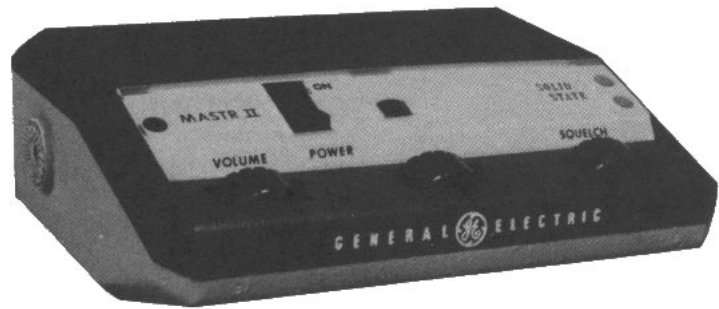




Mobile Communications



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

PARTS LIST

CONTROL/POWER CABLE
19D901739G3

SYMBOL	GE PART NO.	DESCRIPTION
P1		Connector, consists of items 3, 12, and 13.
P2	19A226516G1 19C320257P1	Connector. Includes: Printed Wire Connector; sim to Molex 15-04-0221. Keyed by removing tab A, use contacts 29 and 30.
P3	19A226516G2 19C320257P1	Connector. Includes: Printed Wire Connector; sim to Molex 15-04-0221. Keyed by removing tab B, use contacts 29 and 30.
		- - - - - MISCELLANEOUS - - - - -
2	19B800513P1	Gasket.
3	19C850508P1	Cover.
4	7139880P20	Cable, special purpose, 34 conductors with overall shield.
5	19A701376P1	Contact, electrical rated @ 4 amps; sim to AMP 350657-1.
6	19A701376P3	Contact, electrical rated @ 35 amps; sim to AMP 350655-1.
7	19A701376P2	Contact, electrical rated @ 4 amps; sim to AMP 350656-1.
8	19A701460P2	Cable, red; sim to GE 81-57528.
9	19A701460P10	Cable, black.
11	7142878G1	Clip loop.
12	19D900037P1	Shell.
13	19D900015P1	Housing.
14	19A701077P1	Clip.
15	19A701488P4	Retaining ring.
16	19A705055P1	Thumbcrew.
17	M402P38B6	Washer, plain.
18	19J706152P8	Retaining strap; sim to Dennison Bar-lok 08470.
19	19J706152P9	Retaining strap; sim to Dennison BAR-LOK 08471.
20	19A700032P5	Lockwasher, internal tooth: No. 3MM.
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 9.60.
24	19A701507P608	Screw, thd. forming: No. 3.5-1.27 x 12.7.
25	19B800629P1	Solderless terminal.
26	19B800629P6	Solderless terminal: wire range No. 14-16 AWG; sim to AMP 42751-2.
27	19B800629P3	Solderless terminal.
28	19A701462P10	Wire, Stranded.
29	19A116781P3	Contact, electrical: wire range No. 16-20 AWG; sim to Molex 08-50-0105.
30	19A116781P4	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0107.
31	19A115799P1	Terminal, solderless: sim to AMP 33460.
32		ITEM 31,34,35 AND ATTACH TO ITEM 8
34	19A701631P610	Machine bolt: M6-1 x 10.
35	19A700033P12	Washer, lock.
36	M402P5B6	Washer: narrow, steel.
37	19C337474P1	Sleeve, support.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



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

TABLE OF CONTENTS

	Page
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!

OPTIONS

DESCRIPTION	MODEL NUMBER
Fixed Squelch (Option 9276)	19A129567G3
Channel Busy Light (Option 9277)	19A129567G6
Noise Blanker Switch (Option 9279)	19A129567G7
Universal Tone Jack (Option 9278)	19A129567G17
Extender Board (Option 9029)	19G320588G1
Window Mount Speaker Kit (Option 9053)	19A130023G1
Ignition Switch Standby Cable (Option 9065)	19B219537G1
Control Hump Mount Bracket (Option 9079)	19A130889G1
33 Foot Ground Cable (Option 9081)	19A136690G1

COMBINATION NOMENCLATURE

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5	Digits 6 & 7		Digit 8
Mechanical Package	System Voltage	Channel Capacity	Number of Operating Channels	Microphone or Handset	Options		Control Unit Series
F Control Unit with Mounting Bracket only	1 ± 12 VDC MASTR II Appl.	A 1-Channel	A One	1 None	BB Standard (May apply all four digit options and Handset with Hookswitch)	FJ Type 99 Decoder, Group Call with External Alarm	HH INT/EXT Speaker
G Control Unit with Mounting Bracket, Cables and Speaker MASTR II Appl.	2 ± 24 to 48 VDC MASTR II Appl.	C 2-Channels	C Two	2 Standard Microphone	CC Dual Control	GG Type 90 Encoder/Decoder	JJ Squelch Operated Relay
H Control Unit with Mounting Bracket, Cables and Speaker EXEC II Appl.	3 ±12 VDC (Neg. Gnd. only) EXEC. II Appl.	F 4-Channels	E Three	3 Standard Microphone with CG Hookswitch	DD Public Address	GH Type 90 Encoder/Decoder with External Alarm	LL PSLM 2 Frequency
		K 8-Channels	F Four	4 Handset with Hookswitch (Compatible with CG)	EE Marine HI-LO Power Option	GJ Type 90 Decoder	LM PSLM, 2- or 8- Frequency (Locked Priority)
			G Five	5 Noise Canceling Microphone	FF Type 99 Decoder, Individual Call	GK Type 90 Decoder with External Alarm	LN PSLM, 2- or 8- Frequency (Locked Non-Priority)
			H Six	6 Noise Canceling Microphone with CG Hookswitch	FG Type 99 Decoder, Group Call	GL Type 90 Encoder	MM External CG Encoder Application Kit
			J Seven	7 Handset with Hookswitch, Duplex (Compatible with CG)	FH Type 99 Decoder, Individual Call with External Alarm	GM Type 90 Encoder with Audio Burst	NN GE Star Decoder
			K Eight	8 Handset (Decoder Appl.)			

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™ 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.

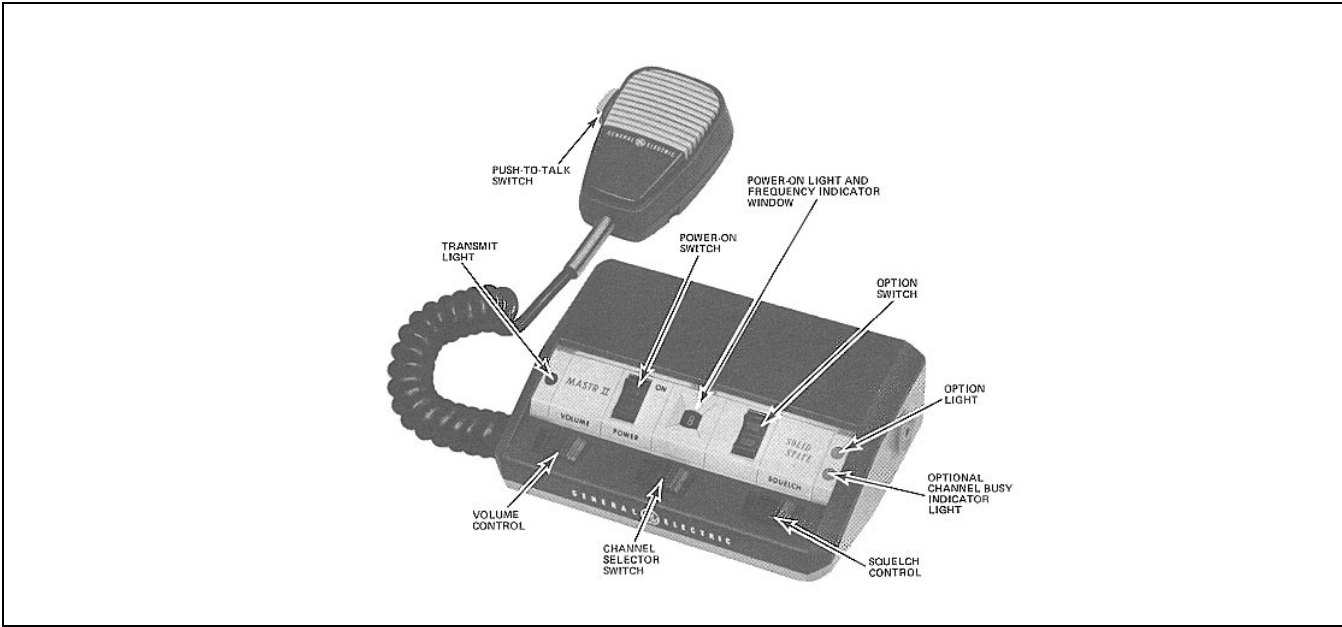


Figure 1 - Control Unit Layout

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.

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 be 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 board.

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 yellow 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 ACCESSORY 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.
2. Ignition Switch Bypass - For ignition switch bypass, 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

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.

CAUTION

When using the DC Converter, do not connect battery ground to the Control Unit A-. To do so may cause failure of the current limiting circuit in the converter.

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 jack.
2. Remove the screw between J701 and J702 and remove the screw between J702 and J703.
3. Remove the screw at each end of the switch and control mounting bracket.
4. 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

12-Volt Systems. MASTR II mobile combinations can operate in ±12-Volt systems. EXEC II mobile combinations operate in ±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.

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.

