MOBILE RADIO

MASTR® II MAINTENANCE MANUAL

C-500 SERIES

1-FREQUENCY CONTROL UNIT - 19D423590G1

2-FREQUENCY CONTROL UNIT - 19D423590G2

SPECIFICATIONS *

Controls	Power-On Volume Squelch Channel Selector Switch (G2 only)
Indicators	Power On Light Transmit Light

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

GENERAL ELECTRIC

Maintenance Manual LBI-30238F

DATAFILE FOLDER - DF-4105

C-500 SERIES 1- AND 2-FREQUENCY CONTROL UNITS

TABLE OF CONTENTS

OPTIONS

DESCRIPTION	MODEL NUMBER
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

WARNING

Although the highest DC voltage in the radio is supplied by the vehicle battery, high current may be drawn under short circuit conditions. These currents can possibly heat metal objects such as tools, rings, watchbands, 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!

COMBINATION NOMENCLATURE

1st Digit	2nd Digit	3rd Digit	4th Digit	5th Digit	6th & 7th Digits	8th Digit
Mechanical Package	System Voltage	Channel Capacity	No. of operating Channels	Microphone or Handset	Options	Control Unit Series
F Control Unit w/Mounting Bracket only	**1** ±12 VDC MASTR II App.	**A** 1-Channel	**A** One	**1** None	**AA** Standard May apply four digit options that require no Control Unit Internal Jumper modifications	**5** C-500
G Control Unit w/Mounting Bracket, Cables and Speaker MASTR II App	**3** +12 VDC (Neg Gnd Only) EXEC II App.	**C** 2-Channel	**C** Two	**2** Standard Microphone		
H Control Unit w/Mounting Bracket, Cables and Speaker Exec II App.				**3** Standard Microphone w/CG Hook-switch		
				5 Noise Canceling Microphone		
				6 Noise Canceling Microphone w/CG Hook-switch		
				8 Handset (Decoder App)		

DESCRIPTION

MASTR® II 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 and indicator lights.

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.

CIRCUIT ANALYSIS

The Control Units are equipped with a VOLUME control, SQUELCH control and a POWER-ON rocker switch. The two-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.

Pressing the PTT switch on the microphone energizes the antenna switch, keys the transmitter, mutes the receiver, and lights the transmit indicator LED.

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

CR701 and CR708 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.

TWO-FREQUENCY SWITCH (S702)

The frequency select switch is a 12-position switch with a mechanical stop that limits rotation to two positions.

In two-frequency radios, the frequency selector switch selects the desired channel (1 or 2) 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.

IGNITION SWITCH CONNECTIONS

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 from 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.

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 screws 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.

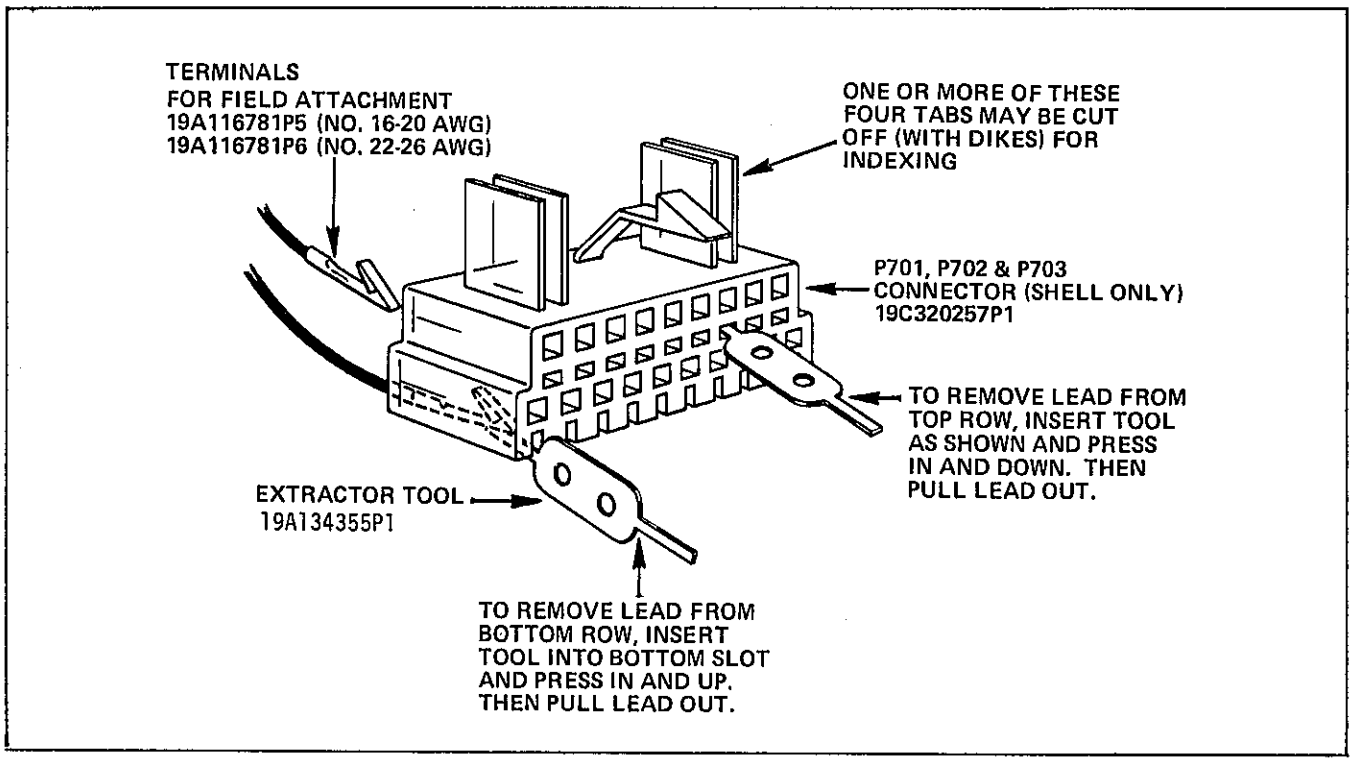


Figure 1 - Using Extraction Tool

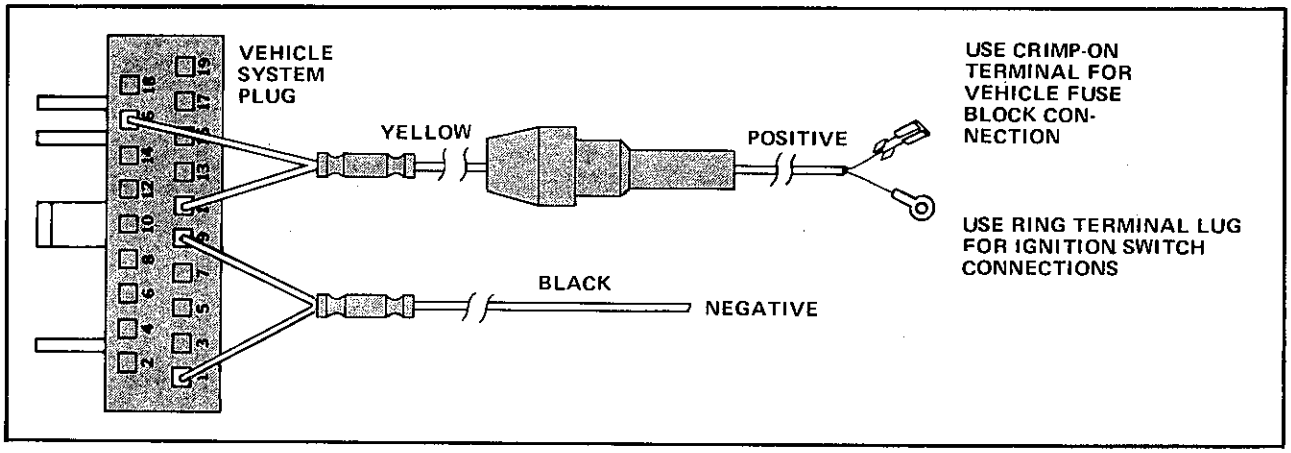


Figure 2 - 12-Volt, Negative Ground Connections

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

Standard MASTR II mobile combinations 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 systems plug (MASTR II only). Use the extraction tool as shown in Figure 1, and change the leads as shown in Figures 2 or 3 as required.

