### **OPTIONS**

#### **TABLE OF CONTENTS**

	<u>Page</u>
SPECIFICATIONS	1
OPTIONS	1
COMBINATION NOMENCLATURE	1
DESCRIPTION	2
CIRCUIT ANALYSIS	2
MAINTENANCE	3
TRANSMITTER KEYING & POWER DISTRIBUTION DIAGRAM	5
OUTLINE DIAGRAM	6
SCHEMATIC DIAGRAMS	
1 and 1-8 Frequency Control Unit	8
Optional 18-Conductor Power/Control Cable	11
MASTR II/Executive II Interface Power/Control Cable	11
MASTR DELTA Interface Cable	12
Control Unit To Delta Mobile Power/Control Cable	15
PARTS LIST	9
MICROPHONE AND HOOKSWITCH	13
SPEAKER	13
HANDSET AND HOOKSWITCH	14

## **SPECIFICATIONS\***

#### CONTROLS

Power-On Volume Squelch Channel Selector Switch (G4 only) **Option Switch** Optional Blanker Disable Switch

**INDICATORS** 

Power On Light Transmit Light Optional Channel Busy Light **Option Light** 

\* These specifications are intended primarily for the use of the serviceman. Refer to the appropriate Specification Sheet for the complete specifications.

WARNING

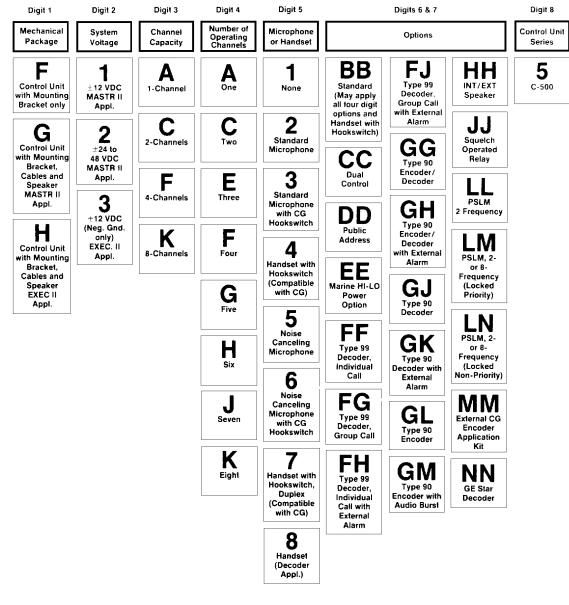
Although the highest DC voltage in the radio is supplied by the vehicle battery, high currents may be drawn under short circuit conditions. These currents can possibly heat metal objects such as tools, rings, watch bands, etc., enough to cause burns. Be careful when working near energized circuits!

High-Level RF energy in the transmitter Power Amplifier assembly can cause RF burns. KEEP AWAY FROM THESE CIRCUITS when the transmitter is energized!

Fixed Squelch (Option 9276) Channel Busy Light (Option 9277) Noise Blanker Switch (Option 9279) Universal Tone Jack (Option 9278) Extender Board (Option 9029) Window Mount Speaker Kit (Option 9053) Ignition Switch Standby Cable (Option 9065) Control Hump Mount Bracket (Option 9079) 33 Foot Ground Cable (Option 9081)

DESCRIPTION





Copyright © 1976, General Electric Company

MODEL NUMBER	
19A129567G3	
19A129567G6	
19A129567G7	
19A129567G17	
19G320588G1	
19A130023G1	
19B219537G1	
19A130889G1	
19A136690G1	

## DESCRIPTION

C-500 Series Control Units are attractively styled, highly functional units that are enclosed in a two-piece molded Lexan® housing for durability and ease of disassembly. The Control Units are mounted to the vehicle with a Safety Release Lexan® mounting bracket assembly for passenger safety.

The Control Unit uses a printed wiring board to provide a minimum of wiring. The only internal wires used are on the POWER-ON switch, indicator lights and jumpers for various options.

Cable plugs are secured to the back of the Control Unit by plastic locking clips. The plugs are equipped with indexing tabs to assure connection to the correct jack. The cable is equipped with a strain relief hook that attaches to a steel plate on the bottom rear of the Control Unit.

The microphone plug is secured to a jack on the bottom of the unit by means of a captive locking screw.

All indicator lights are light-emitting diodes (LEDs) for reliability, long life, and low power consumption.

In addition to MASTR<sup>™</sup> II applications the Control Unit can be applied to EXEC II applications through the use of the MASTR II/ EXEC II Interface Power/Control Cable.

### **CIRCUIT ANALYSIS**

The Control Units are equipped with a VOLUME control, SQUELCH control and a POWER-ON rocker switch. The multi-frequency Control Unit is also equipped with a frequency selector switch.

When the POWER-ON switch (S701) is in the OFF position, power is removed from the radio except for the transmitter PA, which is connected to the vehicle battery at all times. Pushing the switch to the ON position applies power to the radio, provides power for the push-to-talk (PTT) circuit and lights the power-on LED in the Power-ON/Frequency Indicator window.

Releasing the PTT switch turns off the transmitter and transmit indicator, de-energizes the antenna switch and unmutes the receiver. Refer to the Table of Contents for a simplified Transmitter Keying and Power Distribution Diagram.

CR701 and CR705 are protective diodes. CR701 will cause the fuse in the yellow lead to blow if the polarity is reversed. CR708 inhibits the PTT circuit if the polarity is reversed.

#### MULTI-FREQUENCY SWITCH (S703)

The frequency selector switch is a 12-position switch with a mechanical stop that limits rotation from one through eight positions as required.

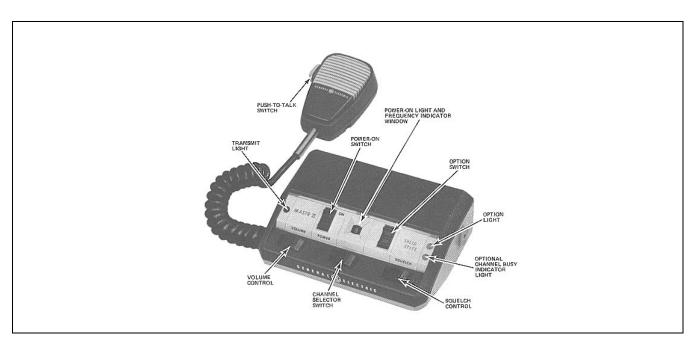


Figure 1 - Control Unit Layout

The frequency selector switch selects the desired channel for both transmitting and receiving. The switch connects A- to the selected transmitter and receiver ICOM so that the radio operates on the selected channel.

#### DC CONVERTER MODIFICATIONS (MASTR II ONLY)

In radios equipped with the DC converter, the POWER-ON switch is modified so that placing the switch in the ON position applies the input voltage directly to the DC converter. Instructions for the modification are shown on the control unit Schematic Diagram.

## **OPTIONS**

MASTR II control units may be equipped with different options. All controls and indicator lights (LEDs) are shown in Figure 1.

#### Channel Busy Indicator

When no signal is applied to the receiver, the Carrier Activity Sensor (CAS) voltage from the receiver squelch IC is near A-. This forward biases diode CR702 in the control unit, keeping Q701 turned off. When a signal is applied to the receiver (with or without audio), the CAS voltage rises to approximately 10 Volts. This reverse biases CR702, allowing Q701 to conduct, turning on Channel Busy Indicator CR706. The indicator will remain on as long as a signal is applied to the receiver, or until the transmitter is keyed.

#### Noise Blanker Disable Switch (MASTR II only)

Noise Blanker Disable switch S1 mounts on the back of the control unit (see Outline Diagram). Placing the switch in the "OFF" position applies A- to the blanker disable lead. The A- is connected to pin 4 of the receiver blanker IC (U551), disabling the noise blanker circuit. The A- is connected to the blanker disable circuit by a jumper from H63 to H66 on the system board (see Front Panel & System Board Maintenance Manual).

Placing the switch in the "ON" position removes the A- to pin 4 of the blanker IC, allowing the blanker to operate.

#### Fixed Squelch

In radios with the Fixed Squelch option, a two-position rotary switch replaces the standard variable squelch potentiometer. A squelch potentiometer is then mounted on J904 on the system board (see Front Panel & System Board Maintenance Manual). Turning the optional squelch switch on the Control Unit to the right applies A- to the squelch disable lead. The A-is connected to pin 2 of the receiver audio IC (U604), disabling the squelch circuit (and Channel Guard if present). Turning the switch to the left removes the A- to Pin 2 of the squelch IC, enabling the squelch circuit (and Channel Guard).

#### Internal/External Speaker

For radios equipped with the Internal/External Speaker option, the control unit will be equipped with optional SPEAKER switch (marked INT-EXT), an Option indicator light and an Internal/External Speaker component board. The radio also has an external speaker mounted outside the vehicle passenger compartment (on the roof, under the hood, etc).

With the switch in the INT (Internal) position, all of the messages received will be heard on the speaker mounted in the vehicle.

Placing the switch in the EXT (External) position turns on the option light, and applies all received messages to both the external and internal speaker. This allows the received messages to be heard while the operator is inside or outside of the vehicle.

For complete details, refer to the Maintenance Manual for the Internal/External Speaker option.

## Public Address (MASTR II only)

With the Public Address option, the control unit will be equipped with an optional PA-ON switch, an Option indicator light, and a Public Address component board. The vehicle will also have an additional speaker mounted outside of the passenger compartment.

With the PA switch in the "OFF" position, the operator can send and receive messages as he normally does. Placing the PA switch in the ON position lights the Option light, disables the transmitter, and switches the receiver audio output to the external speaker.

Pressing the PTT switch on the microphone switches the microphone output through the receiver audio amplifier circuit so that the amplified message is heard on the external speaker only. No messages can be transmitted in this mode of operation, and all incoming messages will be heard on the external speaker.

For complete details, refer to the Maintenance Manual for the Public Address option.

#### Priority Search-Lock Monitor

For radios equipped with Priority Search-Lock Monitor, (PSLM), the control unit will be equipped with a SEARCH-ON switch, a Channel Busy light, and a PSLM board.

With the SEARCH switch in the ON position, the PSLM provides two channel monitoring (depending on the PSLM option used) by alternately sampling a priority channel and then a non-priority channel.

When a signal is received on the priority channel, the PSLM stops searching and locks on the priority channel for the duration of the message. When a signal is first received on the non-priority channel, the PSLM stops on that channel while monitoring the priority channel. If a signal is received on the priority channel while the PSLM is stopped on the non-priority channel, the PSLM reverts to the priority channel and locks on that channel for the duration of the message.

NOTE

The PSLM will operate only when the receiver is squelched. When the receiver is unsquelched, the PSLM will lock on the first channel that receives a message.

The Channel Busy light will glow steadily whenever a message is received on the priority channel. When a message is received on a non-priority channel, the Channel Busy light will flash on and off. Keying the transmitter turns on the red Transmit light, and turns off the Channel Busy light.

Placing the SEARCH switch in the "OFF" position disables the PSLM circuit, and messages can be sent and received only on the channel selected by the frequency selector switch.

For complete details, refer to the Maintenance Manual for the Priority Search-Lock Monitor option.

#### Squelch Operated Relay

In radios equipped with the Squelch operated Relay option, the control unit will he equipped with an OPTION-ON switch, an option light and a Squelch Operated Relay component board.