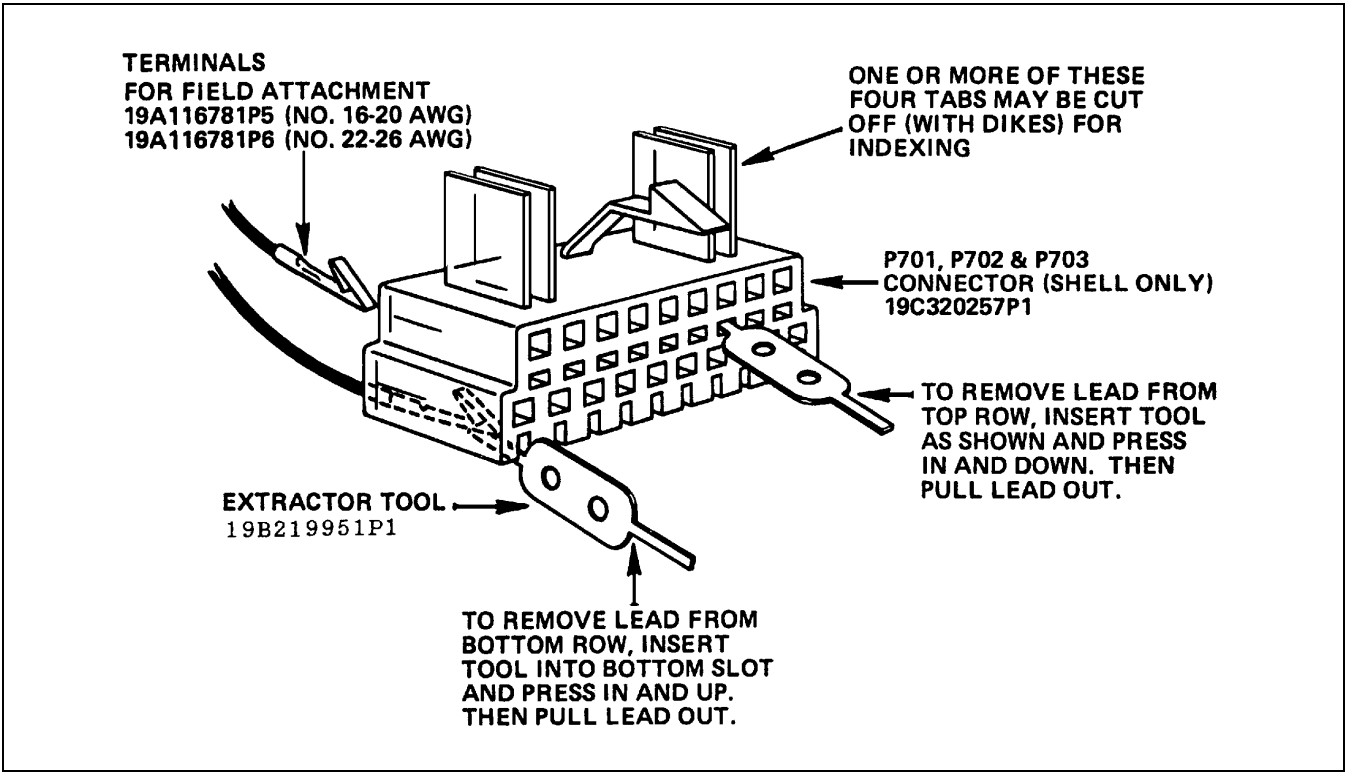


Figure 2 - Using Extraction Tool

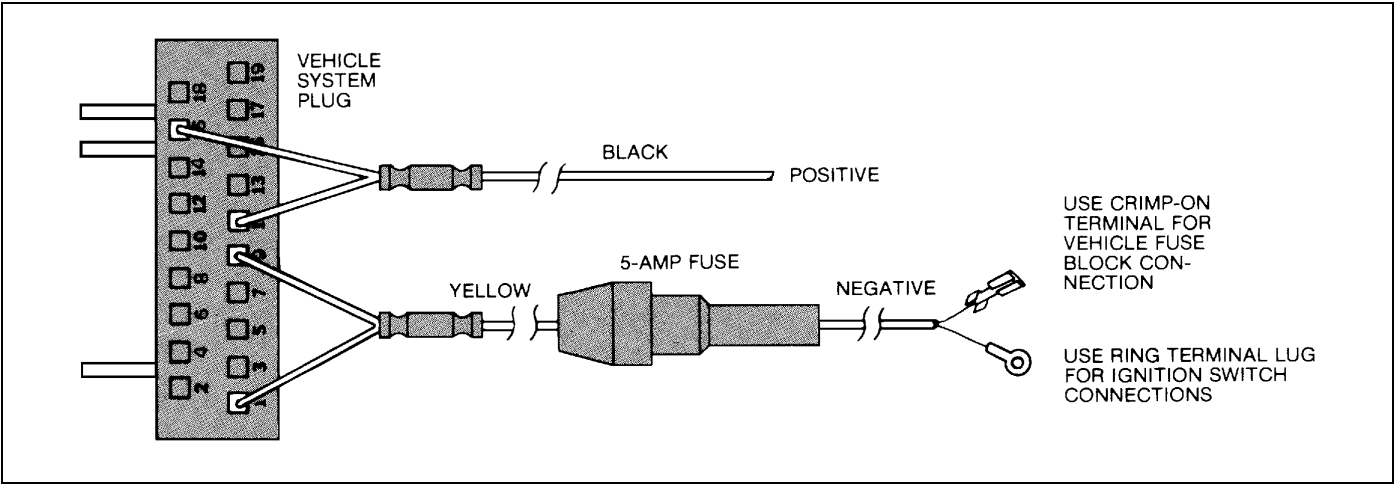


Figure 4 - 12-Volt, Positive Ground Connections (MASTR II only)

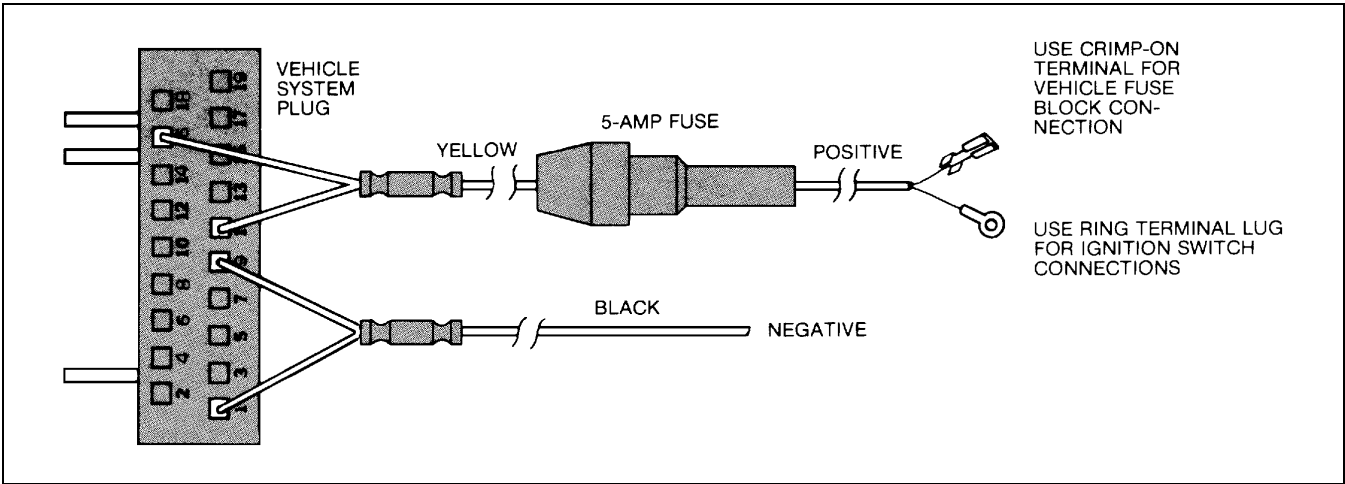
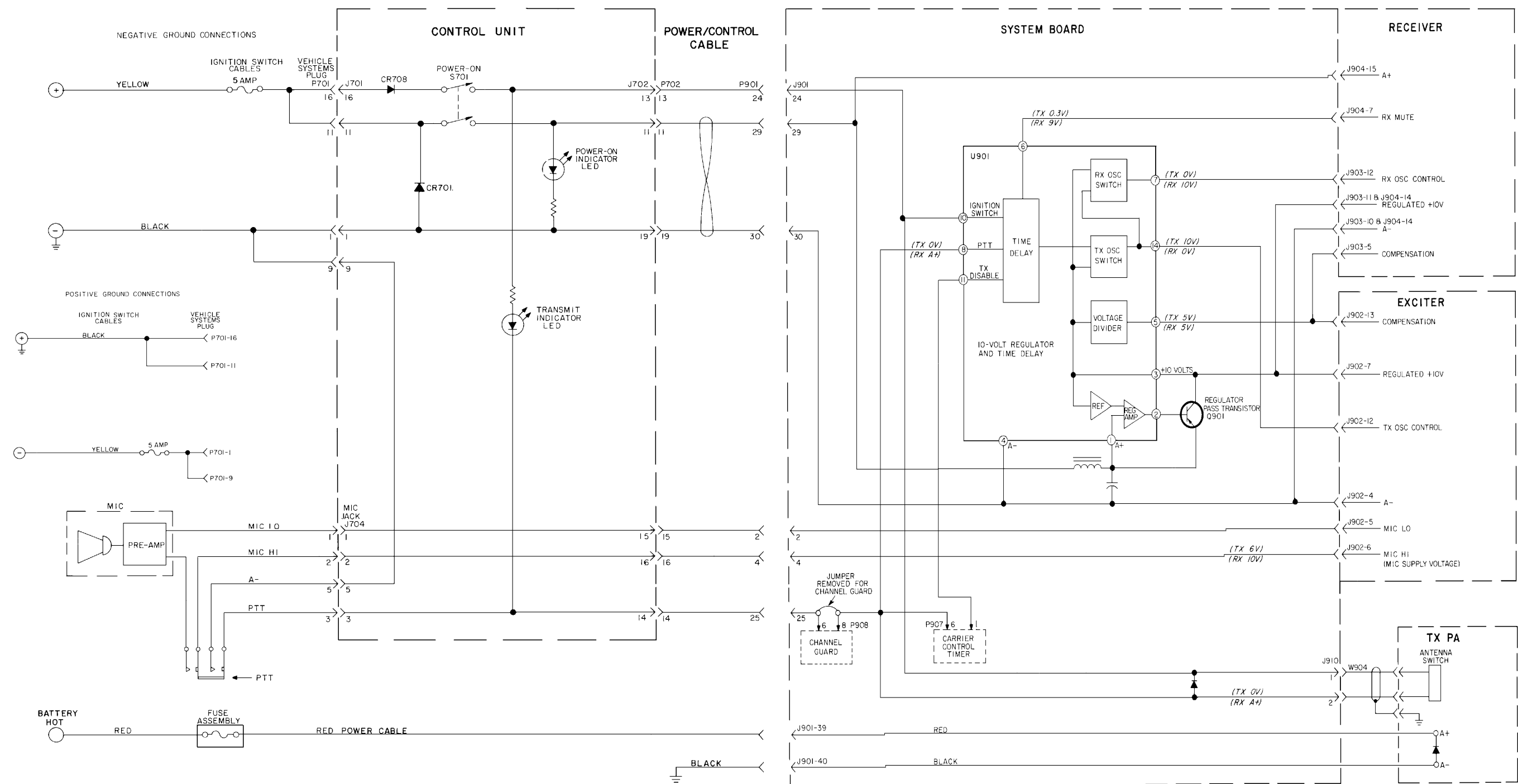
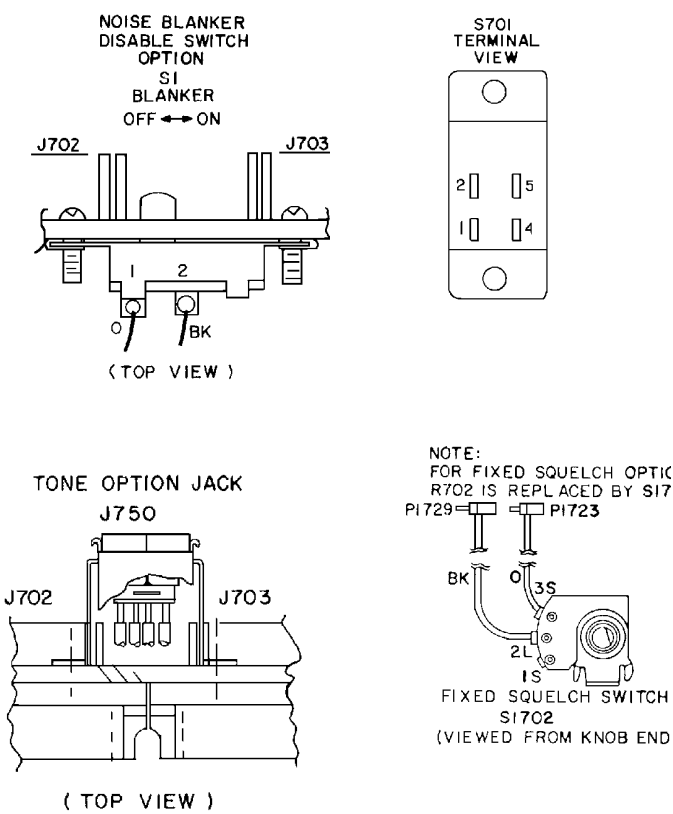
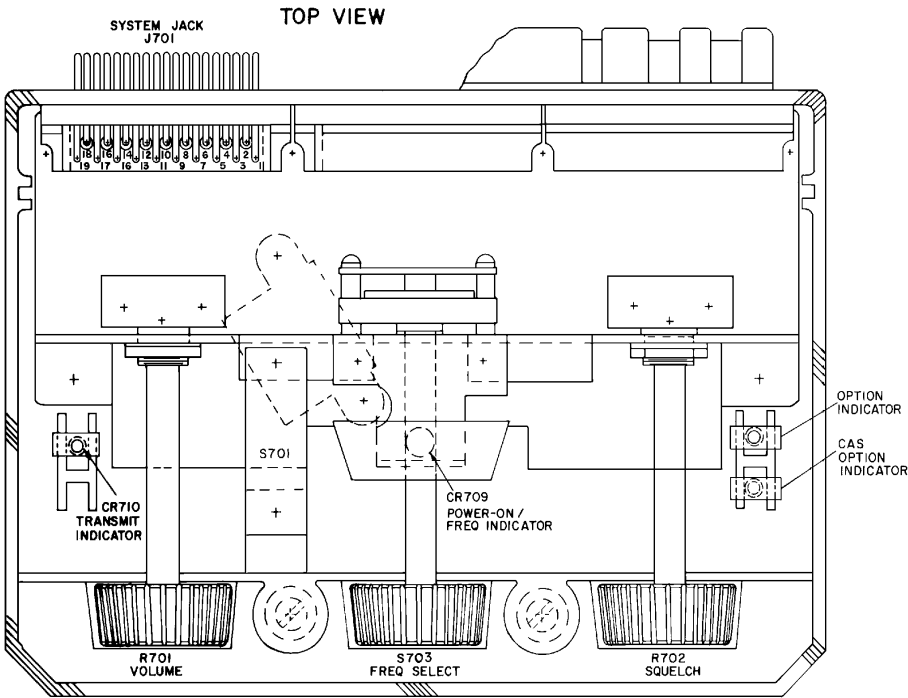