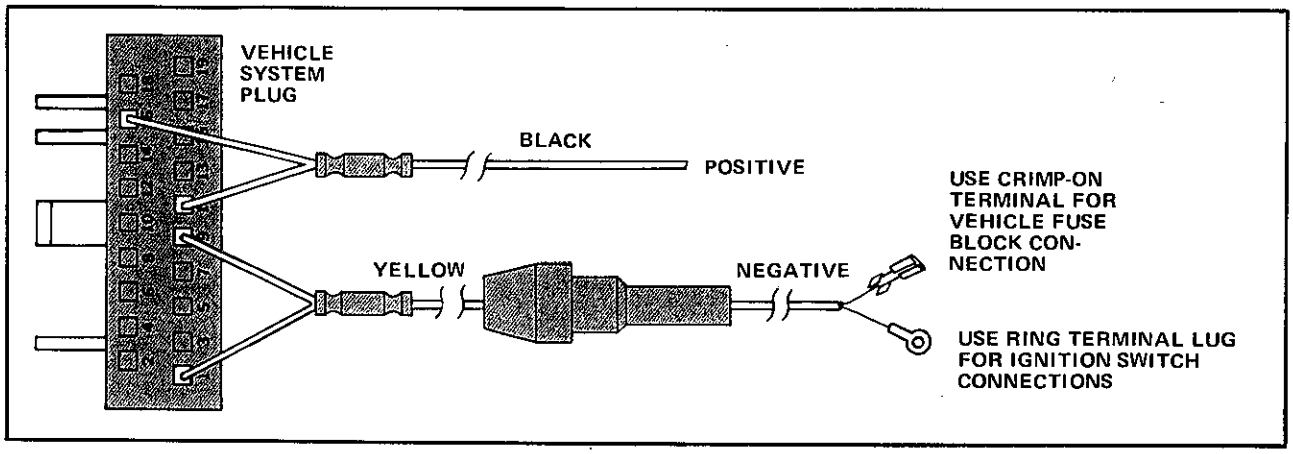
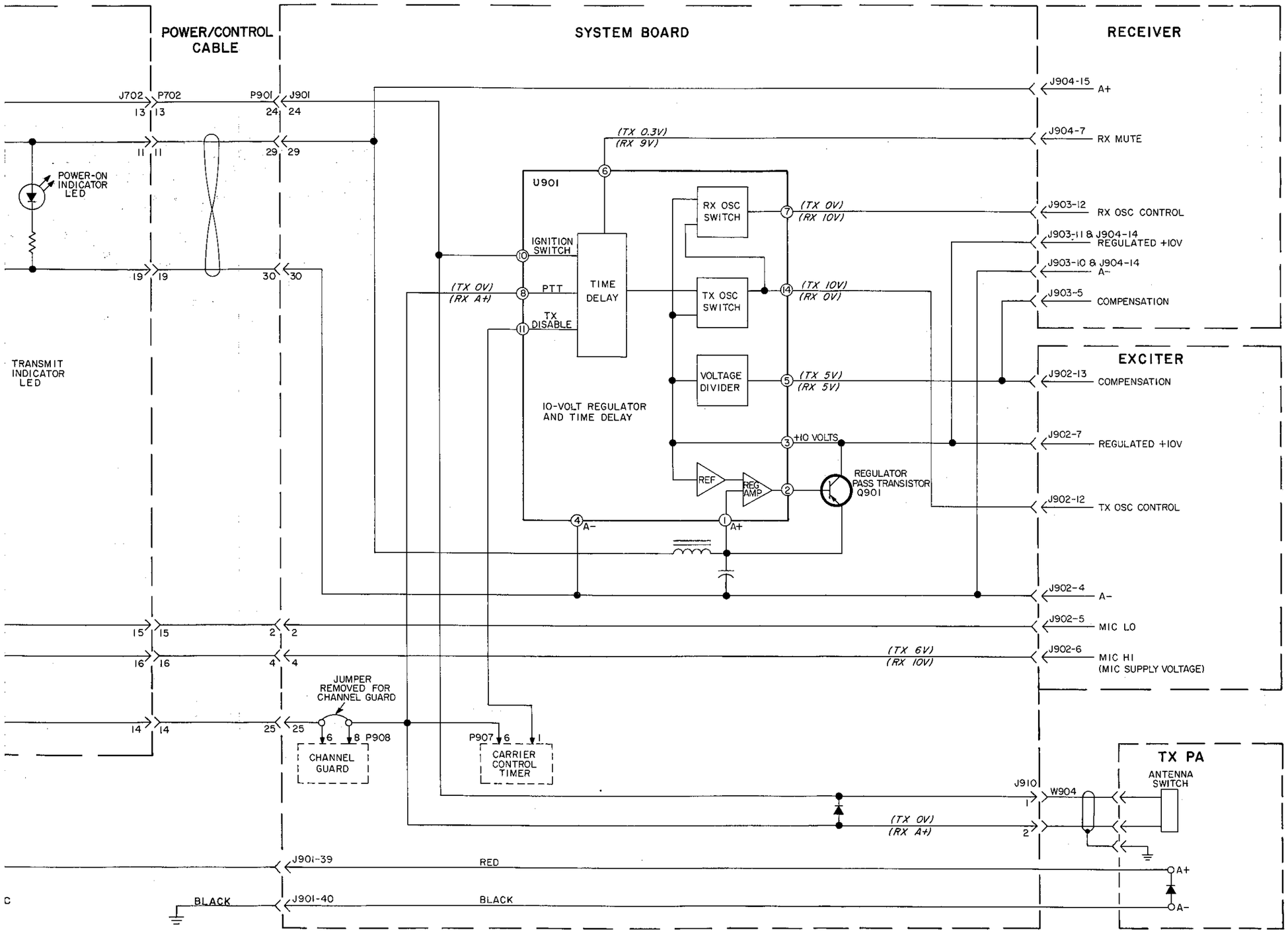


Figure 3 - 12-Volt, Positive Ground Connections (MASTR II only)

GENERAL ELECTRIC COMPANY • MOBILE COMMUNICATIONS DIVISION
WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502 U.S.A.

GENERAL ELECTRIC*
U.S.A.



TRANSMITTER KEYING & POWER DISTRIBUTION DIAGRAM

POSITIVE GROUND CONNECTIONS

IGNITION SWITCH CABLES

VEHICLE SYSTEMS PLUG

BLACK

P701-16

P701-11

YELLOW

5 AMP

P701-1

P701-9

NEGATIVE GROUND CONNECTIONS

CONTROL UNIT

POWER/CONTROL CABLE

SYST

IGNITION SWITCH CABLES

5 AMP

VEHICLE SYSTEMS PLUG

P701

J701

CR708

POWER-ON S701

J702

P702

P901

J901

YELLOW

16

11

CR701

POWER-ON INDICATOR LED

BLACK

1

9

19

30

29

TRANSMIT INDICATOR LED

U901

IGNITION SWITCH

PTT

TX DISABLE

(TX OV)
(RX A+)