When the switch is in the ON position, the relay will energize and the Option light will turn on each time a message is received (receiver unsquelches). The relay will remain locked up and the Option light will remain on until the OPTION switch is turned "OFF". The relay can be connected to turn on a light, operate an alarm or perform other functions as desired.

For complete details, refer to the Maintenance Manual for the Squelch Operated Relay option.

#### Type 99 Tone Decoders

Type 99 Tone equipment eliminates reception of unwanted calls through the use of a Sequential Tone Decoder. The equipment provides individual or group call capability using either two or four Versa-tone networks. (Versatone networks determine the tone frequencies that the unit responds to.

Decoder operation is controlled by the Monitor/Reset switch and/or Hookswitch. When the microphone or handset is removed from the hookswitch, the decoder is deactivated and the receiver reverts to noise squelch operation. Replacing the microphone or handset automatically resets the receiver to respond to only those calls properly tone coded. A Decoder Call Indicator will light each time a properly coded call is received.

An optional external alarm relay is controlled by the two position Option-ON switch. When a properly tone coded call is received and the Option switch is in the ON position, the relay will operate an external horn or light.

For complete details, refer to the Maintenance Manual for the Type 99 Tone Decoder option.

#### Type 90 Tone Encoder and Decoders

Type 90 Tone equipment provides tone coded message transmission to eliminate reception of unwanted calls. All Type 90 Tone Encoders and Decoders operate on a single tone selectable from ten standard frequencies between 1000 and 3000 Hz.

A single tone burst automatically precedes the first transmission in the standard unit. The tone burst is initiated by removing the microphone or handset from the hookswitch and keying the PTT. The Pushbutton Tone-on switch allows the tone to be sent manually if desired.

Decoder operation is controlled by the Monitor/Reset switch and/or Hookswitch. When the microphone or handset is removed, the receiver reverts to noise squelch operation. Replacing the microphone or handset, automatically resets the unit to the decode function. A Decoder Call Indicator will light each time a properly tone coded call is received.

An optional External Alarm Relay is control led by the Two Position Option-ON switch. When a properly tone coded call is received and the Option-ON switch is in the ON position, the Relay will operate an external horn or light.

For complete details, refer to the Maintenance Manual for the Type 90 Tone Encoder/Decoder option.

#### Dual Control

The Dual Control equipment allows the radio to be operated by either of two remotely located control units. Control is transferred between control units by depressing the Control switch on the control unit where control is desired.

When the Control switch is depressed, the Control Light indicates the unit with control. Control remains with this unit until the Dual Control switch on the second control unit is operated.

For complete details, refer to the Maintenance Manual for the Dual Control option.

#### Universal Tone Jack

The Universal Tone Jack (J750) mounts on the back of the control unit (see Outline Diagram). The nine pin jack provides interface connections between the control unit and external tone equipment.

#### Extender Board

Troubleshooting the component board options in the control unit is facilitated by using Extender Board 19C320588G1 (Option 9029). The Extender Board provides feed throughs for all connections between the control unit printed wire board and the option component hoard.

#### **12-VOLT IGNITION SWITCH** CONNECTIONS

In 12-Volt vehicle systems, the Control Unit may be connected for two different modes of operation, depending on the way the ignition switch cables are connected in the vehicle system. The black cable provides the system ground connection. The vellow fused lead provides the receiver hot connections and the transmitter Push-To-Talk hot connection. The two types of operation are:

- 1. Ignition Switch Control - For ignition switch control, the yellow fused lead connects to the ACCES-SORY or ON terminal of the ignition switch. The transmitter and receiver will operate only when the ignition switch is in the ACCESSORY or ON position. Turning the ignition switch OFF removes all power to the Control Unit.
- Ignition Switch Bypass For ignition switch by-2. pass, the yellow fused lead connects to the "hot" side of the ignition switch or the vehicle fuse block assembly. Both the transmitter and receiver operate independently of the ignition switch and are turned

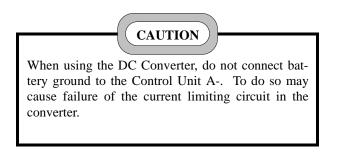
12-Volt Systems. MASTR II mobile combinations can operate in  $\pm 12$ -Volt systems. EXEC II mobile combinations operate in  $\pm 12$ -Volt (negative ground) systems only. If the radio is moved to a different vehicle, always check the battery polarity and voltage of the new system before using the radio.

## LBI-30239

on and off only by the POWER-ON switch on the Control Unit.

## **DC CONVERTER CONNECTIONS** (MASTR II ONLY)

For combinations equipped with the DC converter, a single red fused lead is used. The fused lead always connects to battery plus in either positive or negative ground systems.



## MAINTENANCE

### DISASSEMBLY

To gain access to the inside of the Control Unit, simply remove the two screws on the bottom of the front edge of the unit, and lift off the top cover.

To remove the printed wiring board from the control unit housing:

- 1. Remove the two screws holding the microphone iack.
- Remove the screw between J701 and J702 and re-2. move the screw between J702 and J703.
- Remove the screw at each end of the switch and 3 control mounting bracket.
- Remove the screw holding Power-On switch S701 to the bottom housing. Then swing the printed wiring board up from the front and lift the board out.

#### **RE-INSTALLATION**

If the radio is moved to a vehicle with different battery polarity, it will be necessary to change the ignition switch leads to the vehicle system plug (MASTR II only). Use the extraction tool as shown in Figure 2, and change the leads as shown in Figures 3 or 4 as required.

#### DC Converter Systems (MASTR II only)

For radios equipped with the DC Converter, no changes are required in the lead to the vehicle system plug.

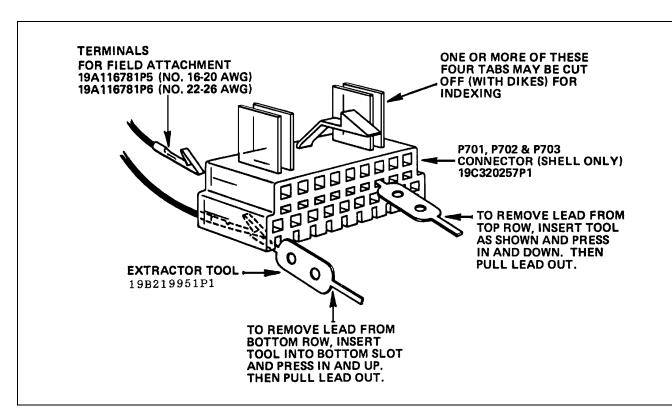


Figure 2 - Using Extraction Tool

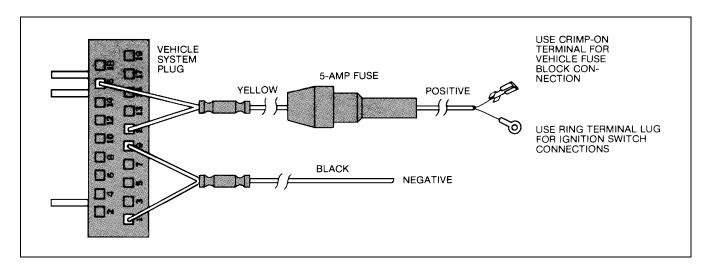


Figure 3 - 12-Volt, Negative Ground Connections

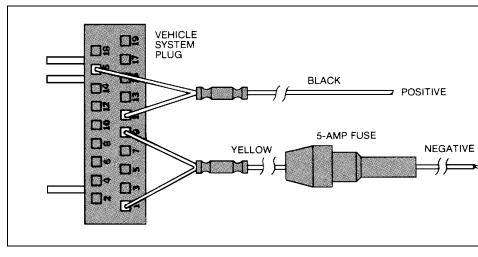
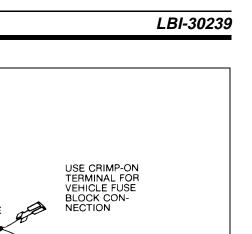
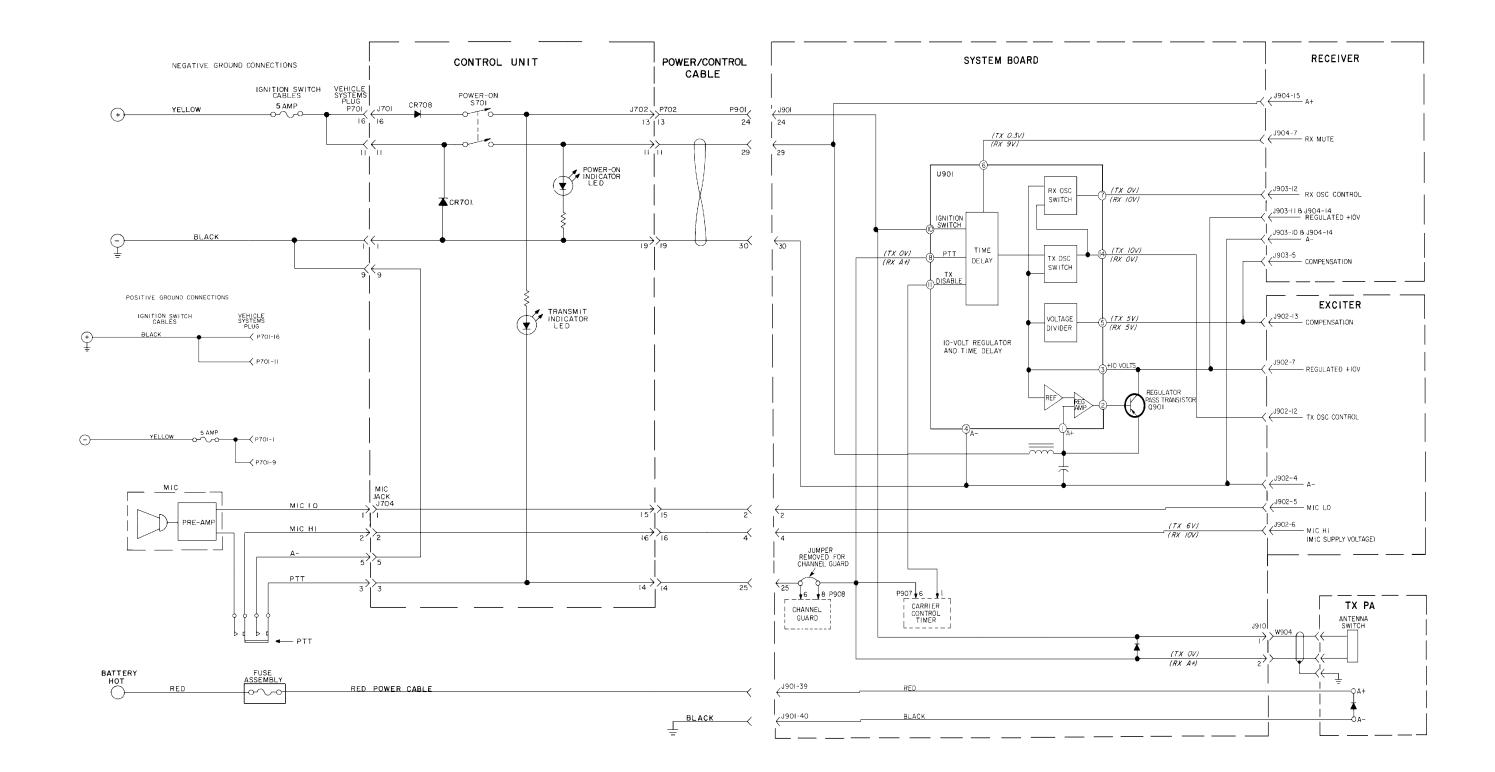