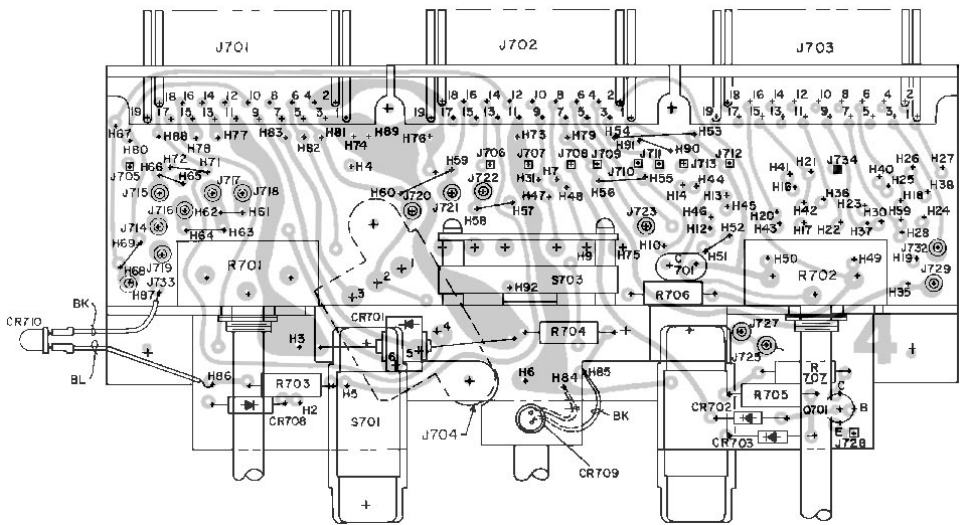
Figure 3 - 12-Volt, Negative Ground Connections



TRANSMITTER KEYING & POWER DISTRIBUTION DIAGRAM

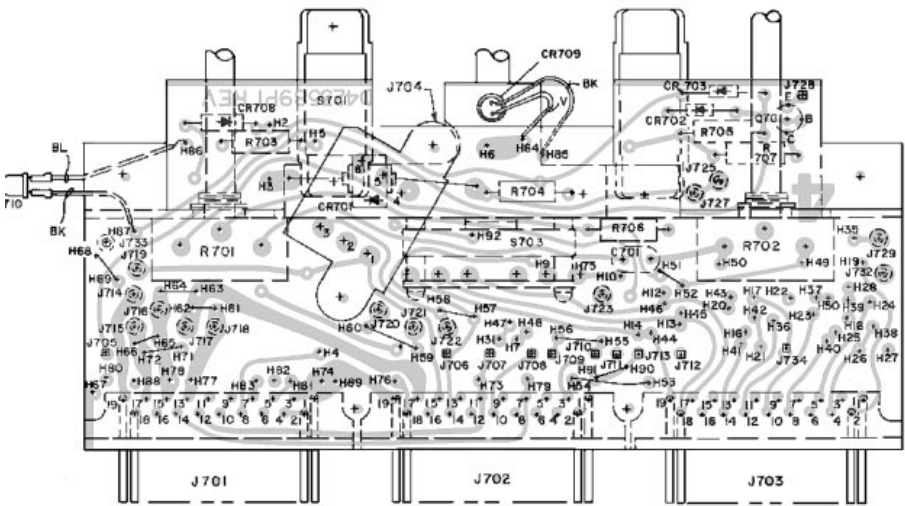


COMPONENT SIDE

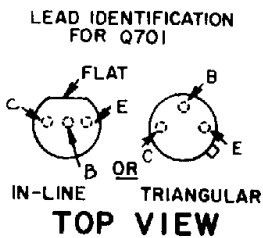
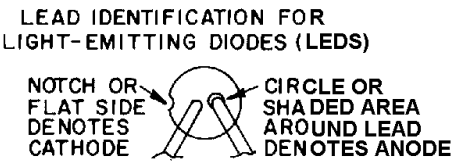
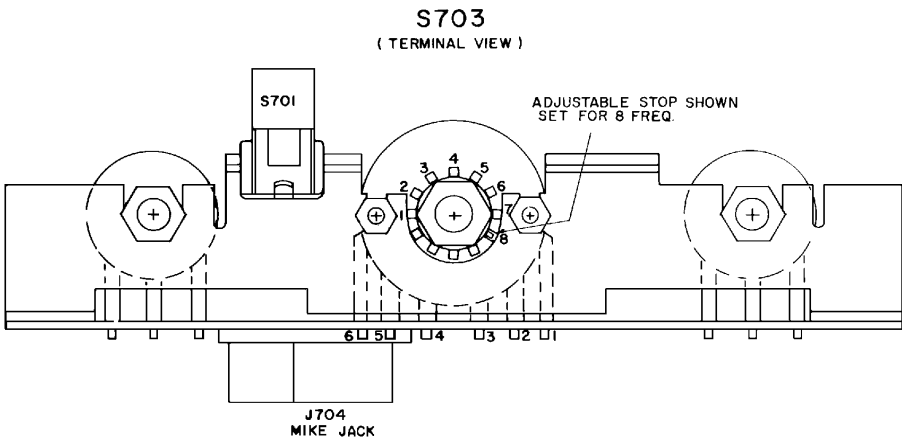


(19D423589, Sh. 2, Rev. 4)
(19D423589, Sh. 3, Rev. 4)

SOLDER SIDE



(19D423589, Sh. 2, Rev. 4)



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

- FREQUENCY SELECTOR SWITCH STOP SETTING
- IF THE NUMBER OF OPERATING FREQUENCIES ARE
CHANGED, IT WILL BE NECESSARY TO CHANGE THE STOP
SETTING ON THE FREQUENCY SELECTOR SWITCH, TO SET
THE STOP:
1. REMOVE THE TWO SCREWS ON THE BOTTOM OF THE FRONT
EDGE OF THE CONTROL UNIT, AND LIFT THE TOP COVER OFF.
 2. REMOVE THE TWO MOUNTING SCREWS ON THE POWER-ON/
FREQUENCY INDICATOR (CR709) RETAINER AND MOVE THE
INDICATOR AND RETAINER TO ONE SIDE.
 3. LOOSEN AND SLIDE BACK ON THE FREQUENCY SELECTOR
SWITCH SHAFT THE 3/8 INCH NUT AND WASHER HOLDING
THE STOP IN PLACE.
 4. ROTATE THE FREQUENCY SELECTOR SWITCH FULLY COUNTERCLOCK-
WISE TO THE FIXED STOP (CHANNEL 1 ON THE FREQUENCY
SELECTOR SWITCH INDICATOR).
 5. PLACE THE ADJUSTMENT STOP IN THE STOP POSITION
CORRESPONDING TO THE DESIRED NUMBER ON OPERATING
FREQUENCIES.
 6. REPLACE THE 3/8 INCH NUT AND WASHER, THE POWER-ON/
FREQUENCY INDICATOR RETAINER AND MOUNTING SCREWS,
AND THE CONTROL UNIT TOP COVER AND RETAINING SCREWS.
 7. CHECK THE FREQUENCY SELECTOR SWITCH FOR PROPER OPERATION.

PARTS LIST

LBI30256F
C-500 SERIES CONTROL UNIT
19D423590G3 (1-FREQ)
19D423590G4 (8-FREQ)
AND
ASSOCIATED ASSEMBLIES

SYMBOL	GE PART NO.	DESCRIPTION
		COMPONENT BOARD 19D423588G3 (1-FREQ) 19D423588G4 (8-FREQ)
		- - - - - CAPACITORS - - - - -
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 and CR703	19A115250P1	Silicon, fast recovery, 225 mA, 50 PIV.
CR708	4037822P1	Silicon, 1000 mA, 400 PIV.
CR710	19B219800G3	Diode, red light emitting.
		- - - - - JACKS AND RECEPTACLES - - - - -
J701 thru J703	19C320257P2	Pin wafer assembly: 19 contacts.
J704	19B219627G1	Connector: 6 contacts.
J705 thru J713	19A701785P1	Contact, electrical; sim to Molex 08-50-0404.
J714 thru J723	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 and J733	4033513P4	Contact, electrical: sim to Bead Chain L93-3.
J734	19A701785P1	Contact, electrical; sim to Molex 08-50-0404.
		- - - - - TRANSISTORS - - - - -
Q701	19A115910P1	Silicon, NPN; sim to Type 2N3904.
		- - - - - RESISTORS - - - - -
R701	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 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.
		- - - - - SWITCHES - - - - -
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 @ 28 VDC or 1 amp @ 110 VRMS; sim to Oak Mfg. Type "F".

