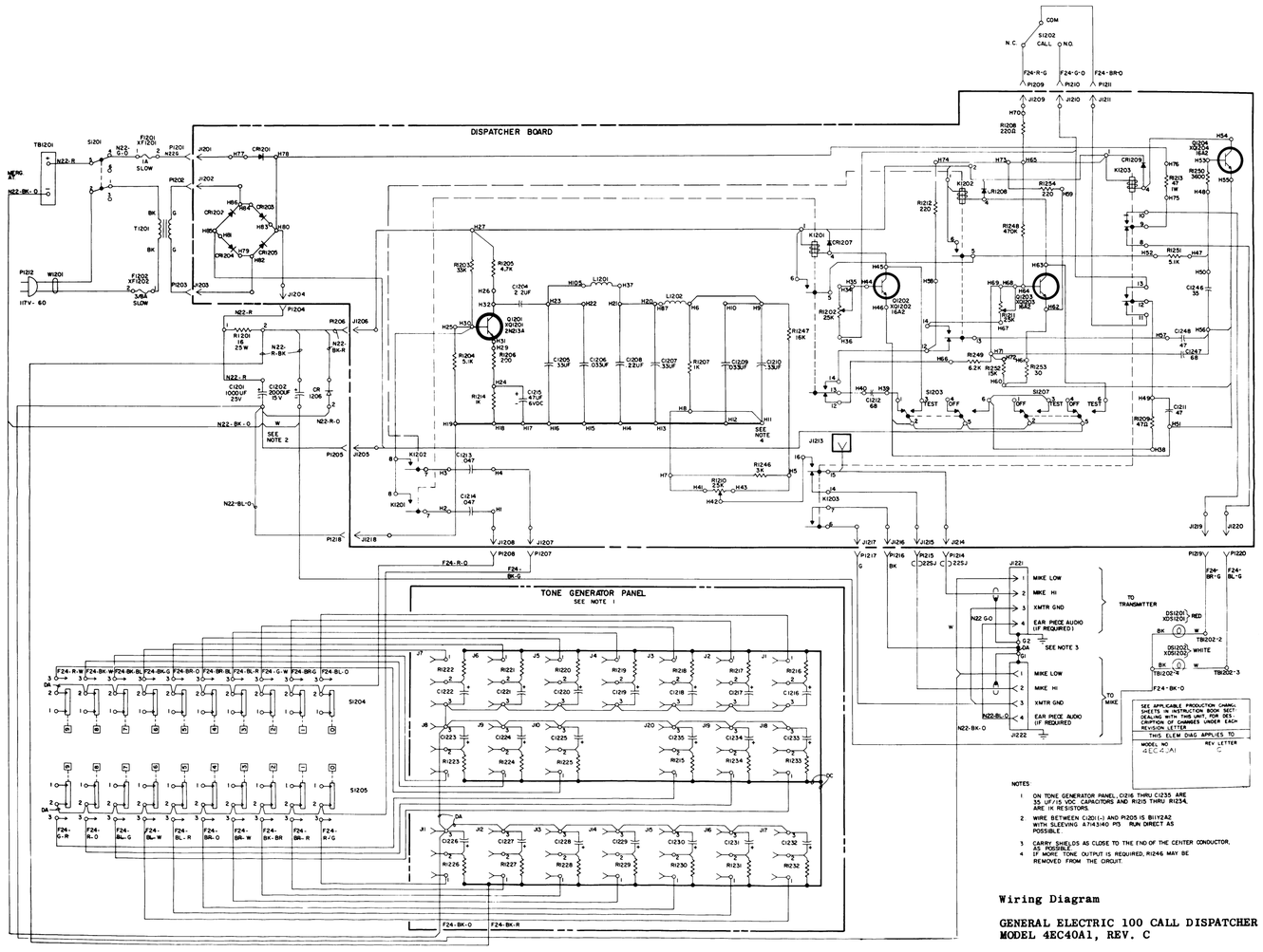
TONE DISPATCHER BOARD PL-19C303306-G1

9153

Service Outline

DISPATCHER BOARD
PL-5496988-G1

(RC-698C)