Figure 4 - 12-Volt, Positive Ground Connections (MASTR II only)



USE RING TERMINAL LUG FOR IGNITION SWITCH CONNECTIONS

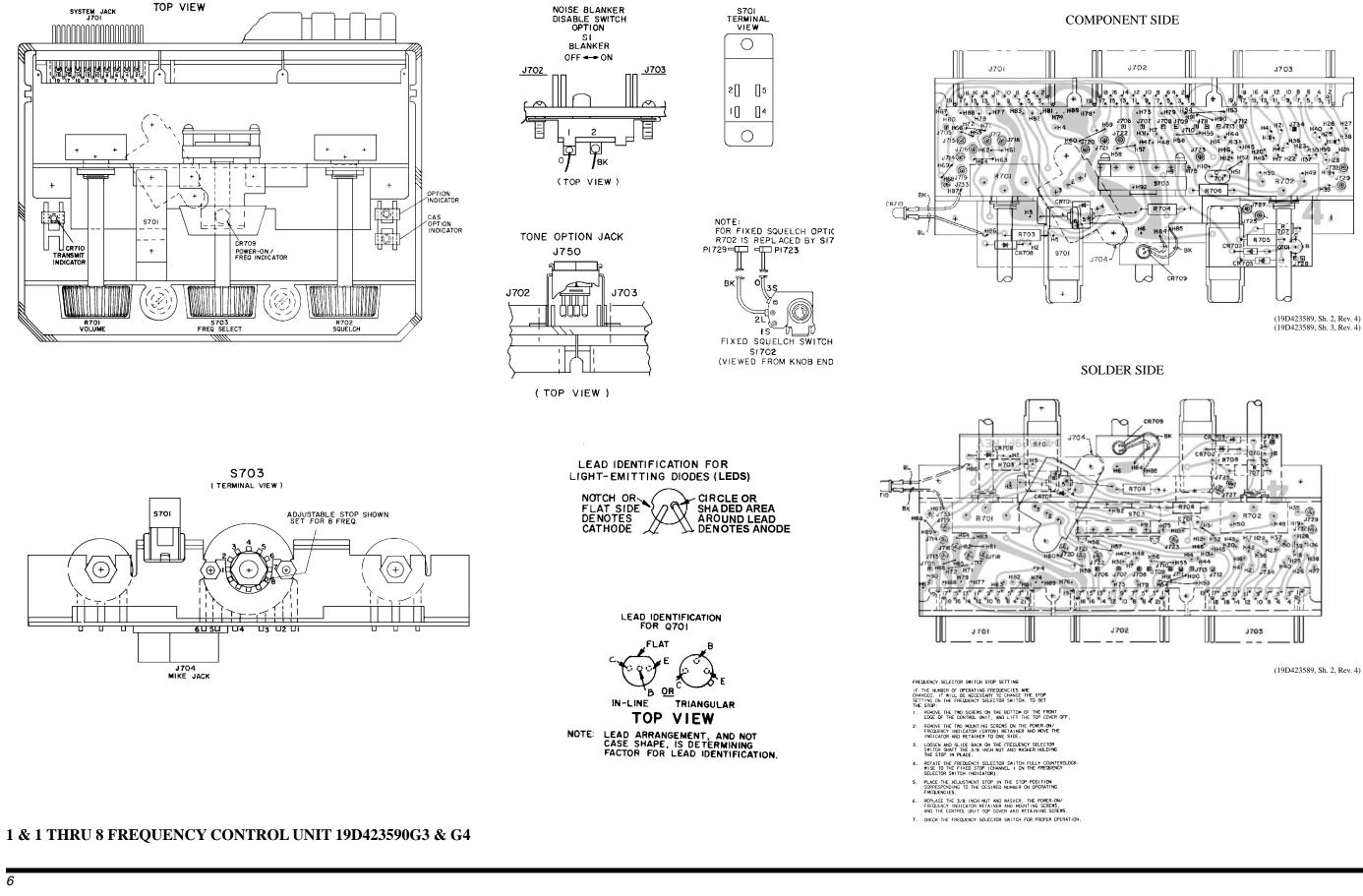
ত



## TRANSMITTER KEYING & POWER DISTRIBUTION DIAGRAM

LBI-30239

## OUTLINE DIAGRAM



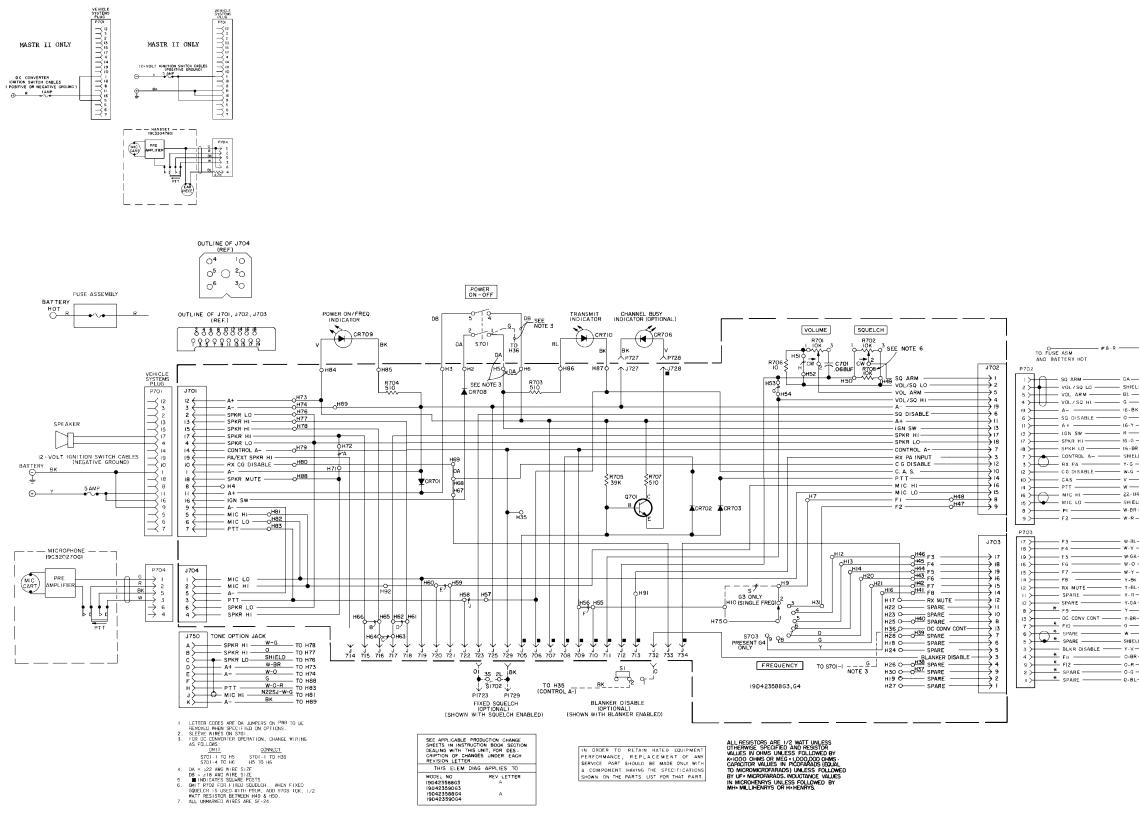
#### PARTS LIST

LBI 30256 F

C-500 SERIES CONTROL UNIT 19D423580G3 (1-FREQ) 19D423580G4 (8-FREQ) AND ASSOCIATED ASSEMBLIES

to MR751.           CR702 and CR703         19A115250P1         Silicon, fast recovery, 225 mA, 50 PIV.           CR708         4037822P1         Silicon, 1000 mA, 400 PIV.           I9B219800G3         Diode, red light emitting.          JACKS AND RECEPTACLES           J701         19B219800G3           J704         19B219627G1           Connector:         6 contacts.           J705         19A701785P1           Contact, electrical:         sim to Molex 08-50-0404.           MT23         J723           J724         4033513P4           Contact, electrical:         sim to Bead Chain L93-3.           J723         J403513P4           Contact, electrical:         sim to Bead Chain L93-3.           J725         4033513P4           Contact, electrical:         sim to Bead Chain L93-3.           J724         4033513P4           Contact, electrical:         sim to Molex 08-50-0404.           J729         4033513P4           Contact, electrical:         sim to Bead Chain L93-3.           J733         19A701785P1           Contact, electrical:         sim to Bead Chain L93-3.           J734         19A701785P1           Contact, electrical:         sim	SYMBOL	GE PART NO.	DESCRIPTION
C701         19A700234P12         Polyester: 0.068 uF ±10%, 50 VDCW.          DIODES AND RECTIFIERS         CR701         19A116783P1         Rectifier, silicon: 100 VDC blocking, 6 amp; sim to MR751.           CR702         19A115250P1         Silicon, fast recovery, 225 mA, 50 FIV.           add CR703         4037822P1         Silicon, fast recovery, 225 mA, 50 FIV.           1921980003         Diode, red light emitting.          JACKS AND RECEPTACLES           1901         196230257P2           Pin wafer assembly: 19 contacts.           19703           19821962761         Contact, electrical; sim to Molex 08-50-0404.           19714         4033513P4         Contact, electrical; sim to Bead Chain L93-3.           17723         194701785P1         Contact, electrical: sim to Bead Chain L93-3.           1725         4033513P4         Contact, electrical: sim to Molex 08-50-0404.           1727         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           1728         19A701785P1         Contact, electrical: sim to Molex 08-50-0404.           1729         4033513P4         Contact, electrical: sim to Molex 08-50-0404.           1729         4033513P4         Contact, electrical: sim to Molex 08-50-0404.           1729         4033513P4         Contact, electric			19D423588G3 (1-FREQ)
CR701         19A116783P1         Rectifier, silicon: 100 VDC blocking, 6 amp; sim to MR751.           CR702         19A115250P1         Silicon, fast recovery, 225 mA, 50 PIV.           CR703         4037822P1         Silicon, fast recovery, 225 mA, 50 PIV.           CR704         4037822P1         Silicon, fast recovery, 225 mA, 50 PIV.           CR705         4037822P1         Silicon, fast recovery, 225 mA, 50 PIV.           CR706         4037822P1         Silicon, fuon MA, 400 PIV.           CR707         19B219800G3         Diode, red light emitting.           J701         19B219627G1         Connector: 6 contacts.           J705         19A701785P1         Contact, electrical: sim to Molex 08-50-0404.           J714         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J725         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J728         19A701785P1         Contact, electrical: sim to Molex 08-50-0404.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J731         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J732         4033513P4         Contact, electrical: sim to Molex 08-50-0404.           J733         19A701785P1         Contact, electrical: sim to Molex 08-50-0404. <td></td> <td></td> <td> CAPACITORS</td>			CAPACITORS
CR701         19A116783P1         Rectifier, silicon: 100 VDC blocking, 6 amp; sim to MR751.           CR702         19A115250P1         Silicon, fast recovery, 225 mA, 50 PIV.           CR703         CR704         CR705           CR704         19B219800G3         Didde, red light emitting.           J701         19B219627G1         Connector: 6 contacts.           J705         19A701785P1         Contact, electrical: sim to Molex 08-50-0404.           J713         J714         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J725         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J728         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J731         194701785P1         Contact, electrical: sim to Bead Chain L93-3.           J732         4033513P4         Contact, electrical: sim to Molex 08-50-0404. <td>C701</td> <td>19A700234P12</td> <td>Polyester: 0.068 uF ±10%, 50 VDCW.</td>	C701	19A700234P12	Polyester: 0.068 uF ±10%, 50 VDCW.
to MR751.           CR702 and CR703         19A115250P1           Silicon, fast recovery, 225 mA, 50 PIV.           CR708         4037822P1           Silicon, 1000 mA, 400 PIV.           Diode, red light emitting.          JACKS AND RECEPTACLES           J701           19E32062772           Pin wafer assembly: 19 contacts.           J703           J704           19E21960701           Contact, electrical; sim to Molex 08-50-0404.           J713           J714           4033513P4           Contact, electrical: sim to Bead Chain L03-3.           J725           4033513P4           Contact, electrical: sim to Bead Chain L03-3.           J724           J725           4033513P4           Contact, electrical: sim to Bead Chain L03-3.           J728           J94701785P1           Contact, electrical: sim to Molex 08-50-0404.           J729           4033513P4           Contact, electrical: sim to Bead Chain L03-3.           J732           J733           J734           J9A701785P1           Contact, electrical: sim to Molex 08-50-0404.			DIODES AND RECTIFIERS
and CR703         CR704         4037822P1         Silicon, 1000 mA, 400 PIV.           CR705         4037822P1         Diode, red light emitting.	CR701	19A116783P1	Rectifier, silicon: 100 VDC blocking, 6 amp; sim to MR751.
CR708         4037822P1         Silicon, 1000 mA, 400 PIV.           CR710         19B219800G3         Diode, red light emitting.           J701         19C320257P2         Pin wafer assembly: 19 contacts.           J703         19C320257P2         Pin wafer assembly: 19 contacts.           J704         19B219627G1         Connector: 6 contacts.           J705         19A701785P1         Contact, electrical; sim to Molex 08-50-0404.           M113         J714         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J725         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J728         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J732         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J733         J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J733         J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J733         19A701785P1         Contact, electrical: sim to Molex 08-50-0404.	CR702 and CR703	19A115250P1	Silicon, fast recovery, 225 mA, 50 PIV.
CR710         19B219800G3         Diode, red light emitting.           J701         19C320257P2         Pin wafer assembly: 19 contacts.           J703         19B219627G1         Connector: 6 contacts.           J704         19B219627G1         Connector: 6 contacts.           J705         19A701785P1         Contact, electrical; sim to Molex 08-50-0404.           J714         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J725         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J728         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J728         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J729         4033513P4         Contact, electrical: sim to Bead Chain L93-3.           J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J733         J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J734         19A701785P1         Contact, electrical: sim to Bead Chain L93-3.           J733         J734         19A701785P1         Contact, electrical: sim to Molex 08-50-0404.		403782221	Silicon, 1000 mA, 400 PIV.
J701       19C320257P2       Fin wafer assembly: 19 contacts.         J703       19B219627G1       Connector: 6 contacts.         J705       19A701785P1       Contact, electrical; sim to Molex 08-50-0404.         J714       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J725       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J727       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J728       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J731       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J732       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J733       J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.			
J701       190320257P2       Pin wafer assembly: 19 contacts.         J703       198219627G1       Connector: 6 contacts.         J705       19A701785P1       Contact, electrical; sim to Molex 08-50-0404.         thru       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J712       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J723       J723       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J724       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J725       4033513P4       Contact, electrical: sim to Molex 08-50-0404.         J729       4033513P4       Contact, electrical: sim to Molex 08-50-0404.         J732       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J733       J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.	CALL TO	10001000000	
thru J703       198219627G1       Connector: 6 contacts.         J704       198219627G1       Contact, electrical; sim to Molex 08-50-0404.         thru thru       4033513P4       Contact, electrical; sim to Bead Chain L93-3.         J725       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J727       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J728       19A701785P1       Contact, electrical; sim to Molex 08-50-0404.         J729       4033513P4       Contact, electrical; sim to Molex 08-50-0404.         J729       4033513P4       Contact, electrical; sim to Molex 08-50-0404.         J732       4033513P4       Contact, electrical; sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical; sim to Bead Chain L93-3.         J733       19A701785P1       Contact, electrical; sim to Molex 08-50-0404. $$ TRANSISTORS       TRANSISTORS         Q701       19A116687P2       Variable, carbon film: 10K ohms $\pm 20\%$ , 1/4 w; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms $\pm 20\%$ , 1/2 w; sim to Mallory M101.         R703       3R77P511J       Composition: 510 ohms $\pm 5\%$ , 1/2 w.         R705       19A700113P101       Composition: 10 ohms $\pm 5\%$ , 1/2 w.			JACKS AND RECEPTACLES
J705 thru J71319A701785P1Contact, electrical; sim to Molex $08-50-0404$ .J714 thru J7234033513P4Contact, electrical: sim to Bead Chain L93-3.J725 J7254033513P4Contact, electrical: sim to Bead Chain L93-3.J727 J728 J728 J729 4033513P4Contact, electrical: sim to Bead Chain L93-3.J729 J729 4033513P4Contact, electrical: sim to Molex $08-50-0404$ .J729 J732 4033513P4Contact, electrical: sim to Molex $08-50-0404$ .J729 J732 4033513P4 J733 J733Contact, electrical: sim to Molex $08-50-0404$ .J731 J733 J73419A701785P1 Contact, electrical: sim to Bead Chain L93-3.J734 J73319A701785P1 	thru	19C320257P2	Pin wafer assembly: 19 contacts.