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

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

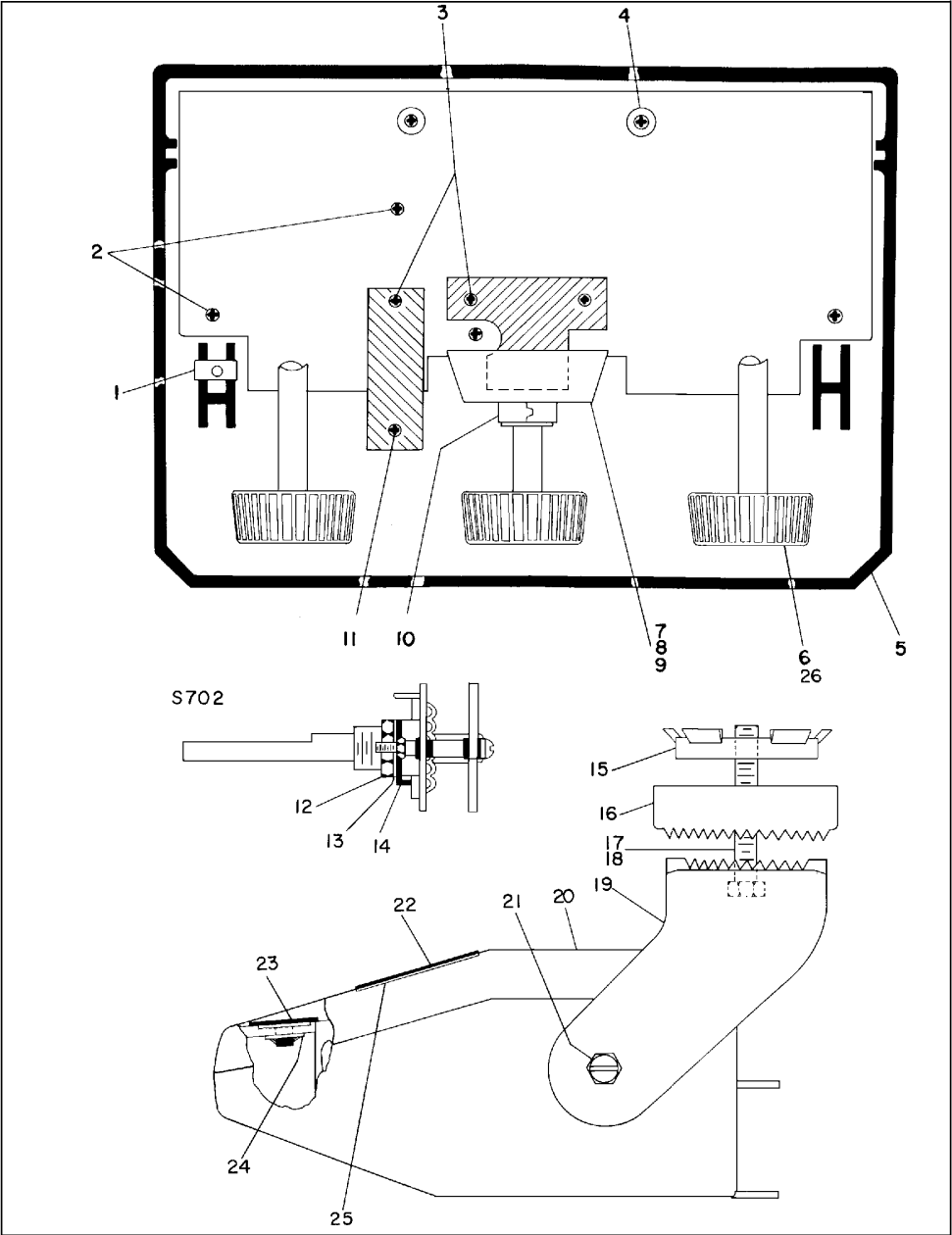
SYMBOL	GE PART NO.	DESCRIPTION
CR709	19A134354P4	FREQUENCY INDICATOR LIGHT ASSEMBLY 19B219896G3
		- - - - - DIODES AND RECTIFIERS - - - - -
		Diode, optoelectronic: Green; sim to Hew. Packard 5082-4992.
CR706	19B219800G19 19A116807P1	CHANNEL BUSY OPTION 19A129567G6
		- - - - - DIODES AND RECTIFIERS - - - - -
		Diode, light emitting: yellow. Clip, spring tension. (Secures CR706).
S1	19B219988G1 4032480P1 N80P9006C6	NOISE BLANKER DISABLE OPTION 19A129567G7
		- - - - - SWITCHES - - - - -
		Slide: SPST, 1 pole, 2 positions, rated 0.5 amps VDC or 3 amps VAC @ 125; sim to Switchcraft 46202LH. Nut, sheet spring: sim to Vector Electronic Co. No. 440. (Secures S1). Machine screw: No. 4-40 x 3/8.
S1702	4033348P1 4033348P1 19A700113P87 19A129628G1	FIXED SQUELCH OPTION 19A129567G3
		- - - - - SWITCHES - - - - -
		SWITCH ASSEMBLY 19A129628G1
P1723 P1729	4033348P1 4033348P1 19A700113P87 19A129628G1	- - - - - PLUGS - - - - -
		Contact, electrical: sim to Bead Chain M12534. Contact, electrical: sim to Bead Chain M12534.
		- - - - - RESISTORS - - - - -
P750	19B227105G1 N80P9005C6 7141225P2 N404P11C6	Resistor, composition: 10K ohms \pm 5%, 1/2 w.
		- - - - - SWITCHES - - - - -
		Rotary: 1 section, 1 pole, 2 positions, non-shorting contacts, 2 amps @ 28 VDC or 1 amp @ 110 VRMS; sim to Oak Type "22" Series. (Includes P1723 & P1729).
P701	19B227105G1 N80P9005C6 7141225P2 N404P11C6	UNIVERSAL TONE JACK OPTION 19A129567G17
		- - - - - PLUGS - - - - -
		Connector, receptacle: 9 contacts; sim to Winchester M8S-LRN. Machine screw, phillips head: No. 4-40 x 5/16. Hex nut: No. 4-40. Lockwasher, internal: No. 4.
1 2 3 4 5 6	19A116807P1 19A116773P106 19B201074P204 N402P7C6 19C320389G1 19B219825G1	MECHANICAL PARTS (SEE RC2447)
		Clip, spring tension. Tap screw, POZIDRIV: 7-19 x 3/8. Tap screw, phillips POZIDRIV*: No. 4-40 x 1/4. Flatwasher, narrow: No. 6. Housing. Knob.

SYMBOL	GE PART NO.	DESCRIPTION
7	19C320175P1	Frequency indicator.
8	NP270754A	Nameplate. (1-12).
9	NP270754B	Nameplate. (OFF, A-H).
10	19A701900P1	Retainer strap: sim to Tinnerman C2386-020-1.
11	N117P9004C13	Tap screw: No. 4-40 x 1/4.
12	7165075P2	Hex nut, brass: thd. size No. 3/8-32.
13	7116130P9	Lockwasher: sim to Shakeproof 1220-2.
14	19A134017P1	Adjustable stop.
15	19B219578G1	Safety Release Disc.
16	19C320022P1	Retaining bracket.
17	N187P16010C6	Screw, hexhead, slotted: No. 10-32 x 5/8. (Quantity 1, used with safety release disc and retaining bracket).
18	N130P1612C6 N130P1624C6	Screw, hexhead, slotted: No. 10-16 x 3/4. (Quantity 3, used without safety release disc and retaining bracket).
19	19D416594P1	Screw, thread forming: No. 10-16 x 1-1/2. (Quantity 3 - used without safety release disc and retaining bracket for extra thick carpet).
20	19C331834G1	Mounting bracket.
21	N187P16010C6	Cover.
22	NP270753P1	Screw, hexhead, slotted: No. 10-32 x 5/8.
23	19B219626P1	Nameplate. (MASTR II SOLID STATE).
24	7140578P6	Knob plug. (Frequency switch S702).
25	19A130009P1	Nut, push on: sim to Tinnerman C318-012-67. (Used with item 23).
26	7160815P4	Diffuser.
P702	19B226516G1 19A116781P5 19A116781P6	(Not Used).
		ASSOCIATED ASSEMBLIES
		POWER/CONTROL CABLE 30 CONDUCTOR 19D423424G8
P703	19B226516G1 19A116781P5 19A116781P6	- - - - - PLUGS - - - - -
		Connector. Includes:
		Shell.
P901	19B226516G2 19A116781P6 19C307162P1 19A701376P1 19A701376P2 19A701376P3	Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106. (Quantity 4).
		Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108. (Quantity 15).
		Connector. Includes:
7139880P14 7142878G1 19B209245P103 19A134241P1 19C328122P1	19B226516G2 19A116781P6 19C307162P1 19A701376P1 19A701376P2 19A701376P3	Shell.
		Contact, electrical rated @ 4 amps; sim to AMP 350657-1. (Quantity 26).
		Contact, electrical rated @ 4 amps; sim to AMP 350656-1. (Quantity 4).
7139880P14 7142878G1 19B209245P103 19A134241P1 19C328122P1	19B226516G2 19A116781P6 19C307162P1 19A701376P1 19A701376P2 19A701376P3	Contact, electrical rated @ 35 amps; sim to AMP 350655-1. (Quantity 2).
		- - - - - MISCELLANEOUS - - - - -
		Cable: 27 conductor, 20 feet.
19B209245P103 19A134241P1 19C328122P1	19B209245P103 19A134241P1 19C328122P1	Clip loop. (Strain relief).
		Spacer.
		Jackscrew. (Used with P901).
19C328122P1	19C328122P1	Adapter. (Located between P901 & mounting surface).