Wiring Diagram

GENERAL ELECTRIC 100 CALL DISPATCHER
MODEL 4EC40A1, REV. C

(E-5499324, Rev. 2)

PARTS LIST

100 CALL DISPATCHER
MODEL 4EC40A1
PL-5499273-G1
REV C

SYMBOL	G-E PART NO.	DESCRIPTION
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C1201	7476442-P12	Dry electrolytic, twist-prong: 1000 µf +250% -10%, 25 VDCW; sim to PR Mallory WP059.
C1202	7770994-P11	Dry electrolytic, twist-prong: 2000 µf +250% -10%, 15 VDCW; sim to PR Mallory WP.
C1204 thru C1215		(Included in PL-19C303306-G1 only).
C1246 thru C1248		(Included in PL-19C303306-G1 only).
		- - - - - - - - - - RECTIFIERS - - - - - - - - - -
CR1201 thru CR1205		(Included in PL-19C303306-G1 only).
CR1206	5495912-P1	Silicon, Zener.
CR1207 thru CR1209		(Included in PL-19C303306-G1 only).
		- - - - - - - - - INDICATING DEVICES - - - - - - - - -
DS1201	4036294-G1	Indicator light assm. Includes red incandescent lamp with min. bay. base. G-E Type 53.
DS1202	19C307037-P3	Lamp, incandescent: clear; sim to G-E 53.
		- - - - - - - - - - - FUSES - - - - - - - - - - -
F1201	7487942-P5	Slow blowing: 1-1/4 x 1/4 (3AG), 1 amp at 250 v; sim to Bussmann MDL-1.
F1202	7487942-P2	Slow blowing: 1-1/4 x 1/4 (3AG), 3/8 amp at 250 v; sim to Bussmann MDL-3/8.
		- - - - - - - - JACKS AND RECEPTACLES - - - - - - - -
J1201 thru J1211		(Included in PL-19C303306-G1 only).
J1213 thru J1220		(Included in PL-19C303306-G1 only).
J1221	7117934-P4	Connector, chassis: 4 male cont; sim to Amphenol 91-PC4M.
J1222	7117934-P2	Connector, chassis: 4 female cont; sim to Amphenol 91-PC4F.
		- - - - - - - - - - - RELAYS - - - - - - - - - - -
K1201 thru K1203		(Included in PL-19C303306-G1 only).
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L1201 and L1202		(Included in PL-19C303306-G1 only).
		- - - - - - - - - - - PLUGS - - - - - - - - - - -
P1201		(Part of W1201).
P1202 and P1203	4029840-P1	Terminal: taper pin connector; sim to Amp 41854 or Kent 123946.
P1204 thru P1220	4029840-P2	Terminal: taper pin connector; sim to Amp 428272.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