thru J713       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J724       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J725       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J727       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J728       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J732       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J733       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J733       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.           TRANSISTORS         Q701       19A116687P2       Silicon, NPN; sim to Type 2N3904.          RF01       19A116687P1       Variable, carbon film: 10K ohms $\pm 20\%$ , $1/4$ w; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms $\pm 20\%$ , $1/2$ w.       R705         R705       19A700113P101       Composition: 510 ohms $\pm 5\%$ , $1/2$ w.       R705         R705       19A700113P101       Composition:	J704	19B219627G1	Connector: 6 contacts.
thru       J723         J725       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J727       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J728       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J732       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J733       J734       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J733       J734       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J733       J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.	thru	19A701785P1	Contact, electrical; sim to Molex 08-50-0404.
J725       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J727       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J728       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J732       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J733       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.	thru	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
J727       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J728       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.         J729       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J732       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J733       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.		4033513P4	Contact, electrical: sim to Bead Chain L93-3.
J728       19A701785P1       Contact, electrical; sim to Molex 08-50-0404.         J729       4033513P4       Contact, electrical; sim to Bead Chain L93-3.         J732       4033513P4       Contact, electrical; sim to Bead Chain L93-3.         J733       19A701785P1       Contact, electrical; sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical; sim to Molex 08-50-0404.         Q701       19A115910P1       Silicon, NPN; sim to Type 2N3904.         Q701       19A116687P2       Variable, carbon film: 10K ohms ±20%, 1/4 w; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms ±20%, 1/2 w; sim to Mallory M204.         R703       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R704       R704       R704         R705       19A700113P101       Composition: 39K ohms ±5%, 1/2 w.         R704       R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R707       19A116622P5       Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.         S703       19B219996G2       Rotary: 1 section, 1 pole, 8 positions (adj ston) rate 2 amos 4 2 8 VDC or 1 am 0 4 10 VRMs			
J732 and J733       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.         Q701       19A115910P1       Silicon, NPN; sim to Type 2N3904.         Q701       19A116687P2       Variable, carbon film: 10K ohms ±20%, 1/4 w; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms ±20%, 1/2 w; sim to Mallory M204.         R703       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R704       19A700113P101       Composition: 10 ohms ±5%, 1/2 w.         R705       19A700113P15       Composition: 510 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R707       19A116622P5       Push: DFST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.         8703       19B219996G2       Rotary: 1 section, 1 pole, 8 positions (adj eton) ratef 2 amos @ 28 VDC or 1 am @ 10 VEM8.			
J732 and J733       4033513P4       Contact, electrical: sim to Bead Chain L93-3.         J734       19A701785P1       Contact, electrical: sim to Molex 08-50-0404.         Q701       19A115910P1       Silicon, NPN; sim to Type 2N3904.         Q701       19A116687P2       Variable, carbon film: 10K ohms ±20%, 1/4 w; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms ±20%, 1/2 w; sim to Mallory M204.         R703       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R704       19A700113P101       Composition: 510 ohms ±5%, 1/2 w.         R705       19A700113P15       Composition: 510 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R707       19A116622P5       Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.         8703       19B219996G2       Rotary: 1 section, 1 pole, 8 positions (adj eton) rated 2 amos @ 28 VDC or 1 am @ 100 VEMS	J729	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
J734       19A701785P1       Contact, electrical; sim to Molex 08-50-0404.         Q701       19A115910P1       Silicon, NPN; sim to Type 2N3904.         Q701       19A116687P2       Variable, carbon film: 10K ohms ±20%, 1/4 v; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms ±20%, 1/4 v; sim to Mallory M204.         R703       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R704       R704       Composition: 510 ohms ±5%, 1/2 w.         R705       19A700113P101       Composition: 10 ohms ±5%, 1/2 w.         R706       19A700113P15       Composition: 510 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 10 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 w.         S701       19A116622P5       Push: DFST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.         S703       19B219996G2       Rotary: 1 section, 1 pole, 8 positions did         S703       19B219996G2       Rotary: 1 section, 1 pole, 0 1 am Ø 100 VEMS	and	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
Q701       19A115910P1       Silicon, NPN; sim to Type 2N3904.         R701       19A116687P2       Variable, carbon film: 10K ohms ±20%, 1/4 v; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms ±20%, 1/4 v; sim to Mallory M204.         R703       3R77P511J       Composition: 510 ohms ±5%, 1/2 v.         R704       19A700113P101       Composition: 39K ohms ±5%, 1/2 v.         R705       19A700113P101       Composition: 10 ohms ±5%, 1/2 v.         R706       19A700113P15       Composition: 510 ohms ±5%, 1/2 v.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 v.         R707       3PA700113P15       Composition: 510 ohms ±5%, 1/2 v.         S701       19A116622P5       Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.         S703       19B21999662       Botary: 1 section, 1 pole, 8 positions (adj stop) rated 2 amos <b>9</b> 100 VEMS:		19A701785P1	Contact, electrical; sim to Molex 08-50-0404.
R701       19A116687P2       Variable, carbon film: 10K ohms ±20%, 1/4 v; sim to Mallory M204.         R702       19A116687P1       Variable, carbon film: 10K ohms ±20%, 1/2 v; sim to Mallory M101.         R703       3R77P511J       Composition: 510 ohms ±5%, 1/2 v.         R704       19A700113P101       Composition: 39K ohms ±5%, 1/2 v.         R705       19A700113P101       Composition: 10 ohms ±5%, 1/2 v.         R706       19A700113P15       Composition: 510 ohms ±5%, 1/2 v.         R707       3R77P511J       Composition: 510 ohms ±5%, 1/2 v.         R707       3R77P511J       Composition: 610 ohms ±5%, 1/2 v.         S701       19A116622P5       Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.         S703       19B219996G2       Botary: 1 section, 1 pole, 8 positions (adj stop) rated 2 amps @ 100 VEM8.			TRANSISTORS
R701         19A116687P2         Variable, carbon film: 10K ohms ±20%, 1/4 v; sim to Mallory M204.           R702         19A116687P1         Variable, carbon film: 10K ohms ±20%, 1/2 v; sim to Mallory M204.           R703         3R77P511J         Composition: 510 ohms ±5%, 1/2 v.           R704         700         Composition: 39K ohms ±5%, 1/2 v.           R705         19A700113P101         Composition: 39K ohms ±5%, 1/2 v.           R706         19A700113P15         Composition: 10 ohms ±5%, 1/2 v.           R707         3R77P511J         Composition: 510 ohms ±5%, 1/2 v.           R707         3R77P511J         Composition: 510 ohms ±5%, 1/2 v.           R707         3R77P511J         Composition: 510 ohms ±5%, 1/2 v.           S701         19A116622P5         Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sin to Switchcraft 11K1088.           S703         19B219996G2         Rotary: 1 section, 1 pole, 8 positions (adj stop) rated 2 amps @ 28 VDC or 1 am @ 410 VEMS	Q701	19A115910P1	Silicon, NPN; sim to Type 2N3904.
to Mallory M204.           R702         19A116687P1         Variable, carbon film: 10K ohms ±20%, 1/2 w; sim to Mallory M101.           R703 and R704         3R77P511J         Composition: 510 ohms ±5%, 1/2 w.           R705         19A700113P101         Composition: 39K ohms ±5%, 1/2 w.           R706         19A700113P15         Composition: 10 ohms ±5%, 1/2 w.           R707         3R77P511J         Composition: 510 ohms ±5%, 1/2 w.           S701         19A116622P5         Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.           S703         19B219996G2         Rotary: 1 section, 1 pole, 8 positions (adj zton) rated 2 amns @ 28 VDC or 1 am @ 10 VEMS.			
R703 and R704         3R77P511J R704         Composition: 510 ohms ±5%, 1/2 w.           R705         19A700113P101         Composition: 39K ohms ±5%, 1/2 w.           R706         19A700113P15         Composition: 10 ohms ±5%, 1/2 w.           R707         3R77P511J         Composition: 510 ohms ±5%, 1/2 w.           S701         19A116622P5         Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sin to Switchcraft 11K1088.           S703         19B219996G2         Rotary: 1 section, 1 pole, 8 positions (adj stop) rated 2 amps @ 28 VDC or 1 amp @ 100 VEMS;	R701	19A116687P2	to Mallory M204.
and R704         Composition: 39K ohms ±5%, 1/2 w.           R705         19A700113P101         Composition: 39K ohms ±5%, 1/2 w.           R706         19A700113P15         Composition: 10 ohms ±5%, 1/2 w.           R707         3R77P511J         Composition: 510 ohms ±5%, 1/2 w.           S701         19A116622P5         Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.           S703         19B219996G2         Rotary: 1 section, 1 pole, 8 positions (adj stop) rated 2 amps @ 100 VEMS;	R702	19A116687P1	Variable, carbon film: 10K ohms $\pm 20\%$ , 1/2 w; sim to Mallory M101.
R705         19A700113P101         Composition:         39K ohms ±5%, 1/2 w.           R705         19A700113P15         Composition:         10 ohms ±5%, 1/2 w.           R707         3R77P511J         Composition:         510 ohms ±5%, 1/2 w.           S701         19A116622P5         Push:         DFGT, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.           S703         19B219996G2         Rotary:         1 section, 1 pole, 8 positions (adj con) rated 2 amps @ 10 VEMS;	and	3R77P511J	Composition: 510 ohms ±5%, 1/2 w.
R706         19A700113P15         Composition:         10 ohms ±5%, 1/2 w.           R707         3R77P511J         Composition:         510 ohms ±5%, 1/2 w.		19A700113P101	Composition: 39K ohms ±5%, 1/2 w.
S701     19A116622P5       Push:     DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.       S703     19B21999662       Rotary:     1 section, 1 pole, 8 positions (adj ston), rated 2 amps 0 28 VDC or 1 amp 0 10 VEM8;		19A700113P15	
S701     19A116622P5     Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.       S703     19B21999662     Botary: 1 section, 1 pole, 8 positions (adj stop) rated 2 amps @ 28 VDC or 1 amp @ 10 VEMS:	R707	3R77P511J	Composition: 510 ohms $\pm 5\%$ , 1/2 w.
at 125 VAC; sim to Switchcraft 11k1088. S703 19B21999662 Rotary: 1 section, 1 pole, 8 positions (adj ston) rated 2 amns 0 28 VDC or 1 amn 0 100 VRMS:			
ston), rated 2 amps <b>0</b> 28 VDC or 1 amp <b>0</b> 110 VRMS:	8701	19A116622P5	Push: DPST, contacts rated 0.5 amp DC or 3 amps at 125 VAC; sim to Switchcraft 11K1088.
	8703	19B219996G2	ston), rated 2 amps @ 28 VDC or 1 amp @ 110 VRMS;