SYMBOL	GE PART NO.	DESCRIPTION
P1	19C311409P1 19D413039P1 19D413039P2	POWER/CONTROL CABLE NEGATIVE GRD EXECUTIVE II INTERFACE 19C321890G1
		- - - - - PLUGS - - - - -
		Connector. Includes:
P702	19B226516G1 19A116781P5 19A116781P6	Shell.
		Connector Cover. (Nut side).
		Connector Cover. (Screw side).
P703	19B226516G1 19A116781P5 19A116781P6	Connector. Includes:
		Shell.
		Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.
P701	19B226516G3 19A129504G1 1R16P8 19A115776P6 19A115776P5 19A115776P7 19A115776P3 7491823P7 7491823P8 4029484P2 19A116849P1 19A116781P5	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108.
		Connector. Includes:
		Shell.
P701	19B226516G3 19A129504G1 1R16P8 19A115776P6 19A115776P5 19A115776P7 19A115776P3 7491823P7 7491823P8 4029484P2 19A116849P1 19A116781P5	Y Cable. (BLACK).
		FUSED LEAD ASSEMBLY 19A129480G3 (Used with 19B219537G4)
		Cartridge, quick blowing: 5 amps at 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.
P701	19B226516G3 19A129504G1 1R16P8 19A115776P6 19A115776P5 19A115776P7 19A115776P3 7491823P7 7491823P8 4029484P2 19A116849P1 19A116781P5	Fuseholder: sim to Bussmann 9835.
		Knob assembly: sim to Bussmann 9953 1/2.
		Spring: sim to Bussmann 1A1853.
P701	19B226516G3 19A129504G1 1R16P8 19A115776P6 19A115776P5 19A115776P7 19A115776P3 7491823P7 7491823P8 4029484P2 19A116849P1 19A116781P5	Contact: sim to Littelfuse 904-88. (Located inside fuseholder).
		Solderless terminal: wire size No. 16-14 AWG.
		Solderless terminal: wire size No. 16-14 AWG.
P701	19B226516G3 19A129504G1 1R16P8 19A115776P6 19A115776P5 19A115776P7 19A115776P3 7491823P7 7491823P8 4029484P2 19A116849P1 19A116781P5	Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
		Insulated splice.
		Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.
P701	19B226516G3 19A130117G1	DC CONVERTER IGNITION SWITCH CABLE 19B219537G3
		- - - - - PLUGS - - - - -
		Connector. Includes:
P701	19B226516G3 19A130117G1	Shell.
		Jumper.

SYMBOL	GE PART NO.	DESCRIPTION
1R16P3	19A115776P6 19A115776P5 19A115776P7 19A115776P3	FUSED LEAD ASSEMBLY 19A129480G1 (Used with 19B219537G3)
		Quick blowing: 1 amp at 250 v; sim to Littelfuse 312001 or Bussmann AGC-1.
		Fuseholder: sim to Bussmann 9835.
7491823P7 7491823P8 4029484P2	7491823P7 7491823P8 4029484P2	Knob assembly: sim to Bussmann 9953 1/2.
		Spring: sim to Bussmann 1A1853.
		Contact: sim to Littelfuse 904-88. (Located inside fuseholder).
19A116849P1 19A116781P5	19A116849P1 19A116781P5	Solderless terminal: wire size No. 16-14 AWG.
		Solderless terminal: wire size No. 16-14 AWG.
		Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
P701	19B226516G3 19A129504G1	Insulated splice.
		Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.
		OPTIONAL 12-VOLT 3-WIRE IGNITION SWITCH CABLE 19B219537G1
1R16P3	19A115776P6 19A115776P5 19A115776P7 19A115776P3	- - - - - PLUGS - - - - -
		Connector. Includes:
		Shell.
7491823P7 7491823P8 4029484P2	7491823P7 7491823P8 4029484P2	Y Cable. (BLACK).
		FUSED LEAD ASSEMBLY 19A129480G1 1 AMP (RED) (Used with 19B219537G1)
		Quick blowing: 1 amp at 250 v; sim to Littelfuse 312001 or Bussmann AGC-1.
19A116849P1 19A116781P5	19A116849P1 19A116781P5	Fuseholder: sim to Bussmann 9835.
		Knob assembly: sim to Bussmann 9953 1/2.
		Spring: sim to Bussmann 1A1853.
1R16P8	19A115776P6 19A115776P5 19A115776P7 19A115776P3	Contact: sim to Littelfuse 904-88. (Located inside fuseholder).
		Solderless terminal: wire size No. 16-14 AWG.
		Solderless terminal: wire size No. 16-14 AWG.
19A115776P6 19A115776P5 19A115776P7 19A115776P3	19A115776P6 19A115776P5 19A115776P7 19A115776P3	Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
		Insulated splice.
		Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.
7491823P7 7491823P8 4029484P2	7491823P7 7491823P8 4029484P2	FUSED LEAD ASSEMBLY 19A129480G2 5 AMP (YELLOW) (Used with 19B219537G1)
		Cartridge, quick blowing: 5 amps at 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.
		Spring: sim to Bussmann 9835.
19A116849P1 19A116781P5	19A116849P1 19A116781P5	Knob assembly: sim to Bussmann 9953 1/2.
		Spring: sim to Bussmann 1A1853.
		Contact: sim to Littelfuse 904-88. (Located inside fuseholder).
7491823P7 7491823P8 4029484P2	7491823P7 7491823P8 4029484P2	Solderless terminal: wire size No. 16-14 AWG.
		Solderless terminal: wire size No. 16-14 AWG.
		Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
19A116849P1 19A116781P5	19A116849P1 19A116781P5	Insulated splice.
		Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.

SYMBOL	GE PART NO.	DESCRIPTION
		25 - 50 MHz ANTENNA
	7491074P1	Antenna: includes stainless steel rod approx 96-1/2 inches long; ball tip; lockwasher; No. 10-32 hex socket set screw; sim to Antenna Specialists ASPA3BGE. (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	Adapter, antenna: approx 2-5/16 inches long. (Used with GE Dwg 7491074P1).
	4KY9A1	Loading coil: 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. Horseshoe plate. Newtronics 3323-3. Rubber gasket. Newtronics 3320.
		66 - 88 MHz ANTENNA 19C320111P3
	19C320111G1	Antenna base: 15 ft. cable with M2R22P1 connector with 7105381P1 adaptor; sim to Decibel Products DB718.
	19C320111G2	Antenna whip and spring base: sim to Decibel Products DB670A.
		132 - 512 MHz ANTENNA 19B209568P1
		Whip assembly. 068110-001. Whip nut assembly. 068047-001. Base nut assembly. 068048-001. "O" Ring (LARGE). 007059-122. Stud assembly. 068046-001. RG58/U Cable, 15 ft. 068115-001.
		800 - 870 MHz ANTENNA 19B209568P4
		Whip assembly. 068110-001. Whip nut assembly. 068047-001. Base nut assembly. 068048-001. "O" Ring (LARGE). 007059-122. Stud assembly. 068046-001. Plug, Type N; sim to UG536B/U.. Cable. (Included as part of complete antenna assembly only).
		12 VOLT FUSE ASSEMBLY 19B216021G4 (Fuses must be ordered separately)
		----- FUSES -----
F1	1R11P4	Quick blowing: 15 amps, 250 v; sim to Busseman NON15. (Used with 16-36 w MASTR II Mobiles).
F3	1R11P7	Quick blowing: 30 amps, 250 v; sim to Busseman NON30. (Used with 66-128 w MASTR II and EXECUTIVE II Mobiles).
F4	1R11P5	Quick blowing: 20 amps, 250 v; sim to Busseman NON20. (Used with 38-66 w MASTR II and 35-66 w EXECUTIVE II Mobiles).

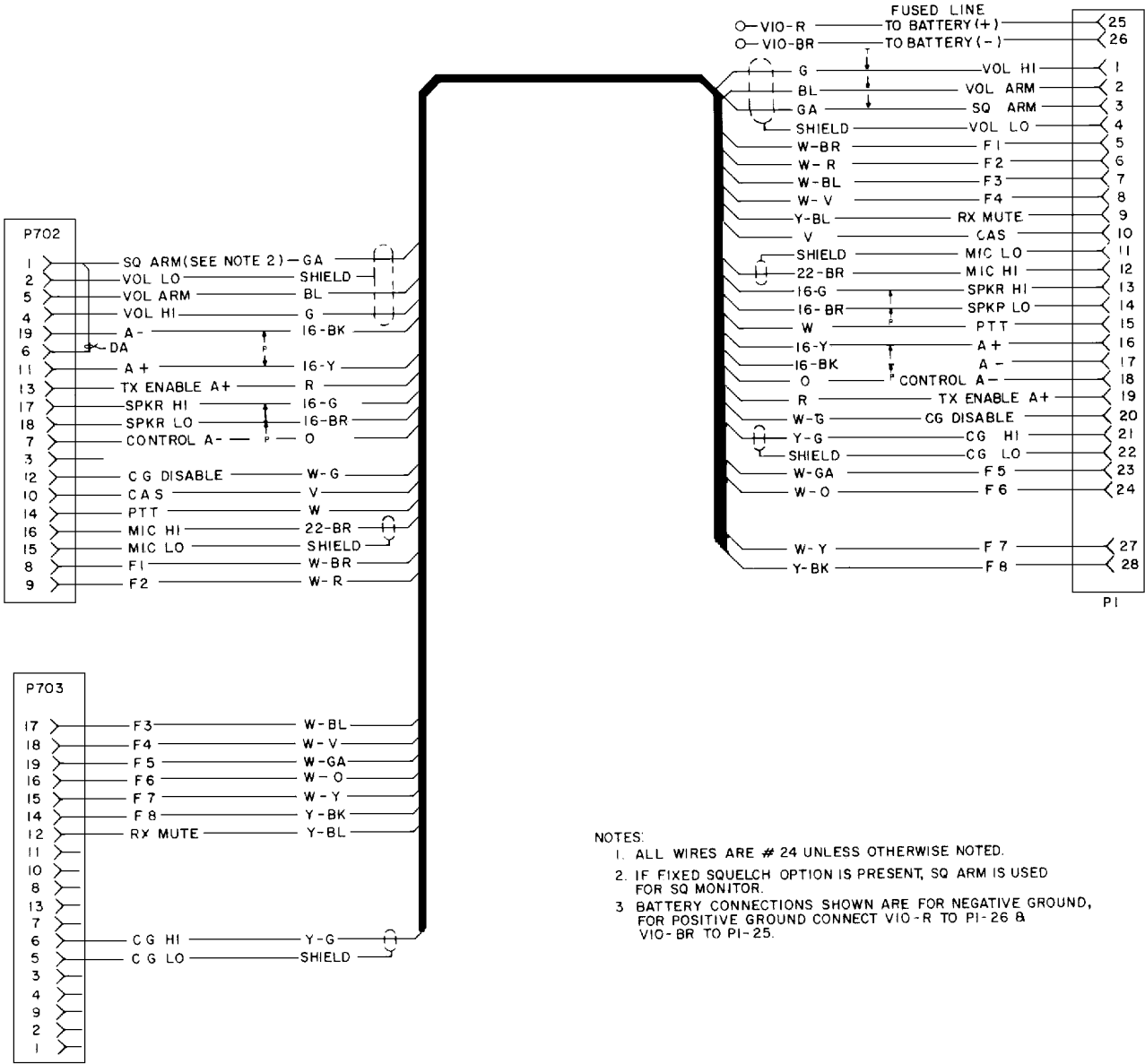


PRODUCTION CHANGES

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 previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