SYMBOL	G-E PART NO	DESCRIPTION
		- - - - - - - - - - TRANSISTORS - - - - - - - - - -
Q1201 thru Q1204		(Included in PL-19C303306-G1 only).
		- - - - - - - - - - - RESISTORS - - - - - - - - - - -
R1201	2R14-P113	Wirewound: 16 ohms ±5%, 25 w, with brkt; sim to Ward Leonard K41383-3.
R1202 thru R1214		(Included in PL-19C303306-G1 only).
R1246 thru R1254		(Included in PL-19C303306-G1 only).
		- - - - - - - - - - SWITCHES - - - - - - - - - -
S1201	7145098-P1	Slide: DPDT, 3/4 amp at 125 VAC or 1/2 amp at 125 VDC; sim to Stackpole SS-150.
S1202	19B200007-P1	Push button: snap action, 15 amps at 0.125-250 vac; sim to Cherry Elec Series E13-23J.
S1203		(Included in PL-19C303306-G1 only).
S1204 and S1205	19C300108-P3	Push button: 10 button frame, single side, 1 form C cont, non-shorting; sim to Oak Mfg 80.
S1207		(Included in PL-19C303306-G1 only).
		- - - - - - - - - TRANSFORMERS - - - - - - - - -
T1201	5493743-P1	Power, filament, single phase: Pri: 117 v, 50/60 cy. Sec 1: 12.6 v ±3%, 2 amps.
		- - - - - - - - TERMINAL BOARDS - - - - - - - - -
TB1201	4035303-P2	Phenolic: 2 term; sim to Curtis Devel. EFT-2.
TB1202	7775500-P3	Phenolic: 4 term.
		- - - - - - - - - - - CABLES - - - - - - - - - - -
W1201	4036441-P3	Flamenol® cord set. Includes 9' cable with molded plastic plug (P1201); sim to G-E 2073-1.
		- - - - - - - - - - SOCKETS - - - - - - - - - -
XF1201 and XF1202	7115179-P1	Holder, fuse: 1/4 x 1-1/4 (3AG), 15 amps at 250 v; sim to Bussmann HKP.
XDS1201 and XDS1202	4032220-P1	Lamp: min. bay. base, 6" leads; sim to Drake N517.
XK1201 thru XK1203		(Included in PL-19C303306-G1 only).
XQ1201 thru XQ1204		(Included in PL-19C303306-G1 only).
		- - - - - - - - - SUBASSEMBLIES - - - - - - - - -
		DISPATCHER BOARD PL-19C303306-G1
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C1204	5496267-P13	Tantalum: 2.2 µf ±20%, 20 VDCW; sim to Sprague 150D225X0020A2.
C1205	7491930-P11	Mylar®, dielectric: 0.33 µf ±20%, 100 VDCW; sim to G-E 61F.
C1206	7491930-P7	Mylar®, dielectric: .033 µf ±20%, 100 VDCW; sim to G-E 61F.
C1207	7491930-P11	Mylar®, dielectric: 0.33 µf ±20%, 100 VDCW; sim to G-E 61F.
C1208	7491930-P10	Mylar®, dielectric: 0.22 µf ±20%, 100 VDCW; sim to G-E 61F.
C1209	7491930-P7	Mylar®, dielectric: .033 µf ±20%, 100 VDCW; sim to G-E 61F.
C1210	7491930-P11	Mylar®, dielectric: 0.33 µf ±20%, 100 VDCW; sim to G-E 61F.