TIMI
DELA

IO-VOLT REGU
AND TIME DE

A-

MIC

PRE-AMP

MIC JACK J704

MIC LO

MIC HI

A-

PTT

15

2

4

5

3

14

25

JUMPER REMOVED FOR CHANNEL GUARD

P908

P907

CHANNEL GUARD

CARRIER CONTROL TIMER

BATTERY HOT

RED

FUSE ASSEMBLY

RED POWER CABLE

J901-39

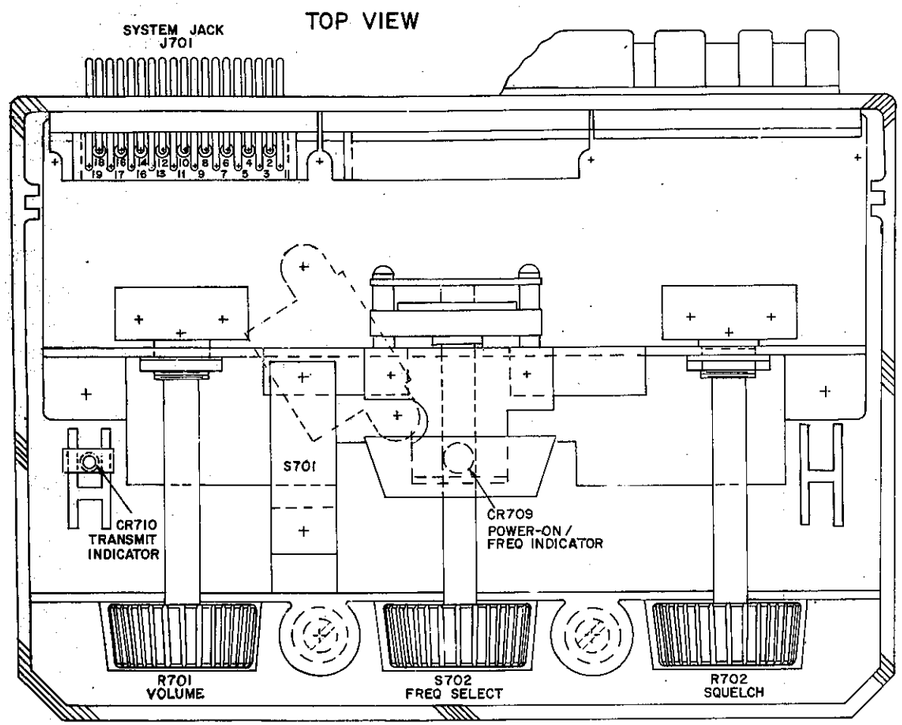
RED

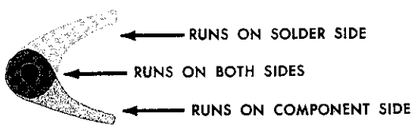
BLACK

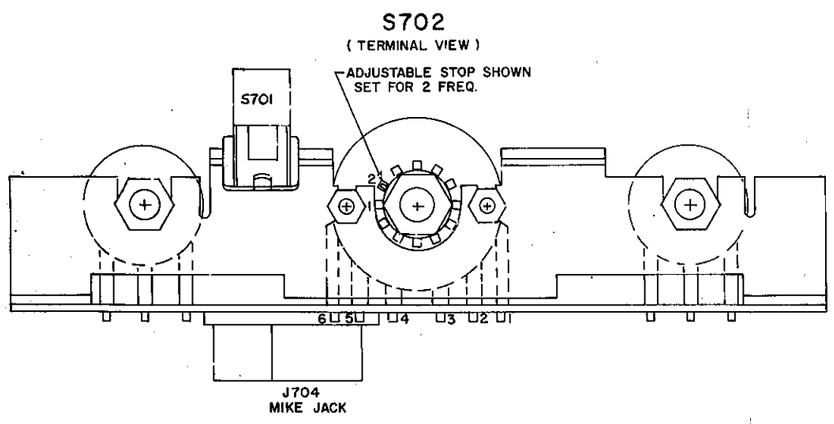
J901-40

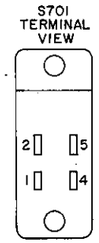
BLACK

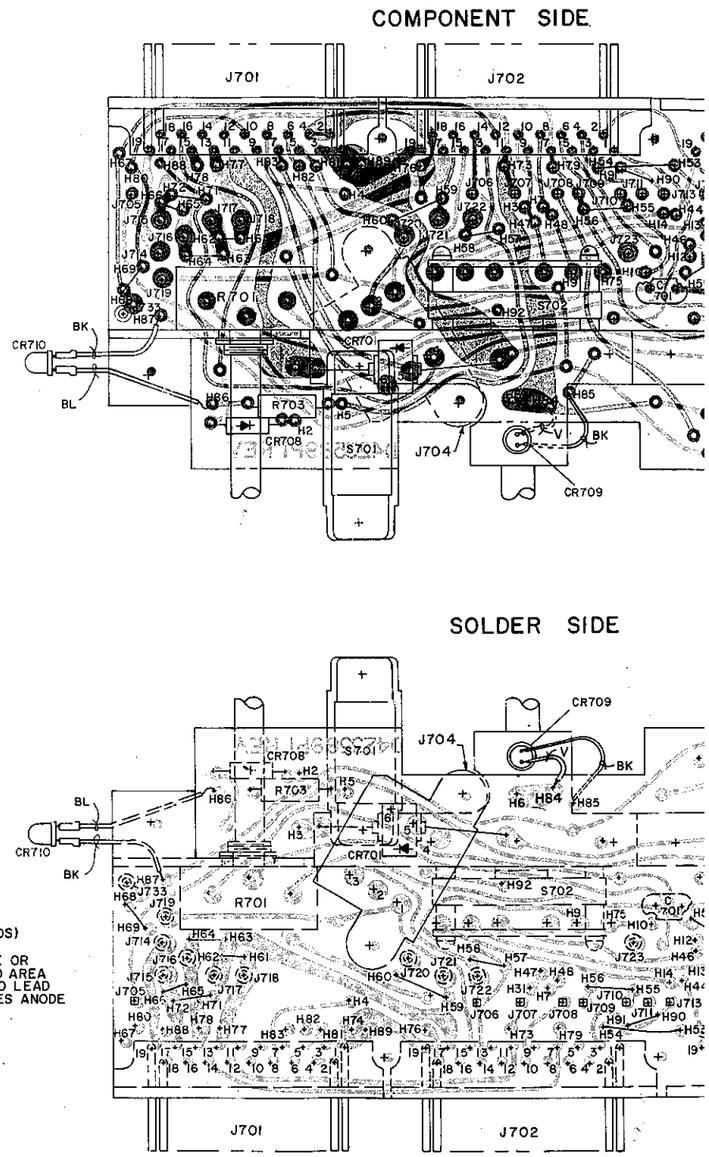
RC-2451C







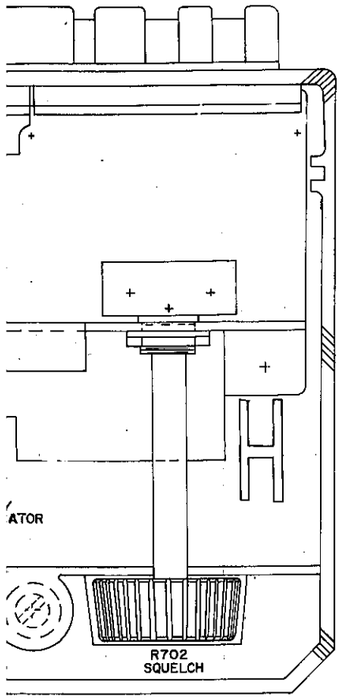


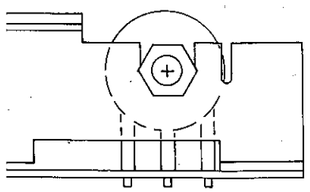


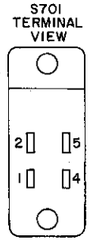
(19R622254, Rev. 2)

OUTLINE DIAGRAM

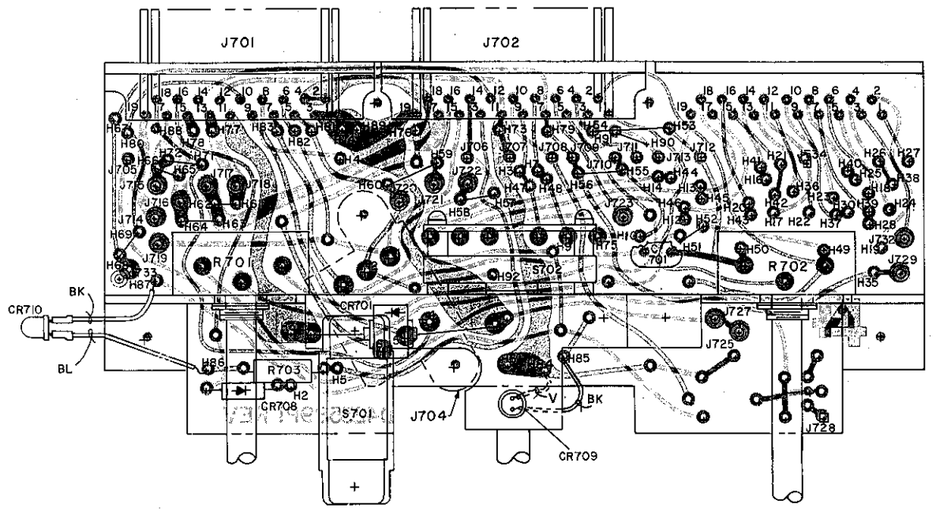
1 & 2 FREQUENCY CONTROL UNIT
19D423590G1 & G2





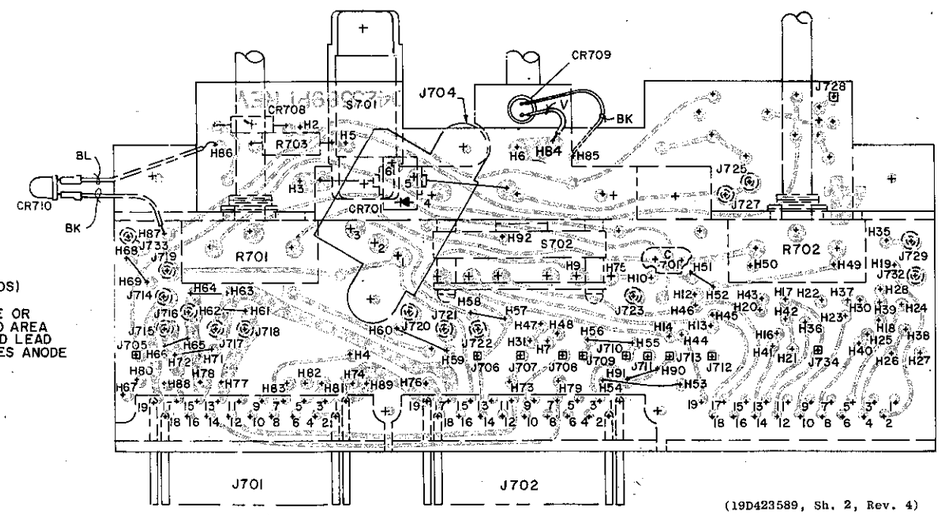


COMPONENT SIDE



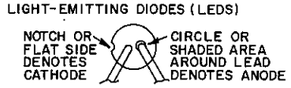
(19D423589, Sh. 2, Rev. 4)
(19D423589, Sh. 3, Rev. 4)

SOLDER SIDE



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

LEAD IDENTIFICATION FOR LIGHT-EMITTING DIODES (LEDS)