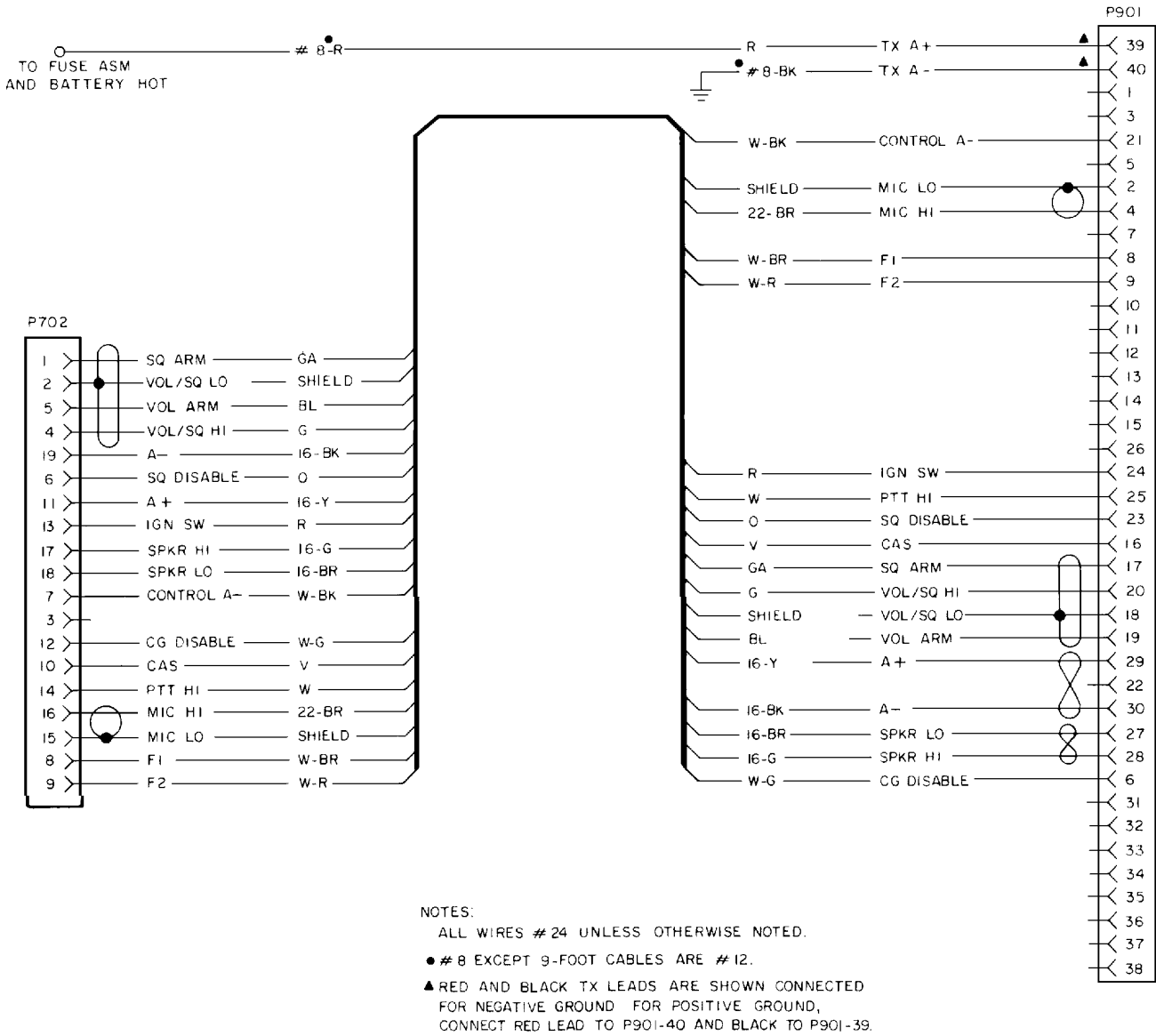
- REV. A - Channel Busy Option 19A129567G6
To provide a yellow channel busy indicator.
Replaced CR706. Cr706 was: 19B219800G2- Diode, red light emitting.
- REV. A - Component Board 19D423588G1, 2
Replaced DA jumper between H90-H91 with printed wire run.

POWER/CONTROL CABLE 19C321890G1



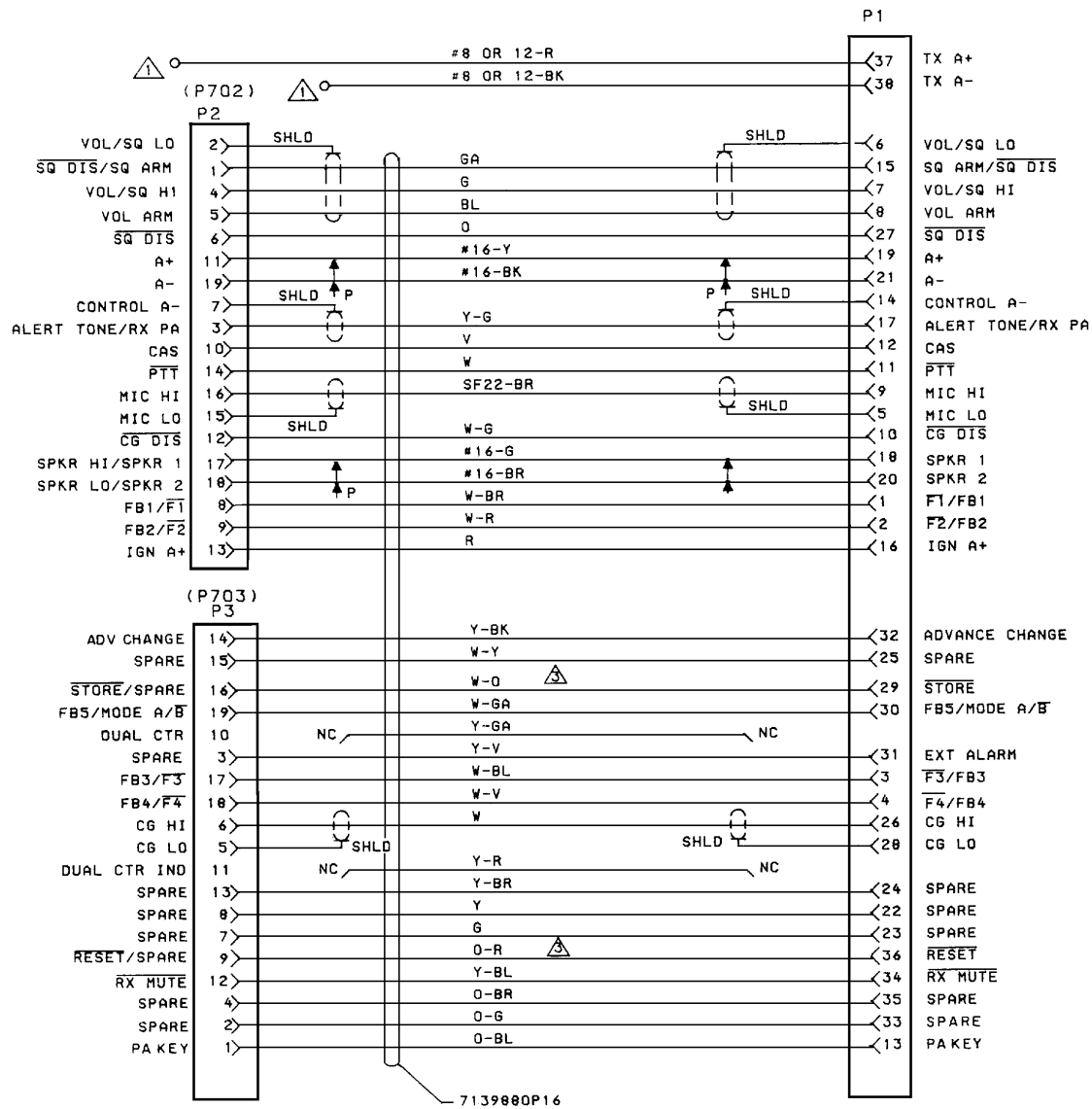
(19C321630, Rev. 4)

POWER/CONTROL CABLE 19D423424G2



(19C321783, Rev. 2)

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



(19D433081, Sh. 1, Rev. 7)

PARTS LIST

30 CONDUCTOR POWER/CONTROL CABLES
19D900447G1 3 METER SHORT GROUND
19D900447G2 3 METER LONG GROUND
19D900447G3 6 METER SHORT GROUND
19D900447G4 6 METER LONG GROUND
19D900447G5 9 METER SHORT GROUND
19D900447G6 9 METER LONG GROUND
ISSUE 2

SYMBOL	GE PART NO.	DESCRIPTION
P1	19D900037P1	Connector. Includes: Shell.
	19A701376P1	Contact, electrical rated @ 4 amps; sim to AMP 350657-1. (P1-1 thru 17, 26 thru 34).
	19A701376P2	Contact, electrical rated @ 4 amps; sim to AMP 350656-1. (P1-18 thru 21).
	19A701376P3	Contact, electrical rated @ 35 amps; sim to AMP 350655-1. (P1-37 & 38).
	19D900015P1	Housing.
	19C850508P1	Cover.
	19B800882P1	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).
P2	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).
	19B226516G1	Connector. Includes: 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).
	19B226516G2	Connector. Includes: 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).
	7139880P16	--- MISCELLANEOUS --- Cable, special purpose: 34 conductors. (Specify length).
P3	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
----- SWITCHES -----		
S1	19B209261P18	Slide: 1 pole, 2 positions, 0.5 amp VAC or 3 amp VAC at 125 v; sim to Switchcraft 46202LH. (Used in G3).
S2 and S3	19A116676P1	Sensitive: SPDT, 5 amps @ 24 VDC or 5 amps @ 250 VRMS; sim to Microswitch 111S M1-T2. (Used in G5).
S5	19A116676P1	Sensitive: SPDT, 5 amps @ 24 VDC or 5 amps @ 250 VRMS; sim to Microswitch 111S M1-T2. (Used in G5).
S6	19A134398P1	Push: sim to Chicago Switch S-1527-1. (Used in G3).
----- CABLES -----		
W1	19A129414G1	2 conductor cable: approx 5 feet long, includes (2) 19A116781P5 contacts. (Used in G3).
W2	19B219779G1	Cable: approx 4 ft. long. Includes: (5) 4036634P1 & (2) 19B209288P2 contacts. (Used in G5).
----- MISCELLANEOUS -----		
	19B219698G4	Housing. (Used in G3).
	19B219698G2	Housing. (Used in G5).
	19B219694P1	Base plate.
	19A702464P2	Bushing, strain relief: sim to Heyco SR-3P-4. (Used in G3).
	N193P1410C	Tap screw: No. 8-18 x 5/8. (Secures base plate to mounting surface).
	19A134398P101	Metal plate. (Used with S6).
	19C320301P1	Support. (S1).
	19B219693P2	Spring, hookswitch. (Used with S1).
	19B800608P527	Rivet. (Secures S1 spring).
	19B800608P477	Rivet. (Secures S1).
	7147223P2	Clip loop. (Used in G5).