\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



### 1 & 1 THRU 8 FREQUENCY CONTROL UNIT 19D423590G3 & G4

## LBI-30239

				P901
		R	TX A+	-≺ 39
	•	# 8-8K	TX A-	40
	£	Y-88	DC CONV CONT	Ri I
ſ	[	Y-8L	RX MUTE	K3 I
	K	SHIELD	CONTROL A	K 21
	$\sim$	Y-GA	SPARE	K s
	$\sim$	SHIELD	MIC LO	K 2
1	$\sim$	22 - 8R	місні — 💛	K 4
вк	$\sim$	Y-R	SPARE -	K7
1	$\sim$	W-BR	F1	Ke I
r1	$\sim$	w-R	F2	Ka
	$\sim$	W- BL	F3	10
s1	$\sim$	w-v	F 4	Ku I
BR	$\sim$	W-GA	F5	12
ELD	$\sim$	w-0	F6	13
;	$\sim$	W-Y	F 7	K 14
;/	$\sim -$	Y- 8К ———	F8	K 15
1	$\sim$	Y-V	BLKR DISABLE	<b>X</b> 26
	$\sim -$	R	IGN SW	<b>√</b> 24
BR	$\sim$	w	PTT	<b>≺</b> 25
ELD	$\sim$	o	SQ DISABLE	<del> </del> < 23
1R	$\sim$	v	CAS	<b>∀</b> 16
R/	$\square$	GA	SQ ARM	K 17
	$\sim$	G	VOL / SQ HI	K 20
	$\square$	SHIELD	VOL/SQ LO	K 18
al/	$\square$	BL	VOL ARM	K 19
/		(6-Y	A+ ()	-< 29
5A	$\sim$	Y-G	RX PA	<b>→</b> 22
°1	$\sim$	16-8K ——	A	K 30
r ——	$\sim$	16-8R	SPKR LO	K 27
эк	$\sim$	I6-G	SPKR HI	K 58
3L	$\sim$		CG DISABLE	Кe
R	$\sim$		F9	-< 31
6A	$\sim$		+10	× 32
1	$\sim$		SPARE ()	≺ 33
8R	N		SPARE *	≺ 34
1			FII ¥	≺ 35
1			FI2	≺ 36
ELD	•		SPARE *	≺ 37
/1		0-BL	SPARE	≺ 38
NOTES:				
		SS OTHERWISE		
3 * THESE WIRE	S PRESENT	FIN 38 CONDU	CTOR CABLE ONLY.	

★ THESE WIRES PRESENT IN 38 CONDUCTOR CABLE ON #8 EXCEPT 3-FOOT CABLES ARE #12 # RED AND BLACK TX LEADS ARE SHOWN CONNECTERD FOR RECATIVE GROUND. CONNECT RED LEAD TO P901-40 AND BLACK TO P301-33.