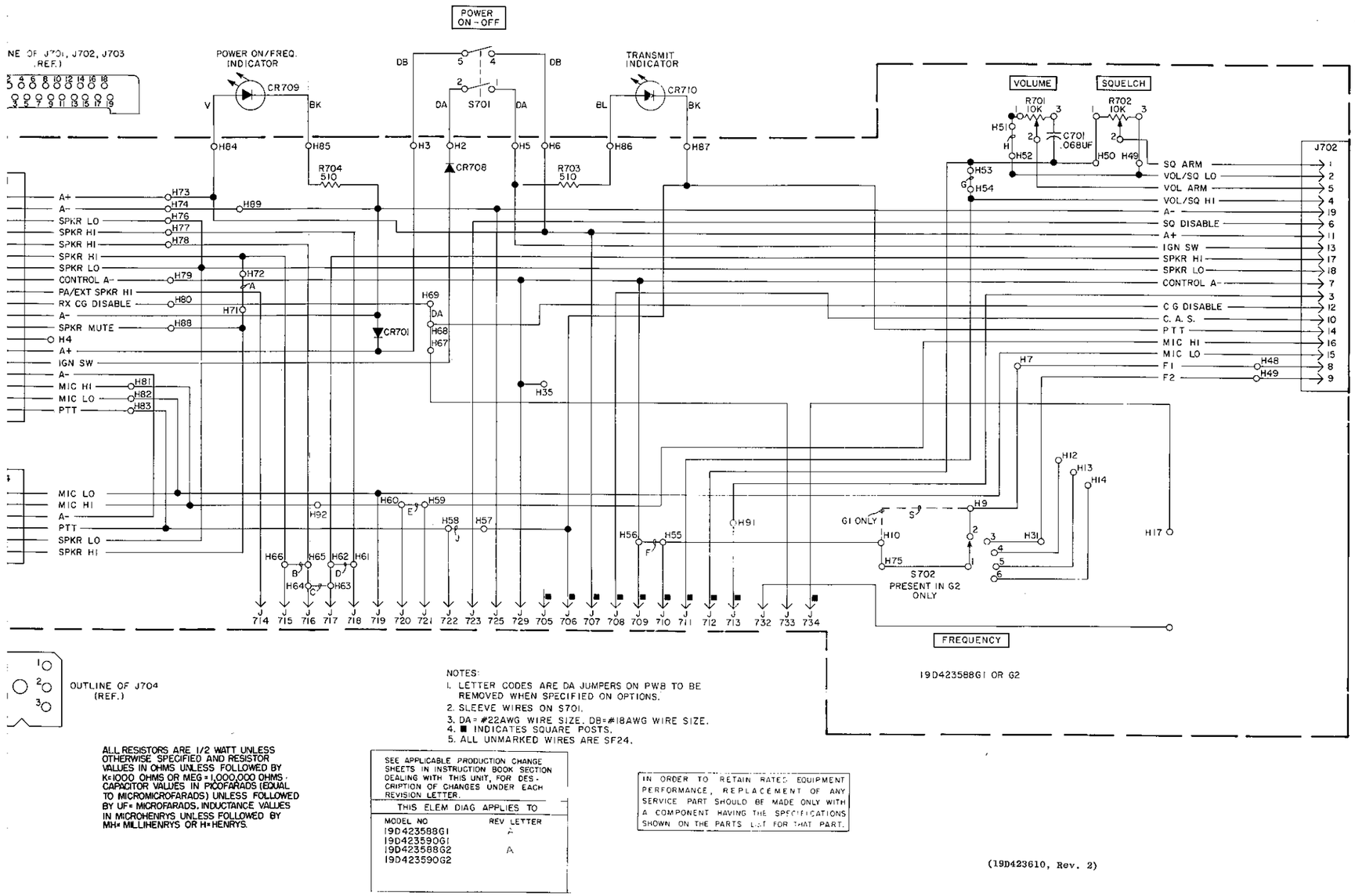


(19R622254, Rev. 2)

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 COUNTER-CLOCKWISE 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.



OUTLINE OF J704 (REF.)

NOTES:
1. LETTER CODES ARE DA JUMPERS ON PWB TO BE REMOVED WHEN SPECIFIED ON OPTIONS.
2. SLEEVE WIRES ON S701.
3. DA = #22AWG WIRE SIZE. DB=#18AWG WIRE SIZE.
4. ■ INDICATES SQUARE POSTS.
5. ALL UNMARKED WIRES ARE SF24.

19D423588G1 OR G2

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

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
19D423588G1	A
19D423590G1	
19D423588G2	A
19D423590G2	

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.

(19D423610, Rev. 2)

NOTES:
ALL WIRES # 24 UNLESS OTHERWISE NOTED.
● # 8 EXCEPT 9-FOOT CABLES ARE # 12.
▲ RED AND BLACK TX LEADS ARE SHOWN CONNECTED FOR NEGATIVE GROUND. FOR POSITIVE GROUND, CONNECT RED LEAD TO P901-40 AND BLACK TO P901-39.

(19C321783, Rev. 2)

SCHEMATIC DIAGRAM

1 & 2 FREQUENCY CONTROL UNIT 19D423590G1 & G2

Issue 3

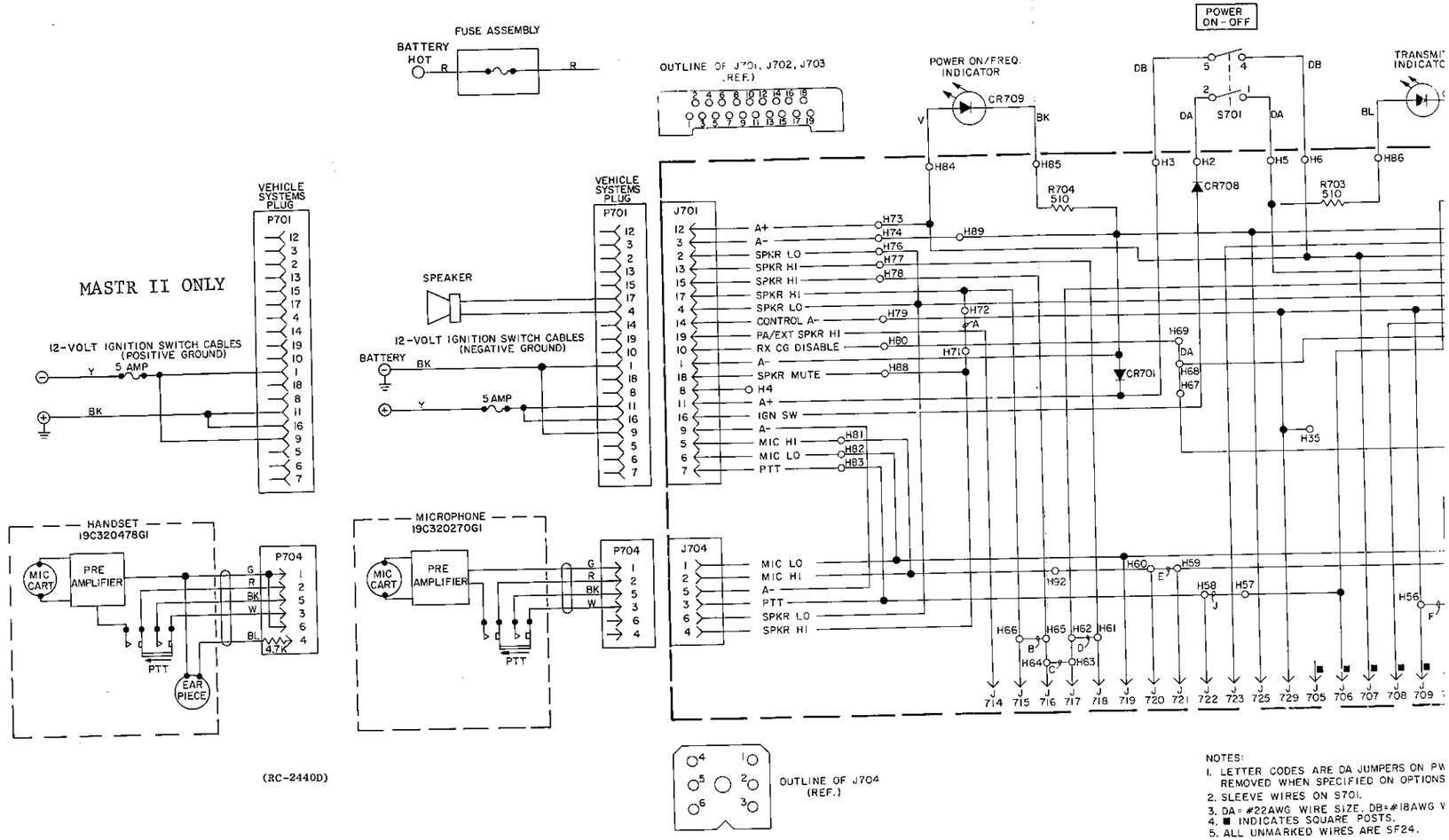
PARTS LIST

LBI30255D

C-500 SERIES CONTROL UNIT
19D423590G1 (1-FREQ)
19D423590G2 (2-FREQ)
AND
ASSOCIATED ASSEMBLIES

SYMBOL	GE PART NO.	DESCRIPTION
		COMPONENT BOARD 19D423588G1 (1-FREQ) 19D423588G2 (2-FREQ)
		- - - - - - - - - CAPACITORS - - - - - - - - - -
C701	19A143477P24	Polyester: 0.068 µf ±10%, 50 VDCW.
		- - - - - - - DIODES AND RECTIFIERS - - - - - - -
CR701	19A116783P1	Rectifier, silicon: 100 VDC blocking, 6 amps.
CR708	4037822P1	Silicon, 1000 mA, 400 PIV.
CR710	19B219800G3	Diode, red light emitting.
		- - - - - - - JACKS AND RECEPTACLES - - - - - - -
J701 and J702	19C320257P2	Pin wafer assembly: 19 contacts.
J704	19B219627G1	Connector: 6 contacts.
J705 thru J713	19A701785P1	Contact, electrical.
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.
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.
		- - - - - - - - - - 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.
		- - - - - - - - - - SWITCHES - - - - - - - - - -
S701	19A116622P5	Push: DPST, 0.5 amp VDC or 3.0 amps at 125 v; sim to Switchcraft 11K1040.
S702	19A116697P1	Rotary: 1 section, 1 pole, 8 positions (supplied with adj stop), non-shorting contacts, 2 amps at 28 VDC or 1 amp at 110 VRMS; sim to Oak Mfg Type "F".
		FREQUENCY INDICATOR LIGHT ASSEMBLY 19B219696G3
		- - - - - - - DIODES AND RECTIFIERS - - - - - - -
CR709	19A134354P4	Diode, optoelectronic: green; sim to Hew. Packard 5082-4992.
		MECHANICAL PARTS (SEE RC2447)
1	19A116807P1	Clip, spring tension.
2	19A116773P106	Tap screw: thd size No. 7-19 x 3/8.
3	19B201074P204	Tap screw, Phillips POZIDRIV®: No. 4-40 x 1/4.
4	N402P8C6	Flatwasher: No. 8.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.