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

PARTS LIST

LBI4488D
SPEAKER
19C320302G1

SYMBOL	GE PART NO.	DESCRIPTION
----- LOUDSPEAKERS -----		
LS1	19A116694P1	Permanent magnet: 5 inch, 8 ohms +10% imp, 20 w. max operating; sim to Oaktron 5EU2189-2. (Used in G1, G6, & G8).
LS2	19A116910P1	Permanent magnet: 5 inch, 3.2 ohms +15% imp, 5 w. max operating; sim to Pioneer 002009. (Used in G2-G5, G7, G9-G12).
----- CABLES -----		
W1	19A129414G1	2 conductor cable: approx 5 feet long, includes (2) 19A116781P5 contacts. (Used in G1, G9-G12).
W2	19A122167G1	Cable assembly: approx 4 feet long. (Used in G2, G5, & G8). Includes:
P702	5493018P2	Plug: 5 contacts, sim to Cinch 204-31-05-010.
	5491563P4	Cover; sim to Methode C8C0-V.
W3	19A121546G1	Cable: approx 4 feet long. (Includes (2) 19A121429P1 pins - Used in G3 & G4).
W4	19A130648G1	Cable assembly: approx 5 feet long. (Used in G6). Includes:
P1		Connector. Includes:
	19B209288P16	Shell.
	5496809P18	Contact, electrical. (Quantity 2).
W5	19A136574G1	Cable assembly: approx 4 feet long. Includes (2) 19A115884P8 contacts.
----- MISCELLANEOUS -----		
	19B219692G1	Grille. (Used in G1, G4-G7, & G10).
	19B219692G2	Grille. (Used in G2, G8, & G9).
	19B219692G3	Grille. (Used in G3).
	19B219692G4	Grille. (Used in G11).
	19B219692G5	Grille. (Used in G12).
	19B227593G1	Housing. (Used in G1, G4-G7, & G10).
	19B227593G2	Housing. (Used in G2, G8, & G9).
	19B227593G3	Housing. (Used in G3).
	19B227593G4	Housing. (Used in G11).
	19B227593G5	Housing. (Used in G12).
	19C320016P1	Mounting bracket. (Located between housing & retaining bracket).
	19C320022P1	Retaining bracket. (Located between mounting bracket & safety release disc).
	19B219578G1	Safety Release Disc.
	19A116986P108	Screw, thread forming, assembled washer: Phillips POZIDRIV®, HI-LO thread, No. 7-19 x 1/2. (Secures speaker to housing).
	19A116986P112	Screw, thread forming, assembled washer: Phillips POZIDRIV®, HI-LO thread, No. 7-19 x 3/4. (Secures grille to housing).
	N187P16010C6	Machine screw: No. 10-32 x 5/8. (Secures mounting bracket to housing - Used with safety release disc, retaining bracket).
	N710P16012C6	Screw, hexhead, slotted: No. 10-16 x 3/4. (Quantity 3 - Used without safety release disc & retaining bracket).
	N187P16010C6	Machine screw, slotted: No. 10-32 x 5/8. (Used with safety release disc & retaining bracket).
	N130P16012C6	Tap screw, thd. forming: No. 10-16 x 3/4. (When mounting to regular surface).
	N130P16024C6	Tap screw, thd. forming: No. 10-16 x 1-1/2. Slotted hex head. (When mounting to extra thick mounting surface).

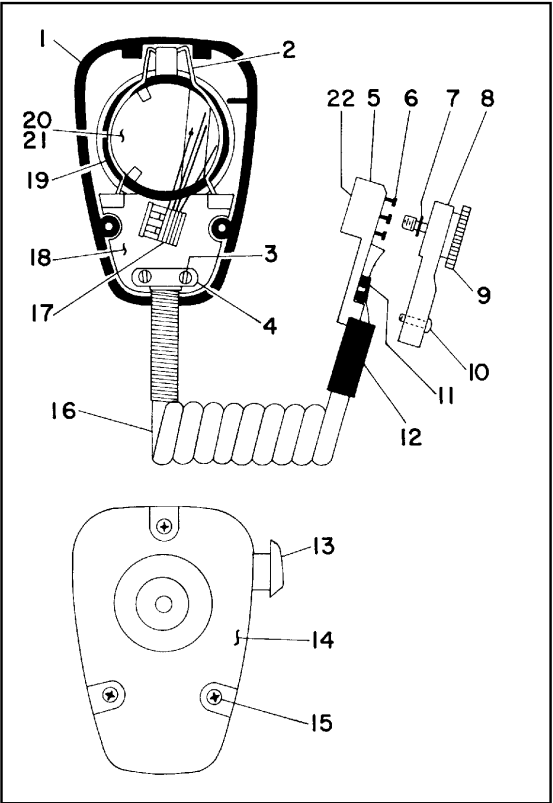
*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

PARTS LIST

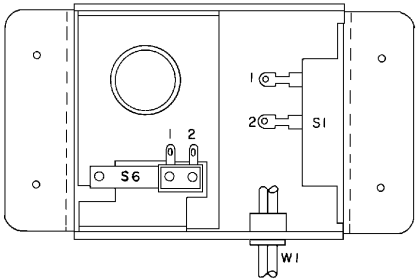
LBI4481D
TRANSISTORIZED DYNAMIC MICROPHONE
19C320270G1, G2
(SEE RC2454)

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 S10.
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 item 18).
22	19C321016G3	Connector Assembly: Includes items 5-12.

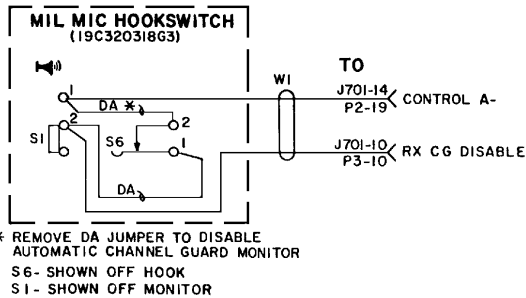
*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.



OUTLINE DIAGRAM



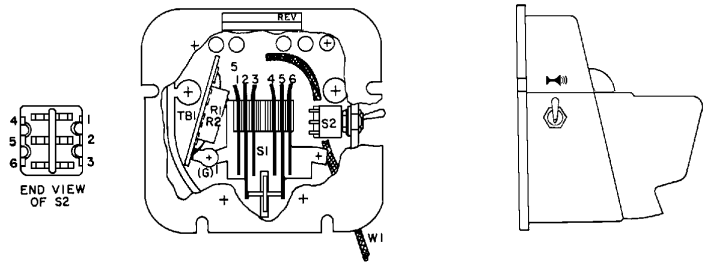
(19B227626, Rev. 0)



(19A136836, Rev. 2)

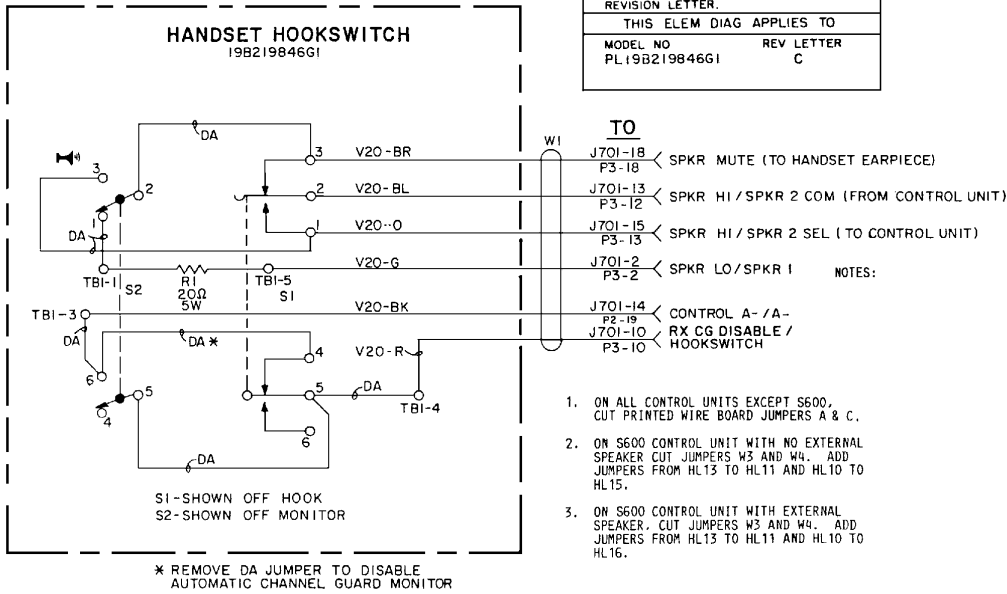
MODEL NO.	REV LETTER

OUTLINE DIAGRAM



(19B226131, Rev. 3)

SCHEMATIC DIAGRAM



SEE APPLICABLE PRODUCTION CHANGE SHEETS IN INSTRUCTION BOOK SECTION DEALING WITH THIS UNIT, FOR DESCRIPTION OF CHANGES UNDER EACH REVISION LETTER.

THIS ELEM DIAG APPLIES TO

MODEL NO REV LETTER

PL19B219846G1 C

- NOTES:
- ON ALL CONTROL UNITS EXCEPT S600, CUT PRINTED WIRE BOARD JUMPERS A & C.
 - ON S600 CONTROL UNIT WITH NO EXTERNAL SPEAKER CUT JUMPERS W3 AND W4. ADD JUMPERS FROM HL13 TO HL11 AND HL10 TO HL15.
 - ON S600 CONTROL UNIT WITH EXTERNAL SPEAKER, CUT JUMPERS W3 AND W4. ADD JUMPERS FROM HL13 TO HL11 AND HL10 TO HL16.

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

(19B219842, Sh. 1, Rev. 11)

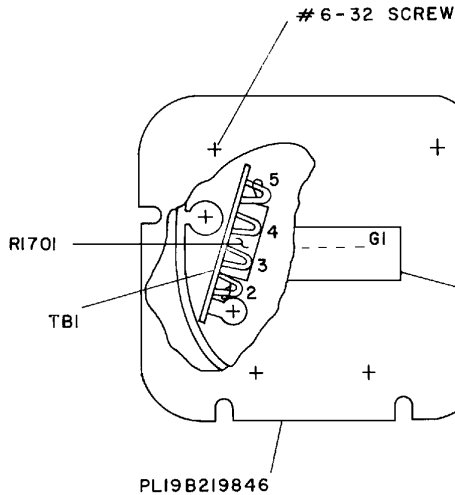
PARTS LIST

LBI4484H

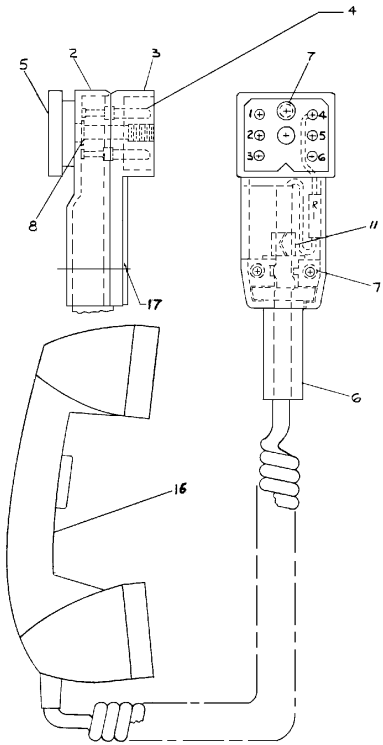
HANDSET HOOKSWITCH
19B219846G1

SYMBOL	GE PART NO.	DESCRIPTION
----- RESISTORS -----		
R1*	5493035P55	Wirewound: 20 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR.
	5493035P11	In REV A: Wirewound: 40 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR.
	5493035P12	Earlier than REV A: Wirewound: 60 ohms $\pm 5\%$, 5 w; sim to Hamilton Hall Type HR.
----- SWITCHES -----		
S1	19A129585G1	Holder and switch: Thermoplastic case, contact rating 1 amp at 125 v.
S2	19A700189P6	Toggle: DPDT, 5 amps at 28 VDC or 115 VAC; sim to C & K Components 7201G. (CHANNEL GUARD DIS-ABLE).
----- TERMINAL BOARDS -----		
TB1	7775500P203	Phen: 5 terminals.
----- CABLES -----		
W1	19B219841G1	Cable: 6 conductor; approx 5 feet long.
----- MISCELLANEOUS -----		
	N190P1312C	Tap screw, phillips: No. 6-20 x 3/4. (Secures housing to base plate).
	N101P1510P	Tap screw, phillips: No. 8-15 x 5/8. (Used for mounting base plate).
	19A129588G1	Bumper, rubber. (2).
	19B219852P1	Base plate.
		EXECUTIVE II MODIFICATION KIT 19A136787G1
R1701	5493035P52	Resistor, wirewound: 8.2 ohms $\pm 10\%$, 5 w; sim to Hamilton Hall Type HR.
	19A136775P1	Label.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.