## PARTS LIST

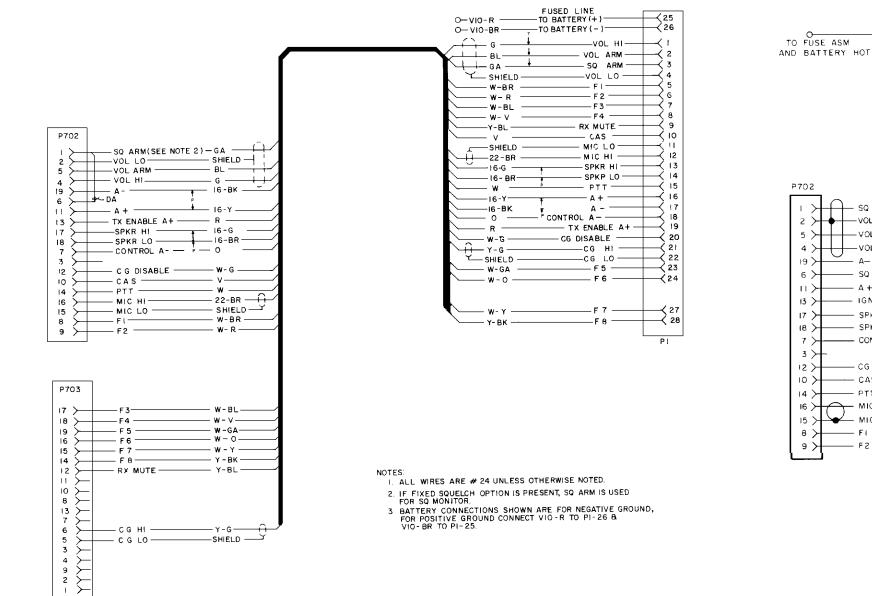
	ge part no.	DESCRIPTION	SYMBOL	ge part no.	DESCRIPTION	SYMBOL	GE PART NO.	DESCRIPTION	SYMBO
		FREQUENCY INDICATOR LIGHT ASSEMBLY	7	19C320175P1	Frequency indicator.			POWER/CONTROL CABLE	
		19B219696G3	8	NP270754A	Nameplate. $(1-12)$ .			NEGATIVE GRD EXECUTIVE II INTERFACE	
		DIODES AND RECTIFIERS	9	NP270754B	Nameplate. (OFF, A-H).			19C321890G1	
CR709	19A134354P4	Diode, optoelectronic: Green; sim to Hew.	10	19A701900P1	Retainer strap: sim to Tinnerman C2386-020-1.			PLUGS	
		Packard 5082-4992.	11	N117P9004C13	Tap screw: No. 4-40 x 1/4.	P1		Connector. Includes:	
			12	7165075P2	Hex nut, brass: thd. size No. 3/8-32.		19C311409P1	Shell.	
		CHANNEL BUSY OPTION 19A129567G6	13	7115130P9	Lockwasher: sim to Shakeproof 1220-2.		19D413039P1	Connector Cover. (Nut side).	
		DIODES AND RECTIFIERS	14	19A134017P1	Adjustable stop.		19D413039P2	Connector Cover. (Screw side).	
CR706	19B219800G19	Diode, light emitting: yellow.	15	19B219578G1	Safety Release Disc.	P702		Connector. Includes:	
CR/00	19A116807P1	Clip, spring tension. (Secures CR706).	16	19C320022P1	Retaining bracket.		19B226516G1	Shell.	
			17	N187P16010C6	Screw, hexhead, slotted: No. 10-32 x 5/8. (Quantity 1, used with safety release disc and retaining bracket).		19A116781P5	Contact, electrical: wire range No. 18-24 AWG; sim to Molex $08\!-\!50\!-\!0106$ .	
		NOISE BLANKER DISABLE OPTION 19A129567G7	18	N130P1612C6	Screw, hexhcad, slotted: No. 10-16 x 3/4. (Quantity 3, used without safety release disc and		19A116781P6	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108.	
					retaining bracket).	P703		Connector. Includes:	
\$1	19B219988G1	Slide: SPST, 1 pole, 2 positions, rated 0.5 amps VDC or 3 amps VAC @ 125; sim to Switchcraft 46202LH.		N130P1624C6	Screw, thread forming: No. $10-16 \times 1-1/2$ . (Quantity 3 - used without safety release disc and retaining bracket for extra thick carpet).		19B226516G2 19A116781P5	Shell. Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.	
	4032480P1	Nut, sheet spring: sim to Vector Electronic Co.	19	19D416594P1	Mounting bracket.		19A116781P6	Contact, electrical: wire range No. 22-26 AWG;	
	NAODOOCCOC	No. 440. (Secures S1).	20	19C331834G1	Cover.			sim to Molex 08-50-0108.	
	N80P9006C6	Machine screw: No. 4-40 x 3/8.	21	N187P16010C6	Screw, hexhead, slotted: No. 10-32 x 5/8.		7142878G1	Clip loop. (Strain relief).	
		FIXED SQUELCH OPTION	22	NP270753P1	Nameplate. (MASTR II SOLID STATE).		19A115799P7	Solderless terminal: wire size No. 12-10 AWG; sim to AMP 31828-LOOSE PC.	P701
		194129567G3	23 24	19B219626P1 7140578P6	Knob plug. (Frequency switch S702). Nut, push on: sim to Tinnerman C318-012-67. (Used with item 23).		198800629P4	Solderless terminal: wire range No. 12-10; sim to AMP 31828 LOOSE PC.	
			25	19 <b>4</b> 130009P1	Diffuser.		7139880P14	Cable: 27 conductor, 20 feet.	
\$1702		SWITCH ASSEMBLY 19A129628G1	26	7160815P4	(Not Used).				
		PEUGS						12-VOLT 2-WIRE IGNITION SWITCH CABLE	
P1723	4033348P1	Contact, electrical: sim to Bead Chain M12534.			ASSOCIATED ASSEMBLIES			19B219537G4	
P1729	4033348P1	Contact, electrical: sim to Bead Chain M12534.			POWER/CONTROL CABLE			PLUGS	
					30 CONDUCTOR 19D423424G8	P701		Connector, Includes:	
		RESISTORS					19B226516G3	Shell.	
	19A700113P87	Resistor, composition: 10K ohms ±5%, 1/2 w.			PLUGS		19A129504G1	Y Cable. (BLACK).	
			P702		Connector. Includes:			FUSED LEAD ASSEMBLY	
	19A129628G1	Rotary: 1 section, 1 pole, 2 positions,		19B226516G1	Shell:			19A129480G3 (Used with 19B219537G4)	
		non-shorting contacts, 2 amps 0 28 VDC or 1 amp 0 110 VRMS; sim to Oak Type "22" Series. (Includes P1723 & P1729).		19A116781P5	Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106. (Quantity 4).				
		F1725 & F1725).		19A116781P6	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108. (Quantity 15).		1R16P8	Cartridge, quick blowing: 5 amps at 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.	
		UNIVERSAL TONE JACK OPTION	P703		Connector. Includes:		19A115776P6	Fuscholder: sim to Bussmann 9835.	
		19A129567G17	P103	19B226516G2	Shell.		19A115776P5	Knob assembly: sim to Bussmann 9953 1/2.	
				19A116781P6	Contact, electrical: wire range No. 22-26 AWG;		19A115776P7	Spring: sim to Bussmann 1A1853.	
P750	19B227105G1	Connector, receptacle: 9 contacts; sim to		15012070010	sim to Molex 08-50-0108. (Quantity 11).		19A115776P3	Contact: sim to Littelfuse 904-88. (Located inside fuseholder).	
		Winchester M9S-LRN.	P901		Connector, special purpose. Includes:		7491823P7	Solderless terminal: wire size No. 16-14 AWG.	
	N80P9005C6 7141225P2	Machine screw, phillips head: No. 4-40 x 5/16. Hex nut: No. 4-40.		19C307162P1	Shell.		7491823P8	Solderless terminal: wire size No. 16-14 AWG.	
	N404P11C6	Lockwasher, internal: No. 4.		19A701376P1	Contact, electrical rated 0 4 amps; sim to AMP 350657-1. (Quantity 26).		4029484P2	Terminal, quick connect: wire size 14-18 AWG, fits $1/4 \times .032$ tab; sim to AMP 41274.	
				19A701376P2	Contact, electrical rated @ 4 amps; sim to AMP		19A116849P1	Insulated splice.	
		MECHANICAL PARTS (SEE RC2447)		19A701376P3	350656-1. (Quantity 4). Contact, electrical rated @ 35 amps; sim to AMP		19A116781P5	Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.	
1	19A116807P1	Clip, spring tension.			350655-1. (Quantity 2).				
2	19A116773P106	Tap screw, POZIDRIV: 7-19 x 3/8.			MISCELLANEOUS			DC CONVERTER IGNITION SWITCH CABLE	
3	19B201074P204	Tap screw, phillips POZIDRIV®: No. 4-40 x 1/4.		7139880P14	Cable: 27 conductor, 20 feet.			IGNITION SWITCH CABLE 19B219537G3	
4	N402P7C6	Flatwasher, narrow: No. 6.		714287861	Clip loop. (Strain relief).				
5	19C320389G1	Housing.		19B209245P103	Spacer.	P701		Connector. Includes:	
6	19B219825G1	Knob.		19A134241P1	Jackscrew. (Used with P901).		19B226516G3	Shell.	
				19C328122P1	Adapter. (Located between P901 & mounting surface).		19A130117G1	Jumper.	

```
LBI-30239
```

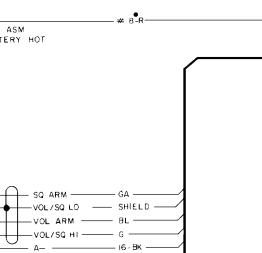
MBOL	ge part no.	DESCRIPTION
		FUSED LEAD ASSEMBLY
		19A129480G1 (Used with 19B219537G3)
	1R16P3	Quick blowing: 1 amp at 250 v; sim to Littelfuse 312001 or Bussmann AGC-1.
	19A115776P6	Fuseholder: sim to Bussmann 9835.
	19A115776P5	Knob assembly: sim to Bussmann 9953 1/2.
	19A115776P7 19A115776P3	Spring: sim to Bussmann 1A1853. Contact: sim to Littelfuse 904-88. (Located
	19811577625	inside fuseholder).
	749182397	Solderless terminal: wire size No. 16-14 AWG. Solderless terminal: wire size No. 16-14 AWG.
	7491823P8 4029484P2	Solderless terminal: wire size No. 16-14 AWG. Terminal, quick connect: wire size 14-18 AWG,
		fist 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1	Insulated splice. Contact, electrical: wire range No. 18-24 AWG;
	19A116781P5	sim to Molex 08-50-0106.
		OPTIONAL 12-VOLT 3-WIRE Ignition Switch Cable 19821953761
		PLUGS
L		Connector. Includes:
	19B226516G3	Shell.
	19A129504G1	Y Cable. (BLACK).
		FUSED LEAD ASSEMBLY 19A123480G1 1 AMP (RED) (Used with 19B219537G1)
	1R16P3	Quick blowing: 1 amp at 250 v; sim to Littelfuse 312001 or Bussmann AGC-1.
	19A115776P6	Fuseholder: sim to Bussmann 9835.
	19A115776P5	Knob assembly: sim to Bussmann 9953 1/2.
	19A115776P7	Spring: sim to Bussmann 1A1853. Contact: sim to Littelfuse 904-88. (Located
	19A115776P3	Contact: sim to Littelfuse 904-88. (Located inside fuscholder).
	7491823P7	Solderless terminal: wire size No. 16-14 AWG.
	7491823P8 4029484P2	Solderless terminal: wire size No. 16-14 AWG. Terminal, quick connect: wire size 14-18 AWG,
		fist 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1 19A116781P5	Insulated splice. Contact, electrical: wire range No. 18-24 AWG;
	19411678125	sim to Molex 08-50-0106.
		FUSED LEAD ASSEMBLY 19A129480G2 5 AMP (YELLOW) (Used with 19B219537G1)
	1R16P8	Cartridge, quick blowing: 5 amps at 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.
	19A115776P6	Spring: sim to Bussmann 9835.
	19A115776P5	Knob assembly: sim to Bussmann 9953 1/2.
	19A115776P7 19A115776P3	Spring: sim to Bussmann 1A1853. Contact: sim to Littelfuse 904-88. (Located
		inside fuseholder).
	7491823P7 7491823P8	Solderless terminal: wire size No. 16-14 AWG. Solderless terminal: wire size No. 16-14 AWG.
	7491823P8 4029484P2	Terminal, quick connect: wire size NO. 10-14 and. fits 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1 19A116781P5	Insulated splice. Contact, electrical: wire range No. 18-24 AWG;
	15411076115	sim to Molex 08-50-0106.

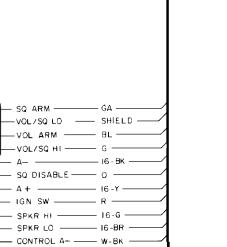
SYMBOL	ge part no.	DESCRIPTION	3 4
		25 - 50 MHz ANTENNA	
	7491074P1	Antenna: includes stainless steel rod approx 96-1/2 inches long; ball tip; lockwasher; No. 10-32 hox socket set screw; sim to Antenna Specialist SASAABGE. (30-50 MHZ).	
	7491074P2	Antenna: includes stainless steel rod approx 102 inches long; ball tip; No. 10-32 hex socket set screw; sim to Antenna Specialists ASPA3BGE. (25-30 MHz).	
	7102930P3	(25-30 MH2). Adapter, antenna: approx 2-5/16 inches long. (Used with GE Dwg 7491074P1).	2
	4K¥9A 1	Loading coll: 25-33 MHz; sim to Antenna Specialists ASPA87.	
	19A121577G1	Antenna hook kit.	
	7134724P1	Antenna hook.	
	19C307172P1	Antenna Package: Includes base & ball assembly, adapter spring assembly, cable assembly, horseshoe plate, and rubber gasket.	
		Base and ball assembly. Newtronics 5495.	
		Adapter spring assembly. Newtronics 3327.	
		Cable assembly. Newtronics 183-RAO.	הלכובה ההמספה ( / אממת הלכובה ההפרא / אממת הלכובה התפרא
		Horseshoe plate. Newtronics 3323-3.	
		Rubber gasket. Newtronics 3320.	
		66 - 88 MHz ANTENNA 19C320111P3	II 10
	19C320111G1	Antenna base: 15 ft. cable with M2R22P1 connector with 7105381P1 adaptor; sim to Decibel Products DB719.	ğ s702 जी. ∏
	19C32011162	Antenna whip and spring base: sim to Decibel Products DB670A.	
		132 - 512 MHZ ANTENNA 19820956881	
		Whip assembly, 068110-001.	
		Whip nut assembly, 068047-001.	
		Base nut assembly. 068048-001.	22 21 20 <sup>19</sup> th
		"O" Ring (LARGE). 007059-122.	
		Stud assembly. 068046-001.	
		RG58/U Cable, 15 ft. 068115-001.	23
		800 - 870 MHz ANTENNA 198209568P4	
		Whip assembly. 068110-001.	
		Whip nut assembly. 068047-001.	
		Base nut assembly. 068042-001.	
		Base nut assembly. 068048-001. "O" Ring (LARGE). 007059-122.	
			24
		Stud assembly. 068046-001.	
	19B209018P5	Plug, Type N; sim to UG536B/U	25
		Cable. (Included as part of complete antenna assembly only).	
		12 VOLT FUSE ASSEMBLY 19B216021G4	
		(Fuses must be ordered separately)	
			PRODUCTION CHANGES
	101104		Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all
	1R11P4	Quick blowing: 15 amps, 250 v; sim to Bussmann NON15. (Used with 16-38 w MASTR II Mobiles).	Letter," which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.
	1R11P7	Quick blowing: 30 amps, 250 v; sim to Bussmann NON30. (Used with 66-128 w MASTR II and EXECUTIVE II Mobiles).	REV. A - <u>Channel Busy Option 19A12956766</u>
4	1R11P5		To provide a yellow channel busy indicator. Replaced CR706, Cr706 was: 19B219800G2- Diode,
		Quick blowing: 20 amps, 250 v; sim to Bussmann NON20. (Used with 38-66 w MASTR II and 35-66 w EXECUTIVE II Mobiles).	red light cmitting.
			REV. A - <u>Component Board 19D423588G1, 2</u> Replaced DA jumper between H90-H91 with printed
			wire run.
		•	