(RC-2440D)

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

NOTES:
1. LETTER CODES ARE DA JUMPERS ON P.W. REMOVED WHEN SPECIFIED ON OPTIONS
2. SLEEVE WIRES ON S701.
3. DA=#22AWG WIRE SIZE. DB=#18AWG W
4. ■ INDICATES SQUARE POSTS.
5. ALL UNMARKED WIRES ARE SF24.

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
19D423588G1	A
19D423590G1	
19D423588G2	A
19D423590G2	

SYMBOL	GE PART NO.	DESCRIPTION
5	19C320389G1	Housing.
6	19B219825G1	Knob.
7	19B219699G1	Frequency indicator.
8	NP270754A	Nameplate. (1-12).
9	NP270754B	Nameplate. (OFF, A-H).
10	4029006P1	Retainer strap: sim to Tinnerman C2386-020-1.
11	N117P9004C13	Tap screw: No. 4-40 x 1/4.
12	7165075P2	Hex nut, brass: No. 3/8-32.
13	7115130P9	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	N710P16012C6	Screw, hexhead, slotted: No. 10-16 x 3/4. (Quantity 3, used without safety release disc and retaining bracket).
19	19D416594P1	Mounting bracket.
20	19E500988P1	Cover.
21	N187P16010C6	Screw, hex head slotted: No. 10-32 x 5/8.
	N402P39C6	Washer: No. 10.
	N403P9C6	Lockwasher, external: steel.
22	NP270753P1	Nameplate. (MASTR II SOLID STATE).
23	19B219626P1	Knob plug. (Frequency switch S702).
24	7140578P6	Nut, push on: sim to Tinnerman C318-012-67. (Used with item 23).
25	19A130009P1	Diffuser.
26	7160815P4	(Not Used).

ASSOCIATED ASSEMBLIES

POWER/CONTROL CABLE
18 CONDUCTOR
19D423424G2

		- - - - - - - - - - - - PLUGS - - - - - - - - - - - -
P702		Connector. Includes:
	19B226516G1	Shell.
	19A116781P5	Contact, electrical: wire size No. 18-24 AWG; sim to Molex 08-50-0106. (Quantity 4).
	19A116781P6	Contact, electrical: wire size No. 22-26 AWG; sim to Molex 08-50-0108. (Quantity 14).
P901		Connector. Includes:
	19C307162P1	Shell.
	19A134240P1	Contact, electrical: sim to AMP 350657-1. (Quantity 14).
	19A134240P2	Contact, electrical: sim to AMP 350656-1. (Quantity 4).
	19A134240P3	Contact, electrical: sim to AMP 350655-1. (Quantity 2).
	19C328122P1	Adaptor. (Snaps to shell).
		- - - - - - - - - MISCELLANEOUS - - - - - - - - -
	7139880P13	Cable: 16 conductor, 20 feet.
	7142878G1	Clip loop (strain relief).
	19A134241P1	Jackscrew. (Part of P901).
	19A115799P1	Terminal, solderless: sim to AMP 33460. (Quantity 2).

SYMBOL	GE PART NO.	DESCRIPTION
		POWER/CONTROL CABLE 30 CONDUCTOR 19D423424G8
		- - - - - - - - - - - - PLUGS - - - - - - - - - - - -
P702		Connector. Includes:
	19B226516G1	Shell.
	19A116781P5	Contact, electrical: wire size No. 18-24 AWG; sim to Molex 08-50-0106.
	19A116781P6	Contact, electrical: wire size No. 22-26 AWG; sim to Molex 08-50-0108.
P703		Connector. Includes:
	19B226516G2	Shell.
	19A116781P6	Contact, electrical: wire size No. 22-26 AWG; sim to Molex 08-50-0108.
		- - - - - - - - - MISCELLANEOUS - - - - - - - - -
	7139880P14	Cable: 27 conductor, 20 feet.
	7142878G1	Clip loop (strain relief).
	19A115799P1	Terminal, solderless; sim to AMP 33460. (Quantity 2).
P901		Connector. Includes:
	19C307162P1	Shell.
	19A134240P1	Contact, electrical: wire size 24-20 AWG; sim to AMP 350657-1. (Quantity 34).
	19A134240P2	Contact, electrical: wire size 20-16 AWG; sim to AMP 350656-1. (Quantity 4).
	19A134240P3	Contact, electrical: wire size 12-8 AWG; sim to AMP 350655-1. (Quantity 2).
	19A134241P1	Jackscrew.

POWER/CONTROL CABLE
NEGATIVE GRD
EXECUTIVE II INTERFACE
19C321890G1 NEGATIVE GND
19C321890G2 POSITIVE GND

		- - - - - - - - - - PLUGS - - - - - - - - - -
P1		Connector. Includes:
	19C311409P1	Shell.
	19D226473G1	Connector cover.
P702		Connector. Includes:
	19B226516G1	Shell.
	19A116781P5	Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.
	19A116781P6	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108.
P703		Connector. Includes:
	19B226516G2	Shell.
	19A116781P5	Contact, electrical: wire range No. 18-24 AWG; sim to Molex 08-50-0106.
	19A116781P6	Contact, electrical: wire range No. 22-26 AWG; sim to Molex 08-50-0108.
	7142878G1	Clip loop. (strain relief).
	19A115799P7	Solderless terminal: wire size No. 12-10 AWG; sim to AMP 35772.
	19B209260P27	Terminal, solderless: wire range No. 12-10; sim to AMP 31828- LOOSE PC.

12-VOLT 2-WIRE
IGNITION SWITCH CABLE
19B219537G4

		- - - - - - - - - - PLUGS - - - - - - - - - -
P701		Connector. Includes:
	19B226516G3	Shell.
	19A129504G1	Y Cable. (BLACK).

SYMBOL	GE PART NO.	DESCRIPTION
		FUSED LEAD ASSEMBLY 19A129480G3 (Used with 19B219537G4)
	1R16P8	Fuse, quick blowing: 5 amps at 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.
	19A115776P6	Fuseholder: sim to Bussmann Type 9835.
	19A115776P5	Knob assembly; sim to Bussmann 9953 1/2. (Mates with fuseholder).
	19A115776P7	Spring: sim to Bussmann 1A1853.
	19A115776P3	Contact, electrical: sim to Littelfuse 904-88. (Located inside fuseholder).
	7491823P7	Ring terminal, solderless; wire size No. 16-14 AWG.
	7491823P8	Ring terminal, solderless; wire size No. 16-14 AWG.
	4029484P2	Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1	Insulated splice.
	19A116781P5	Contact, electrical: wire size No. 18-24 AWG; sim to Molex 08-50-0106.

OPTIONAL 12-VOLT 3-WIRE
IGNITION SWITCH CABLE
19B219537G1

		- - - - - - - - - - PLUGS - - - - - - - - - -
P701		Connector. Includes:
	19B226516G3	Shell.
	19A129504G1	Y Cable. (BLACK).

FUSED LEAD ASSEMBLY
19A129480G1 1 AMP (RED)
(Used with 19B219537G1)

	1R16P3	Fuse, quick blowing: 1 amp 250 v; sim to Littelfuse 312001 or Bussmann AGC-1.
	19A115776P6	Fuseholder: sim to Bussmann Type 9835.
	19A115776P5	Knob assembly; sim to Bussmann 9953 1/2. (Mates with fuseholder).
	19A115776P7	Spring: sim to Bussmann 1A1853.
	19A115776P3	Contact, electrical: sim to Littelfuse 904-88. (Located inside fuseholder).
	7491823P7	Ring terminal, solderless; wire size No. 16-14 AWG.
	7491823P8	Ring terminal, solderless; wire size No. 16-14 AWG.
	4029484P2	Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1	Insulated splice.
	19A116781P5	Contact, electrical: wire size No. 18-24 AWG; sim to Molex 08-50-0106.