(19B227530, Rev. 2)



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

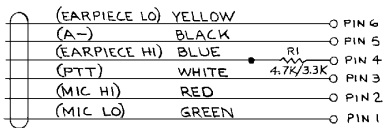
PARTS LIST

HANDSET ASSEMBLY - 6 CONDUCTOR

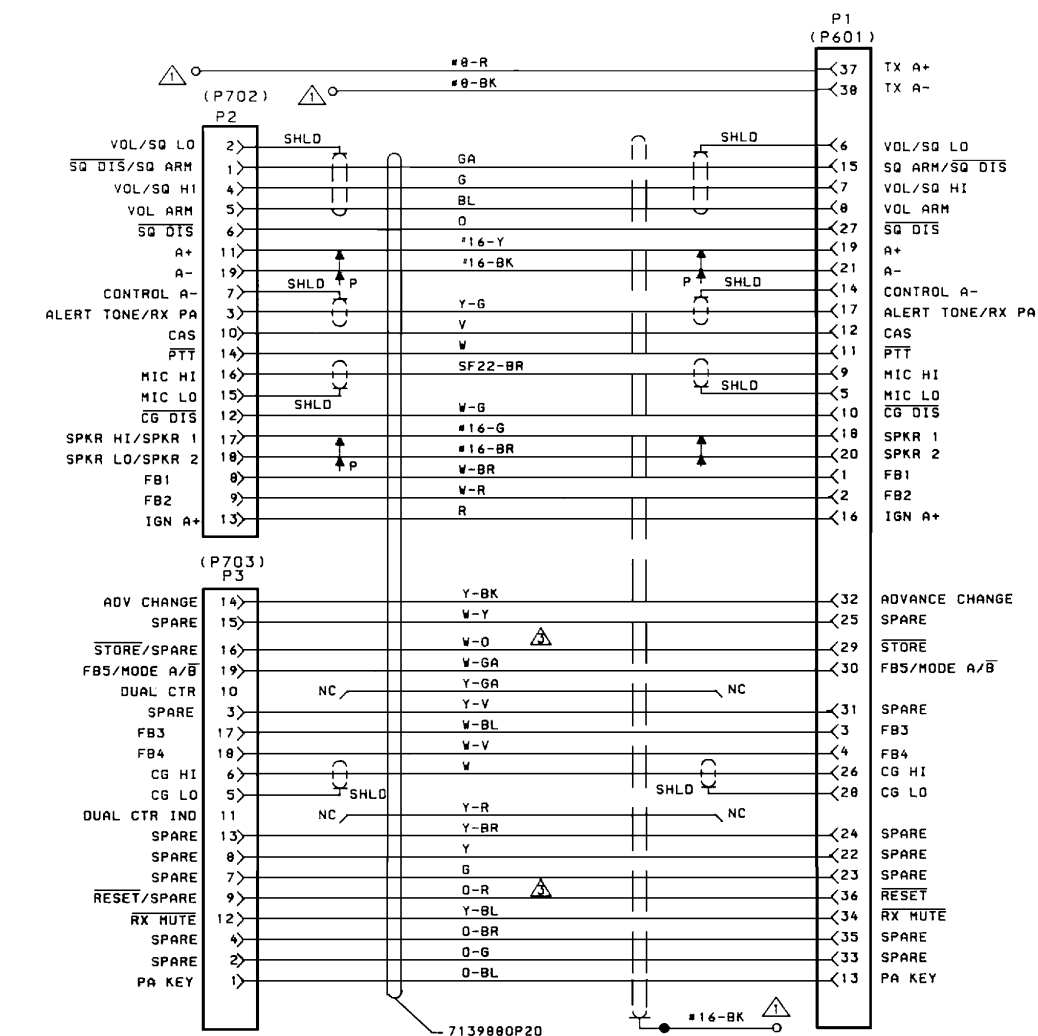
19C32047805 MASTR II

19C32047806 DELTA

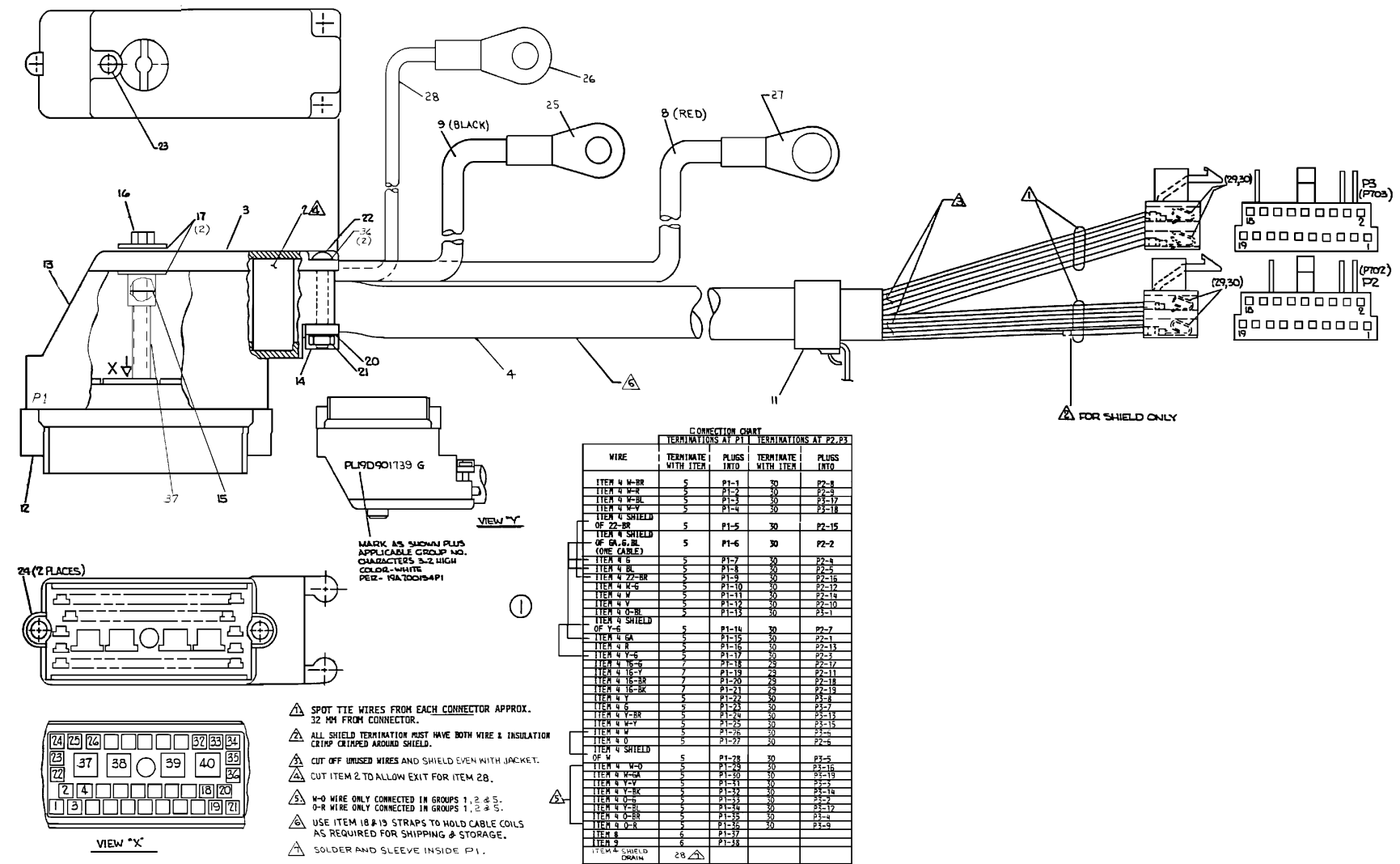
SYMBOL	GE PART NO.	DESCRIPTION
----- RESISTORS -----		
R1	19A700113P79	Composition: 4.7K ohms $\pm 5\%$, 1/2 w. (Used in G5).
R1	H212CRP233C	Deposited carbon: 3.3K ohms $\pm 5\%$, 1/4 w. (Used in G6).
----- MISCELLANEOUS -----		
2	19D416767P1	Connector Cover.
3	19D416766P1	Connector base.
4	19A129435G1	Pin, Contact.
5	19B219723G1	Thumb screw: lexan.
6	19B219749P1	Flex relief.
7	M136AP005Y6	Tap screw: No. 4-24 x 5/16.
8	19A701289P1	Retaining ring: 3/16 inches; sim to National Lockwasher WA 510.
11	19A116937P1	Cable clamp: sim to Malco 21012-3.
16	19B209468P5	Handset.
17	19A702594P2	Nameplate.



WIRING DIAGRAM.



- ⚠ ELECTRICALLY UNCONNECTED UNTIL INSTALLED BUT TERMINATED PER ASM 19D901739.
2. ALL WIRES ARE #SF24 AWG UNLESS OTHERWISE SPECIFIED.
- ⚠ FOR GROUPS 3,4&6 W-O AND O-R WIRES ARE NOT CONNECTED AT EITHER END.



- ⚠ SPOT TIE WIRES FROM EACH CONNECTOR APPROX. 32 MM FROM CONNECTOR.
- ⚠ ALL SHIELD TERMINATION MUST HAVE BOTH WIRE & INSULATION STRIP CLIPPED AROUND SHIELD.
- ⚠ CUT OFF UNUSED WIRES AND SHIELD EVEN WITH JACKET.
- ⚠ CUT ITEM 2 TO ALLOW EXIT FOR ITEM 28.
- ⚠ W-O WIRE ONLY CONNECTED IN GROUPS 1, 2 & 5.
- ⚠ O-R WIRE ONLY CONNECTED IN GROUPS 1, 2 & 5.
- ⚠ USE ITEM 18 & 19 STRAPS TO HOLD CABLE COILS AS REQUIRED FOR SHIPPING & STORAGE.
- ⚠ SOLDER AND SLEEVE INSIDE P1.

POWER/CONTROL CABLE
CONTROL UNIT TO DELTA MOBILE
19D901739G3