SYMBOL	G-E PART NO	DESCRIPTION
		- - - - - - - - - SUBASSEMBLIES(Cont'd) - - - -
		- - - - - - - - - - CAPACITORS(Cont'd) - - - - -
C1211	5496267-P15	Tantalum: 47 µf ±20%, 20 VDCW; sim to Sprague 150D476X0020R2.
C1212	5496267-P11	Tantalum: 68 µf ±20%, 15 VDCW; sim to Sprague 150D686X0015R2.
C1213 and C1214	7491930-P8	Mylar®, dielectric: .047 µf ±20%, 100 VDCW; sim to G-E 61F.
C1215	5496267-P2	Tantalum: 47 µf ±20%, 6 VDCW; sim to Sprague 150D476X0006B2.
C1246	7489483-P10	Electrolytic tubular: 35 µf +100% -10%, 15 VDCW; sim to Sprague 30D169A1.
C1247	5496267-P11	Tantalum: 68 µf ±20%, 15 VDCW; sim to Sprague 150D686X0015R2.
C1248	5496267-P15	Tantalum: 47 µf ±20%, 20 VDCW; sim to Sprague 150D476X0020R2.
		- - - - - - - - - RECTIFIERS - - - - - - - - -
CR1201 thru CR1205	19A115145-P2	Silicon.
CR1207 thru CR1209	4037822-P1	Silicon.
		- - - - - - - JACKS AND RECEPTACLES - - - - - - -
J1201 thru J1211		(Included in PL-19C303297-G1 only).
J1213	4037265-P1	Jack, tip: stake-in, black molded phen; sim to Component Mfg Service A-1128.
J1214 thru J1220		(Included in PL-19C303297-G1 only).
		- - - - - - - - - - RELAYS - - - - - - - - - -
K1201 and K1202	19C307010-P4	Plug-in, min: 12 VDC, 185 ohms ±10%, 2 form A and 1 form C cont; sim to Allied Control T154W-3415.
K1203	19C300957-P2	Plug-in, min: 12 VDC, 185 ohms ±10%, 4 form C cont; sim to Allied Control T154X-316.
		- - - - - - - - - - INDUCTORS - - - - - - - - - -
L1201 and L1202	PL-19C300501-G 356	Ferrite coil assm, 622 turns.
		- - - - - - - - - - TRANSISTORS - - - - - - - - - -
Q1201	5492639-P2	Germanium, NPN.
Q1202 thru Q1204	19A115123-P1	Silicon, NPN.
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R1202	7491365-P103	Potentiometer, carbon film: 25,000 ohms ±20%, .05 w, mod. log. taper, slotted shaft; sim to CTS UPE-70.
R1203	3R77-P333J	Fixed composition: 33,000 ohms ±5%, 1/2 w.
R1204	3R77-P512J	Fixed composition: 5100 ohms ±5%, 1/2 w.
R1205	3R77-P472J	Fixed composition: 4700 ohms ±5%, 1/2 w.
R1206	3R77-P201J	Fixed composition: 200 ohms ±5%, 1/2 w.
R1207	3R77-P102J	Fixed composition: 1000 ohms ±5%, 1/2 w.
R1208	3R77-P221J	Fixed composition: 220 ohms ±5%, 1/2 w.
R1209	3R77-P470J	Fixed composition: 47 ohms ±5%, 1/2 w.
R1210 and R1211	7491365-P103	Potentiometer, carbon film: 25,000 ohms ±20%, .05 w, mod. log. taper, slotted shaft; sim to CTS UPE-70.
R1212	3R77-P221J	Fixed composition: 220 ohms ±5%, 1/2 w.
R1213	3R78-P470J	Fixed composition: 47 ohms ±5%, 1 w.
R1214	3R77-P102J	Fixed composition: 1000 ohms ±5%, 1/2 w.
R1246	3R77-P302J	Fixed composition: 3000 ohms ±5%, 1/2 w.

SYMBOL	G-E PART NO	DESCRIPTION
		- - - - - - - - - SUBASSEMBLIES(Cont'd) - - - -
		- - - - - - - - - - RESISTORS(Cont'd) - - - - -
R1247	3R77-P163J	Fixed composition: 16,000 ohms ±5%, 1/2 w.
R1248	3R77-P474J	Fixed composition: 0.47 megohm ±5%, 1/2 w.
R1249	3R77-P622J	Fixed composition: 6200 ohms ±5%, 1/2 w.
R1250	3R77-P362J	Fixed composition: 3600 ohms ±5%, 1/2 w.
R1251	3R77-P512J	Fixed composition: 5100 ohms ±5%, 1/2 w.
R1252	3R77-P153J	Fixed composition: 15,000 ohms ±5%, 1/2 w.
R1253	3R77-P300J	Fixed composition: 30 ohms ±5%, 1/2 w.
R1254	3R77-P221J	Fixed composition: 220 ohms ±5%, 1/2 w.
		- - - - - - - - - - SWITCHES - - - - - - - - - -
S1203	7145098-P1	Slide: DPDT, 0.75 amp at 125 VAC or 0.5 amp at 125 VDC; sim to Stackpole SS-150.
S1207	7145098-P1	Slide: DPDT, 0.75 amp at 125 VAC or 0.5 amp at 125 VDC; sim to Stackpole SS-150.
		- - - - - - - - - - SOCKETS - - - - - - - - - -
XK1201 thru XK1203	5491595-P5	Relay, tel: nylon, 16-cont, for chassis mtg, with grd spring; sim to Allied Control 30054-2.
XQ1201 thru XQ1204	5490277-P2	Transistor: 4-cont, low-loss mica-filled phenolic; sim to Elco 3305.
		- - - - - - - - - MISCELLANEOUS - - - - - - - - -
		EYELET BOARD PL-19C303297-G1
J1201 thru J1211	4033513-P4	Pin, contact: brass, cad. plated; sim to Bead Chain L93-3.
J1214 thru J1220	4033513-P4	Pin, contact: brass, cad. plated; sim to Bead Chain L93-3.