FUSED LEAD ASSEMBLY
19A129480G2 5 AMP (YELLOW)
(Used with 19B219537G1)

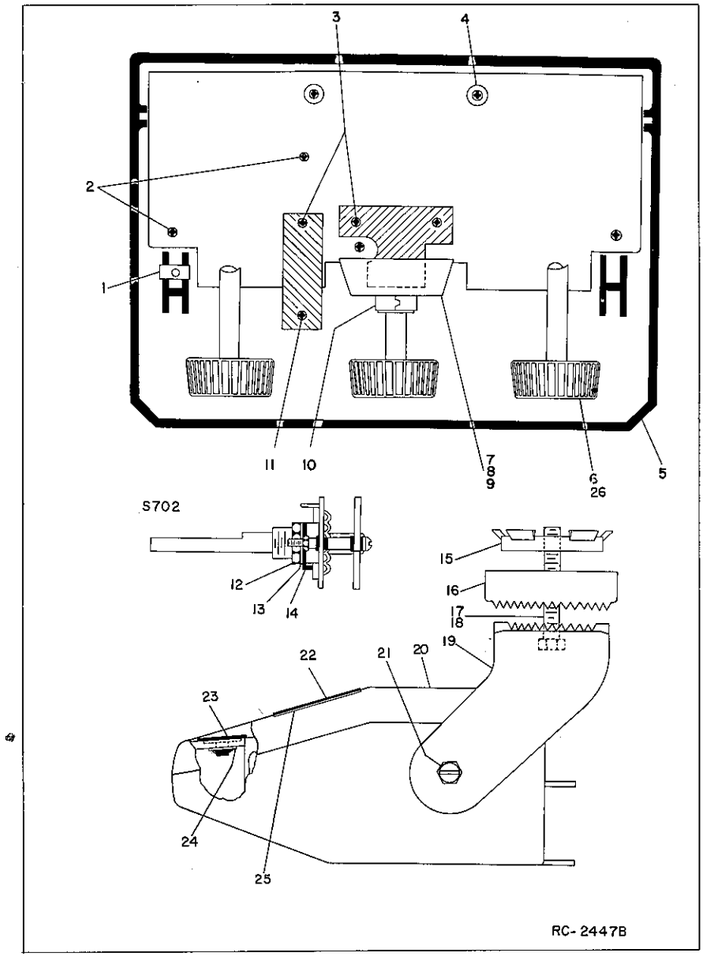
	1R16P8	Fuse, quick blowing: 5 amp 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.
	19A115776P6	Fuseholder: sim to Bussmann Type 9835.
	19A115776P5	Knob assembly; sim to Bussmann 9953 1/2. (Mates with fuseholder).
	19A115776P7	Spring: sim to Bussmann 1A1853.
	19A115776P3	Contact, electrical: sim to Littelfuse 904-88. (Located inside fuseholder).
	7491823P7	Ring terminal, solderless; wire size No. 16-14 AWG.
	7491823P8	Ring terminal, solderless; wire size No. 16-14 AWG.
	4029484P2	Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1	Insulated splice.
	19A116781P5	Contact, electrical: wire size No. 18-24 AWG; sim to Molex 08-50-0106.

SYMBOL	GE PART NO.	DESCRIPTI
		FUSED LEAD AS 19A129480G2 5 AM (Used with 19B2
	1R16P8	Fuse, quick blowing: 5 amp Littelfuse 312005 or Bussma
	19A115776P6	Fuseholder: sim to Bussmann
	19A115776P5	Knob assembly; sim to Bussm with fuseholder).
	19A115776P7	Spring: sim to Bussmann 1A
	19A115776P3	Contact, electrical: sim t (Located inside fuseholder)
	7491823P7	Ring terminal, solderless;
	7491823P8	Ring terminal, solderless;
	4029484P2	Terminal, quick connect: w fits 1/4 x .032 tab; sim to
	19A116849P1	Insulated splice.
	19A116781P5	Contact, electrical: wire sim to Molex 08-50-0106.
		25 - 50 MHz A
	7491074P1	Antenna: includes stainles 96-1/2 inches long; ball ti 10-32 hex socket set screw; Specialists ASPA3BGE. (30-
	7491074P2	Antenna: includes stainles 102 inches long; ball tip; set screw; sim to Antenna S (25-30 MHz.
	7102930P3	Adapter, antenna: approx 2 (Used with GE Dwg 7491074P1
	4KY9A1	Loading coil: 25-33 MHz; s Specialists ASPA87.
	19A121577G1	Antenna hook kit.
	7134724P1	Antenna hook.
	19C307172P1	Antenna Package: Includes adapter spring assembly, ca plate, and rubber gasket.
		Base and ball assembly. Ne
		Adapter spring assembly. N
		Cable assembly. Newtronics
		Horseshoe plate. Newtronic
		Rubber gasket. Newtronics
		132-512 MHz A 19B209568
		Whip assembly. 068110-001,
		Whip nut assembly. 068047-
		Base nut assembly. 068048-
		"O" Ring (LARGE). 007059-2
		Stud assembly. 068046-001,
		RG58/U Cable, 15 ft. 0681
		800-870 MHz A 19B209561
		Whip assembly. 068110-001
		Whip nut assembly. 068047
		Base nut assembly. 068048
		"O" Ring (LARGE). 007059-
		Stud assembly. 068046-001
	19B209018P5	Plug, Type N. sim to UG53
		Cable, (Included as part assembly only).

DESCRIPTION
FUSED LEAD ASSEMBLY 19A129480G3 (Used with 19B219537G4)
quick blowing: 5 amps at 250 v; sim to lfuse 312005 or Bussmann MTH-5.
older: sim to Bussmann Type 9835.
assembly; sim to Bussmann 9953 1/2. (Mates fuseholder).
g: sim to Bussmann 1A1853.
ct, electrical: sim to Littelfuse 904-88. ted inside fuseholder).
terminal, solderless; wire size No. 16-14 AWG.
terminal, solderless; wire size No. 16-14 AWG.
nal, quick connect: wire size 14-18 AWG, 1/4 x .032 tab; sim to AMP 41274.
ated splice.
ct, electrical: wire size No. 18-24 AWG; o Molex 08-50-0106.
OPTIONAL 12-VOLT 3-WIRE IGNITION SWITCH CABLE 19B219537G1
- - - - - - - - PLUGS - - - - - - - - - -
ector. Includes:
1.
ple. (BLACK).
FUSED LEAD ASSEMBLY 19A129480G1 1 AMP (RED) (Used with 19B219537G1)
, quick blowing: 1 amp 250 v; sim to Littel- 312001 or Bussmann AGC-1.
older: sim to Bussmann Type 9835.
assembly; sim to Bussmann 9953 1/2. (Mates fuseholder).
ng: sim to Bussmann 1A1853.
act, electrical: sim to Littelfuse 904-88. ated inside fuseholder).
terminal, solderless; wire size No. 16-14 AWG.
terminal, solderless; wire size No. 16-14 AWG.
inal, quick connect: wire size 14-18 AWG, 1/4 x .032 tab; sim to AMP 41274.
lated splice.
act, electrical: wire size No. 18-24 AWG; to Molex 08-50-0106.
FUSED LEAD ASSEMBLY 19A129480G2 5 AMP (YELLOW) (Used with 19B219537G1)
, quick blowing: 5 amp 250 v; sim to elfuse 312005 or Bussmann MTH-5.
holder: sim to Bussmann Type 9835.
assembly; sim to Bussmann 9953 1/2. (Mates fuseholder).
ng: sim to Bussmann 1A1853.
act, electrical: sim to Littelfuse 904-88. ated inside fuseholder).
terminal, solderless; wire size No. 16-14 AWG.
terminal, solderless; wire size No. 16-14 AWG.
inal, quick connect: wire size 14-18 AWG, 1/4 x .032 tab; sim to AMP 41274.
lated splice.
act, electrical: wire size No. 18-24 AWG; to Molex 08-50-0106.

SYMBOL	GE PART NO.	DESCRIPTION
		FUSED LEAD ASSEMBLY 19A129480G2 5 AMP (YELLOW) (Used with 19B219537G1)
	1R16P8	Fuse, quick blowing: 5 amp 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.
	19A115776P6	Fuseholder: sim to Bussmann Type 9835.
	19A115776P5	Knob assembly; sim to Bussmann 9953 1/2. (Mates with fuseholder).
	19A115776P7	Spring: sim to Bussmann 1a1853.
	19A115776P3	Contact, electrical: sim to Littelfuse 904-88. (Located inside fuseholder).
	7491823P7	Ring terminal, solderless; wire size No. 16-14 AWG.
	7491823P8	Ring terminal, solderless; wire size No. 16-14 AWG.
	4029484P2	Terminal, quick connect: wire size 14-18 AWG, fits 1/4 x .032 tab; sim to AMP 41274.
	19A116849P1	Insulated splice.
	19A116781P5	Contact, electrical: wire size No. 18-24 AWG; sim to Molex 08-50-0106.
		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 ASPA38GE. (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.
		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.
	19B209018P5	Plug, Type N. sim to UG536B/U.
		Cable. (Included as part of complete antenna assembly only).