#### POWER/CONTROL CABLE 19C321890G1



(19C321630, Rev. 4)





CG DISABLE ----- W-G ---

— v –

— w –

------ W-BR

- W-R

— 22-BR

- SHIELD

- CAS -

- PTT HI ---

— міс ні —

- MIC LO ----

FI -----

F2

NOTES:

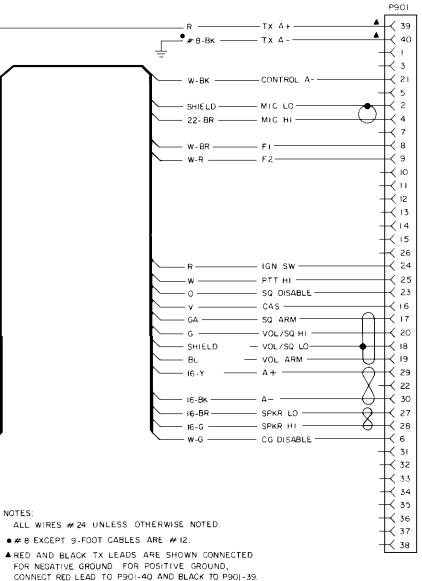
(19C321783, Rev. 2)

LBI-30239

## SCHEMATIC DIAGRAM

LBI-30239

POWER/CONTROL CABLE 19D423424G2



**OPTIONAL 18-CONDUCTOR POWER/CONTROL CABLE 19D423424G2** POWER/CONTROL CABLE 19C321890G1 MASTR II/Executive II INTERFACE

#### PARTS LIST

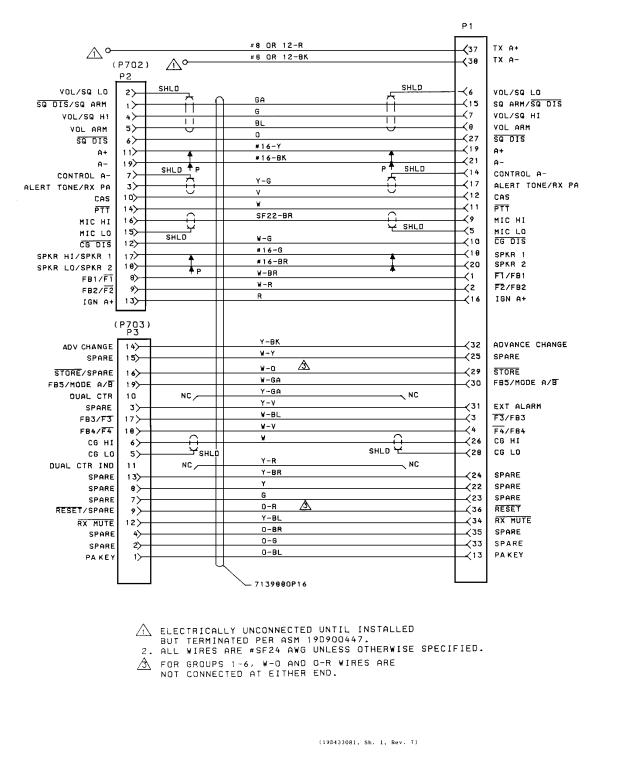
 30
 CONDUCTOR
 POWER/CONTROL
 CABLES

 12020044701
 3
 METER
 SHORT
 GROUND

 12020044702
 3
 METER
 SHORT
 GROUND

 12020044703
 6
 METER
 SHORT
 GROUND

 12020044705
 9
 METER
 LONG GROUND
 ISSUE 2



SYMBOL	GE PART NO.	DESCRIPTION
P1		Connector. Includes:
	19D900037P1	Shell.
	19A701376P1	Contact, electrical rated 0 4 amps; sim to AMP 350657-1. (P1-1 thru 17, 26 thru 34).
	19A701376P2	Contact, electrical rated <b>0</b> 4 amps; sim to AMP 350656-1. (P1-18 thru 21).
	19A701376P3	Contact, electrical rated <b>0</b> 35 amps; sim to AMP 350655-1. (P1-37 & 38).
	19D900015P1	Housing.
	19C850508P1	Cover.
	19880088221	Thumbscrew: thd. size M4 x 0.7.
	19A701488P4	Retaining ring. (Located on thumbscrew).
	19A701312P6	Flat washer: 1.7-1.85 ID. (Located on thumbscrew)
	19A701507P608	Screw, thd. forming: No. 3.5-1.27 x 12.7. (Secures housing to shell).
	19A701507P606	Screw, thread forming: No. 3.5-1.27 x 9.60. (Secures cover to housing).
	19A700031P425	Machine screw, POZIDRIV®: M3-0.5 x 25. (Secures cable to P1).
	19A700034P5	Hex nut: No. M3.5 x 0.6. (Secures cable to P1).
	19A700032P5	Lockwasher, internal tooth: No. 3MM. (Secures cable to P1).
P2		Connector, Includes:
	19B226516G1	Shell.
	19A116781P5	Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106. (P2-11, 17 thru 19).
	19A116781P6	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108. (P2-1 thru 10, 12 thru 16).
P3		Connector. Includes:
	19B226516G2	Shell.
	19A116781P6	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108. (P3-1 thru 3, 5, 6, 10 thru 13, 17, 18).
		MISCELLANEOUS
	7139880P16	Cable, special purpose: 34 conductors. (Specify length).
	19A701460P2	Cable battery, red; sim to GE S1-57528. (Used in G1 & G2 - Specify length).
	19A701460P10	Cable battery, black. (Used in G1 & G2 - Specify length).
	19A701460P2	Cable battery, red; sim to GE S1-57528. (Used in G3 - G6 - Specify length).
	19A701460P10	Cable battery, black. (Used in G3 - G6 - Specify length).
	19B800629P1	Solderless terminal. (Located on black battery cable in G3 & G5).
	19B800629P3	Solderless terminal. (Located on black battery cable in G4 & G6, on red battery cable in G3 - G6).
	7142878G1	Clip loop. (Secures cable at P2 & P3).

\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

#### MASTR DELTA INTERFACE CABLE

19D900447G1-G6

#### PARTS LIST

LBI30449E

MICROPHONE HOOKSWITCH 19C320318G3, G5

SYMBOL	GE PART NO.	DESCRIPTION	SYMBOL	GE PART NO.	DESCRIPTION
SYMBOL S1 S2 and S3 S5 S6 W1 W2	GE PART NO.	DESCRIPTION	SYMBOL LS1 LS2 W1 W2 P702 W3 W4 P1 W5	GE PART NO. 19A116694P1 19A116910P1 19A129414G1 19A122167G1 5493018P2 5491563P4 19A121546G1 19A130648G1 19B209288P16 5496809P18 19A136574G1 19B219692G2 19B219692G2 19B219692G2 19B219692G3 19B229593G1 19B227593G1 19B227593G3 19B227593G4 19B227593G5 19C320016P1 19C320022P1 19B219578G1 19A116986P108	<ul> <li>LOUDSPEAKERS LOUDSPEAKERS</li></ul>
			*COMPON	19822759362 19822759363 19822759364 19822759365 190320016P1 190320022P1 19821957861 19A116986P108 19A116986P108 19A116986P112 N187P1601006 N710P1601206 N187P1601006 N130P1601206	<ul> <li>Housing. (Used in G2, G8, &amp; G9).</li> <li>Housing. (Used in G3).</li> <li>Housing. (Used in G11).</li> <li>Housing. (Used in G12).</li> <li>Mounting bracket. (Located between housing &amp; retaining bracket).</li> <li>Retaining bracket. (Located between mounting bracket &amp; safety release disc).</li> <li>Safety Release Disc.</li> </ul>

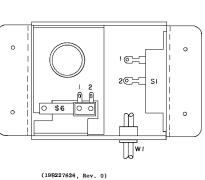
#### PARTS LIST

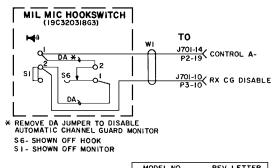
## LBI4481D TRANSISTORIZED DYNAMIC MICROPHONE 19C320270G1, G2 (SEE RC2454)

SYMBOL	GE PART NO.	DESCRIPTION
1	RP127	Front Case Assembly. (Includes items 14, & 15)
2		Retaining spring. (Part of item 18).
3		Tap screw, phillips. (Part of item 16).
4		Retaining bar. (Part of item 16).
5	19D416766P1	Connector case.
6	19A129435P1	Pin contact.
7	19A701289P1	Retaining ring: 3/16 inches; sim to National Lockwasher WA 510.
8	19D416767P1	Connector Cover.
9	19B219723G1	Thumb screw: lexan.
10	N136AP905Y6	Tap screw: No. 4-24 x 5/16.
11	19A116937P1	Cable clamp: sim to Malco 21012-3.
12	19B219749P1	Flex relief.
13	RP126	Switch button kit.
14		Rear Case Assembly. (Part of item 1),
15		Tap screw, phillips. (Part of item 1).
16	19C321016G1	Cable assembly: Includes items 3-12 & cable RP129.
17	RP128	Switch assembly.
18	RP130	Grille Assembly. (Includes items 2, 19, 21).
19		"O" Ring. (Part of item 18).
20	RP117	Transistorized cartridge.
21		Washer. (Located under cartridge - Part of iter 18).
22	19C321016G3	Connector Assembly: Includes items 5-12.