SYMBOL	G-E PART NO	DESCRIPTION
		TONE GENERATOR PL-19B200236-G1 thru G66
		(TONE GENERATOR BOARD PL-19B200134-G1 TONE GOVERNOR PL-19C300590)
		(Group No. determined by freq)
		TONE GENERATOR BOARD PL-19B200134-G2
		- - - - - - - - - - CAPACITORS - - - - - - - - - -
C1	5496267-P2	Tantalum: 47 µf ±20%, 6 VDCW; sim to Sprague 150D476X0006B2.
C2	7489483-P9	Electrolytic tubular: 100 µf +100% -10%, 6 VDCW; sim to Sprague 30D135A1.
		- - - - - - - JACKS AND RECEPTACLES - - - - - - -
J1 thru J4	4036040-P1	Pin, contact: silver; sim to American Brass 724.
		- - - - - - - - - - PLUGS - - - - - - - - - -
P1 thru P3	4036046-P1	Contact, pin: copper.
		- - - - - - - - - - TRANSISTORS - - - - - - - - - -
Q1	5492639-P2	Germanium, NPN.
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R1	3R77-P103J	Fixed composition: 10,000 ohms ±5%, 1/2 w.
R2 and R3	3R77-P152J	Fixed composition: 1500 ohms ±5%, 1/2 w.
R4	3R77-P332J	Fixed composition: 3300 ohms ±5%, 1/2 w.
R5	3R77-P102J	Fixed composition: 1000 ohms ±5%, 1/2 w.
R6	3R77-P153J	Fixed composition: 15,000 ohms ±5%, 1/2 w.
R7	19C300124-P2	Potentiometer, carbon film: 100,000 ohms ±20%, 1/16 w, linear taper, slotted shaft; sim to Mallory MLC.
		- - - - - - - - - - SOCKETS - - - - - - - - - -
XQ1	5490277-P2	Transistor: 4-cont, low-loss mica-filled phenolic; sim to Elco 3305.
		TONE GOVERNOR PL-19C300590
		Electromechanical resonant subassembly. Group No. determined by multiplying freq marked on can by 10. Example: 517.5 x 10 = Group No. 5175.
		PL-19C300590-G5175 517.5 PL-19C300590-G5325 532.5 PL-19C300590-G5475 547.5 PL-19C300590-G5625 562.5 PL-19C300590-G5775 577.5 PL-19C300590-G5925 592.5 PL-19C300590-G6075 607.5 PL-19C300590-G6225 622.5 PL-19C300590-G6375 637.5 PL-19C300590-G6525 652.5 PL-19C300590-G6675 667.5 PL-19C300590-G6825 682.5 PL-19C300590-G6975 697.5 PL-19C300590-G7125 712.5 PL-19C300590-G7275 727.5 PL-19C300590-G7425 742.5 PL-19C300590-G7575 757.5 PL-19C300590-G7725 772.5 PL-19C300590-G7875 787.5 PL-19C300590-G8025 802.5 PL-19C300590-G8175 817.5 PL-19C300590-G8325 832.5 PL-19C300590-G8475 847.5 PL-19C300590-G8625 862.5 PL-19C300590-G8775 877.5

SYMBOL	G-E PART NO	DESCRIPTION
		TONE GOVERNOR(Cont'd)
		PL-19C300590-G8925 892.5 PL-19C300590-G9075 907.5 PL-19C300590-G9225 922.5 PL-19C300590-G9375 937.5 PL-19C300590-G9525 952.5 PL-19C300590-G9675 967.5 PL-19C300590-G9825 982.5 PL-19C300590-G9975 997.5