SYMBOL	GE PART NO.	DESCRIPTION
		66-88 MHz ANTENNA 19C320111P3
	19C320111G1	Antenna base: 15 ft. cable with M2R22P1 connector with 7105381P1 adaptor; sim to Decibel Products DB719.
	19C320111G2	Antenna whip and Spring base: sim to Decibel Products DB670A.
		12 VOLT FUSE ASSEMBLY 19B216021G4 (Fuses must be ordered separately)
		- - - - - - - - - - FUSES - - - - - - - - - -
F1	1R11P4	Quick blowing: 15 amps, 250 v; sim to Bussmann NON15. (Used with 16-38 w MASTR II Mobiles).
F3	1R11P7	Quick blowing: 30 amps, 250 v; sim to Bussmann NON30. (Used with 66-128 w MASTR II and EXECUTIVE II Mobiles).
F4	1R11P5	Quick blowing: 20 amps, 250 v; sim to Bussmann NON20. (Used with 38-66 w MASTR II and 35-66 w EXECUTIVE II Mobiles).



RC-2447B

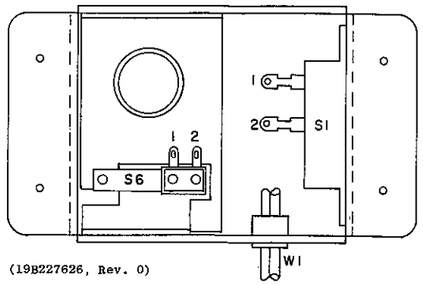
PRODUCTION CHANGES

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.

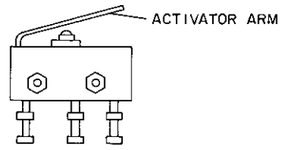
Component Board 19D423588G1, 2

REV. A - Replace DA jumper between H90-H91 with printed wire run.

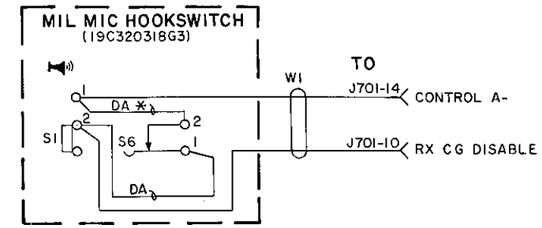
OUTLINE DIAGRAM



(19B227626, Rev. 0)



SCHEMATIC DIAGRAM



* REMOVE DA JUMPER TO DISABLE AUTOMATIC CHANNEL GUARD MONITOR

S6 - SHOWN OFF HOOK

S1 - SHOWN OFF MONITOR

MODEL NO.	REV LETTER

(19A136836, Rev. 1)

'RODUCTION CHANGES.

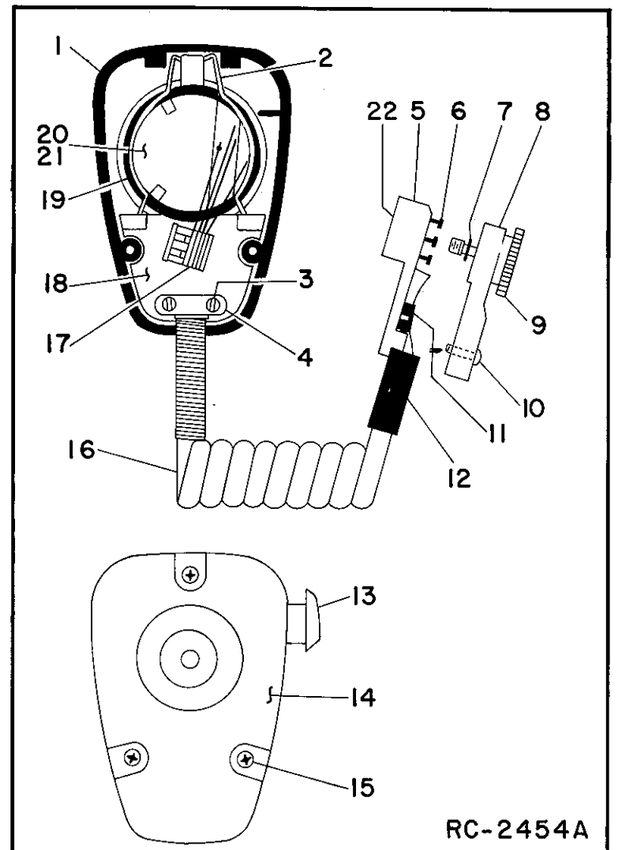
PARTS LIST

LBI4481C

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 base.
6	19A129435P1	Contact.
7	7109043P1	Retaining ring.
8	19D416767P1	Connector cover.
9	19B219723G1	Thumb screw; Lexan.
10	N136AP905Y6	Tap screw, phillips; No. 4 x 5/16.
11	19A116837P1	Cable clip.
12	19B219749P1	Strain relief.
13	RP126	Switch button kit.
14		Rear Case Assembly. (Part of item 1).
15		Tap screw, phillips. (Part of i 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.



SERVICE SHEET

MICROPHONE & HOOKSWITCH

PARTS LIST

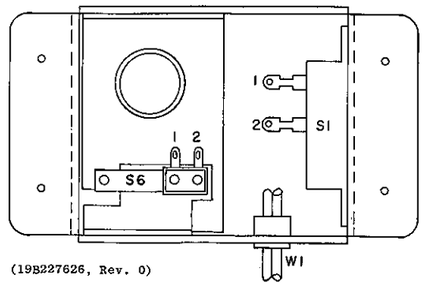
LBI30449C

MICROPHONE HOOKSWITCH
19C320318G3

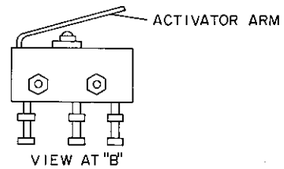
SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - SWITCHES - - - - - - - - - -
S1	19B209261P18	Slide: 1 pole, 2 positions, 0.5 amp VDC or 3 amp VAC at 125 v; sim to Switchcraft 46202LH.
S6	19A134398P1	Push: sim to Chicago Switch S-1527-1.
		- - - - - - - - - - CABLES - - - - - - - - - -
W1	19A129414G1	Cable: 2 conductor; approx 5 feet long, includes (2) 19A116781P5 contacts.
		- - - - - - - - - MISCELLANEOUS - - - - - - - - -
	19B219698G4	Housing.
	19B219694P1	Base plate.
	19A116768P6	Bushing, strain relief: sim to Heyco SR-3P-4.
	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).
	19B200525P227	Rivet. (Secures S1 spring).
	19B200525P177	Rivet. (Secures S1).

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

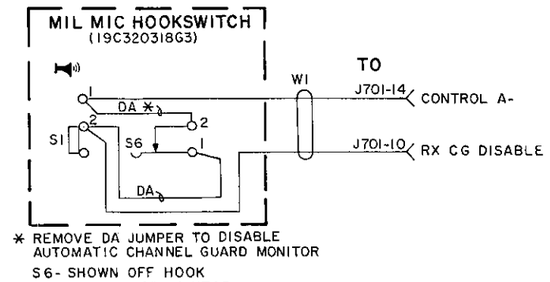
OUTLINE DIAGRAM



(19B227626, Rev. 0)



SCHEMATIC DIAGRAM



MODEL NO.	REV LETTER

(19A136836, Rev. 1)

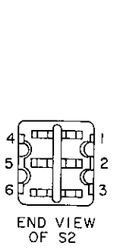
PARTS LIST

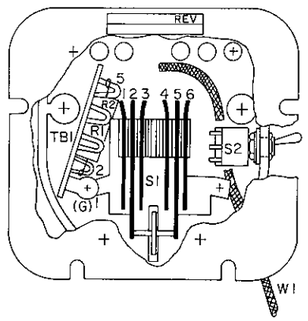
LBI4481C

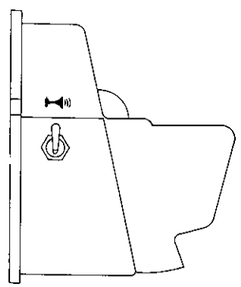
TRANSISTORIZED DYNAMIC MICROPHONE
19C320270G1, G2
(SEE RC2454)

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 base.
6	19A129435P1	Contact.
7	7109043P1	Retaining ring.
8	19D416767P1	Connector cover.
9	19B219723G1	Thumb screw: Lexan.
10	N136AP905Y6	Tap screw, phillips; No. 4 x 5/16.
11	19A116937P1	Cable clip.
12	19B219749P1	Strain relief.
13	RP126	Switch button kit.
14		Rear Case Assembly. (Part of item 1).
15		Tap screw, phillips. (Part of i 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.