\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

#### **OUTLINE DIAGRAM**





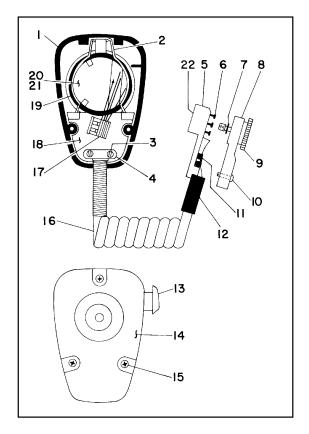
(19A136836, Rev. 2)

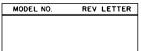
\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

PARTS LIST

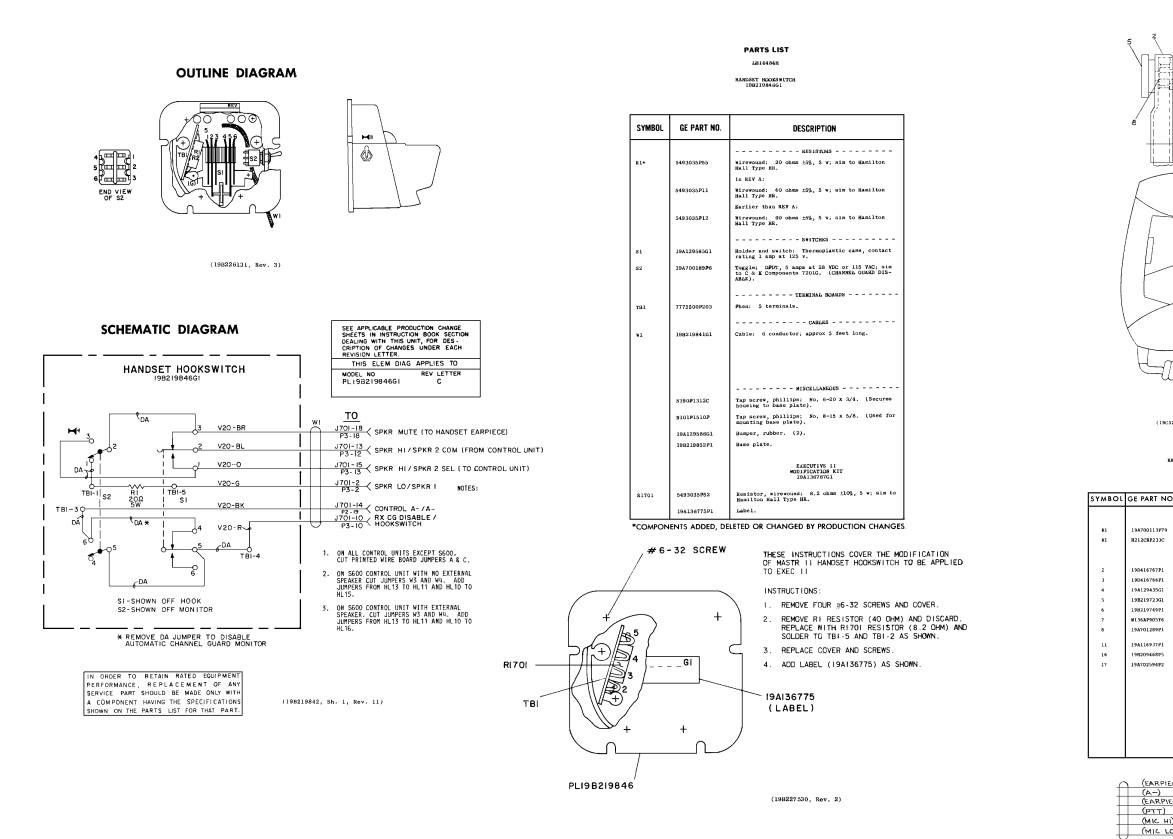
LBI4488D SPEAKER 19C320302G1

LBI-30239



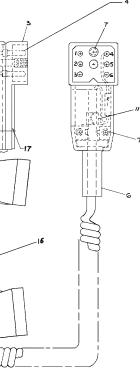


**MICROPHONE & HOOKSWITCH** 



HANDSET & HOOKSWITCH

## LBI-30239



(19C320478, Sh. 1, Rev. 5)

#### PARTS LIST

#### HANDSET ASSEMBLY - 6 CONDUCTOR 19C320478G5 MASTR II 19C320478G6 DELTA

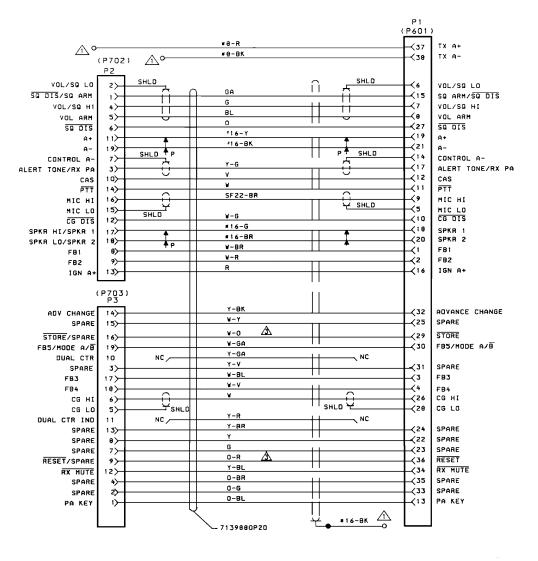
О.	DESCRIPTION
0	DESCRIPTION  Composition: 4.7K ohms ±5%, 1/2 w. (Used in G5).  Deposited carbon: 3.1K ohms ±5%, 1/4 w. (Used in G6).  Connector Cover. Connector Cover. Connector Cover. Pin, contact. Pin, contact. Pink cellef. Tap screw: No. 4-24 x 5/16. Retaining ring: 3/16 inches; sim to National Lockwaher W 510. Cable clamp: sim to Nalco 21012-3. Handset. Nameplate.
	Lockwasher WA 510. Cable ciamp: sim to Nalco 21012-3. Handset.

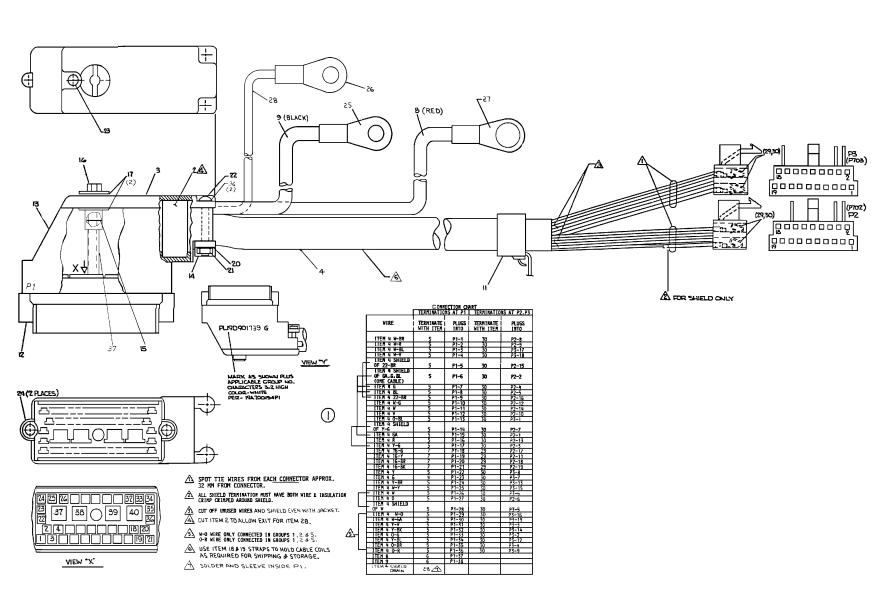
ECE LO) Y	ELLOW
-----------	-------

	BLACK	O PIN 5
IECE HI)	BLUE	RI O PINIS
	WHITE	4.7K/3.3K O PIN 3
41)	RED	
LO)	GREEN	
		U FINI

O PIN 6

WIRING DIAGRAM





A ELECTRICALLY UNCONNECTED UNTIL INSTALLED

BUT TERMINATED PER ASM 19D901739. 2. ALL WIRES ARE #SF24 AWG UNLESS OTHERWISE SPECIFIED.

▲ FOR GROUPS 3.486 W-O AND O-R WIRES ARE NOT CONNECTED AT EITHER END.

## LBI-30239

**POWER/CONTROL CABLE CONTROL UNIT TO DELTA MOBILE** 19D901739G3 LBI-30239J

\*\*\*\*\*\*



PARTS LIST

CONTROL/POWER CABLE 190901739G3

## **Mobile Communications**



C-500 SERIES **1-FREQUENCY CONTROL UNIT** WITH OPTIONS - 19D423590G3 1-THRU 8-FREQUENCY CONTROL UNIT - 19D423590G4

SYMBOL	GE PART NO.	DESCRIPTION
Pl		Connector, consists of items 3, 12
P2	198226516G1	Connector, Includes:
	19C320257P1	Printed Wire Connector; sim to Mol- Keyed by removing tab A, use contac
P3	19822651662	
F3	198226516G2 19C320257P1	Connector. Includes:
	1.052023711	Printed Wire Connector; sim to Mole Keyed by removing tab B, use contac
		MISCELLANEOUS
2	19B800513P1	Gasket.
3	19C850508P1	Cover.
4	7139880P20	Cable, special purpose, 34 conducto overall shield.
5	19A701376P1	Contact, electrical rated & 4 amps; 350657-1.
6	19A701376P3	Contact, electrical rated @ 35 amps 350655-1.
7	19A701376F2	Contact, electrical rated @ 4 amps; 350656~1.
8	19A701460P2	Cable, red; sim to GE S1-57528.
9	19A701460P10	Cable, black.
11	7142878G1	Clip loop.
12	190900037F1	Shell.
13	19D900015P1	Housing.
14	19A701077P1	clip.
15	19A701488P4	Retaining ring.
16	19A705055P1	Thumbscrew.
17	N402P38B6	Washer, plain.
18	19J706152P8	Retaining strap: sim to Dennison Ba
19	19J706152P9	Retaining strap; sim to Dennison BA
20	19A700032P5	Lockwasher, internal tooth: No. 3M
21	19A700034P4	Nut, hex: No. M3 x 0.5MM.
22	19A700031P425	Machine screw, No. M3-0.5 x 25.
23	19A701507P606	Screw, thd forming: M3.5-1.27 x 9.
24	19A701507P608	Screw, thd. forming: No. 3.5-1.27
25	198800629P1	Solderless terminal.
26	198800629P6	Solderless terminal: wire range No sim to AMP 42751-2.
27	19B800629P3	Solderless terminal.
28	19A701462P10	Wire, Stranded.
29 30	19A116781P3	Contact, electrical: wire range No sim to Molex 08-50-0105.
30	19A116781P4 19A115799P1	Contact, electrical: wire range Ng. sim to Molex 08-50-0107.
31	19411213351	Terminal, solderless: sim to AMP 3.
32	198701631P610	ITEM 31,34,35 AND ATTACH TO ITEM 8
35	19A700033P12	Machine bolt: M6-1 x 10. Washer, lock.
36	N402P586	washer, lock. Washer: narrow, steel.
37	19C337474P1	Sleeve, support.
		auggott.

\*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



Ericsson GE Mobile Communications Inc. Mountain View Road • Lynchburg, Virginia 24502

# **Maintenance Manual**

2, and 13. lex 15-04-0221. acts 29 and 30. lex 15-04-0221. acts 29 and 30. - - - - - tors with s; sim to AMP ps; sim to AMP s; sim to AMP ar-lok 08470. AR-LOK 08471. MM. .60, x 12.7. lo. 14-16 AWG; . 16-20 AWG; 22-26 AWG; 33460

Printed in U.S.A.