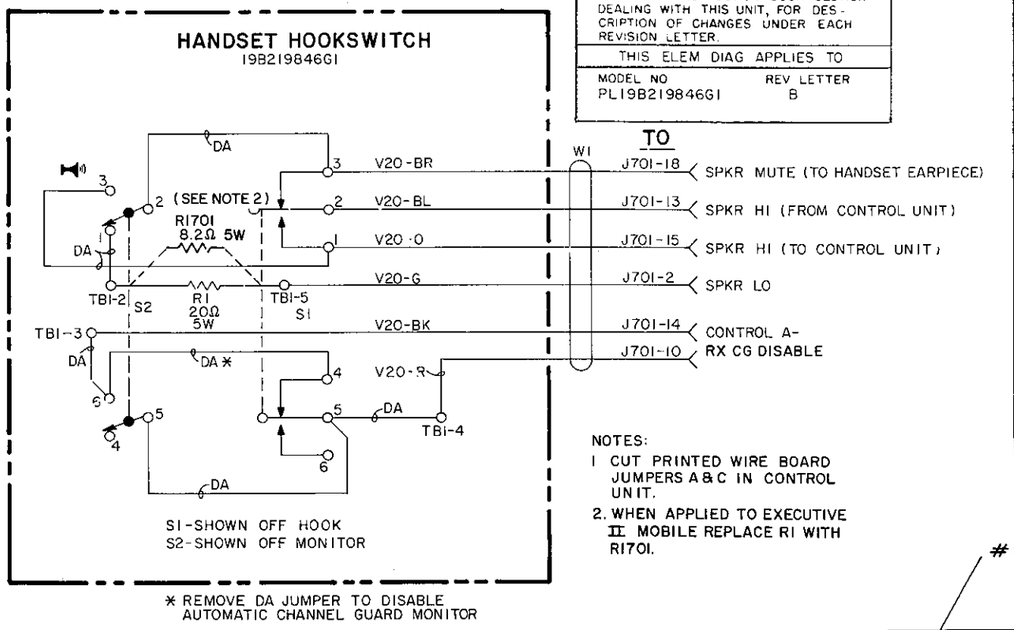






(19B226131, Rev. 2)

SCHEMATIC DIAGRAM



* REMOVE DA JUMPER TO DISABLE AUTOMATIC CHANNEL GUARD MONITOR

(19B219842, Rev. 8)

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	B

NOTES:

1. CUT PRINTED WIRE BOARD JUMPERS A & C IN CONTROL UNIT.
2. WHEN APPLIED TO EXECUTIVE II MOBILE REPLACE R1 WITH R1701.

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.

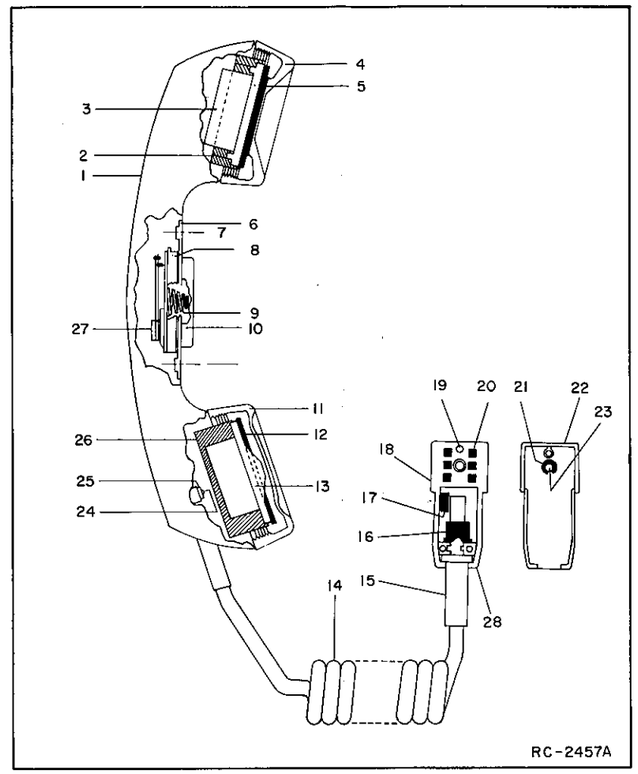
PARTS LIST

LBI4484H

HANDSET HOOKSWITCH
19B219846G1

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R1*	5493035P55	Wirewound: 20 ohms ±5%, 5 w; sim to Hamilton Hall Type HR.
		In REV A:
	5493035P11	Wirewound: 40 ohms ±5%, 5 w; sim to Hamilton Hall Type HR.
		Earlier than REV A:
	5493035P12	Wirewound: 60 ohms ±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 DISABLE).
		- - - - - - - - - - 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).
	19A129586G1	Bumper, rubber. (2).
	19B219852P1	Base plate.
		EXECUTIVE II MODIFICATION KIT 19A136767G1
R1701	5493035P52	Resistor, wirewound: 8.2 ohms ±10%, 5 w; sim to Hamilton Hall Type HR.
	19A136775P1	Label.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



SYMBOL	GE PART NO.
1	RP142
2	
3	RP140
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	RP139
14	19C321016G2
15	19B219749P1
16	19A116937P1
17	3R77P472K
18	19D416766P1
19	N136AP905Y6
20	19A129435P1
21	7109043P1
22	19D416767P1
23	19B219723G1
24	
25	
26	
27	RP143
28	19C321016G3

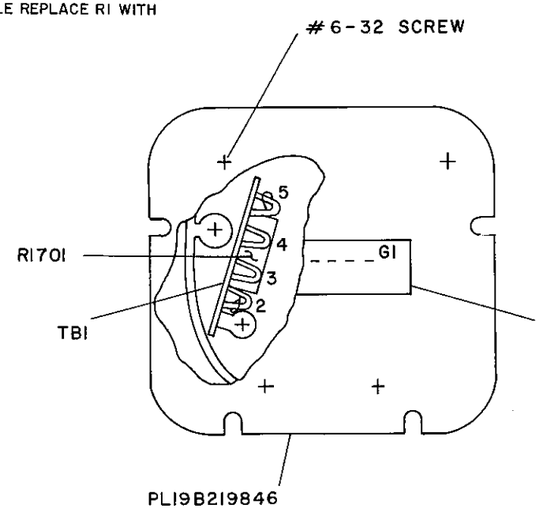
*COMPONENTS ADDED, D

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 - Handset Hookswitch 19B219846G1
Incorporated in initial shipment.

REV. B - Eliminate audio oscillation in handset (with speaker out of circuit). Changed R1.

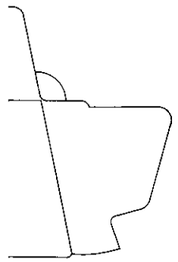


THESE INSTRUCTIONS COVER THE MODIFICATION OF MASTR II HANDSET HOOKSWITCH TO BE APPLIED TO EXEC II

INSTRUCTIONS:

1. REMOVE FOUR #6-32 SCREWS AND COVER.
2. REMOVE R1 RESISTOR (40 OHM) AND DISCARD. REPLACE WITH R1701 RESISTOR (8.2 OHM) AND SOLDER TO TB1-5 AND TB1-2 AS SHOWN.
3. REPLACE COVER AND SCREWS.
4. ADD LABEL (19A136775) AS SHOWN.

(19B227530, Rev. 2)



BLE PRODUCTION CHANGE
NSTRUCTION BOOK SECTION
H THIS UNIT, FOR DES-
CHANGES UNDER EACH
TTER.

EM DIAG APPLIES TO

	REV LETTER
46G1	B

< SPKR MUTE (TO HANDSET EARPIECE)

< SPKR HI (FROM CONTROL UNIT)

< SPKR HI (TO CONTROL UNIT)

< SPKR LO

< CONTROL A-
< RX CG DISABLE

ITED WIRE BOARD
A&C IN CONTROL

PLIED TO EXECUTIVE
E REPLACE R1 WITH

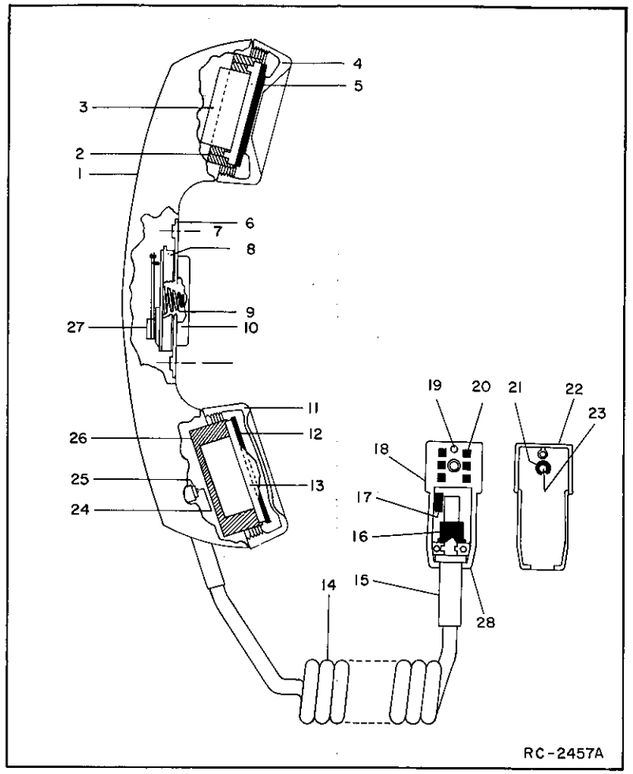
PARTS LIST

LB14484H

HANDSET HOOKSWITCH
19B219846G1

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - RESISTORS - - - - - - - - - -
R1*	5493035P55	Wirewound: 20 ohms ±5%, 5 w; sim to Hamilton Hall Type HR.
		In REV A:
	5493035P11	Wirewound: 40 ohms ±5%, 5 w; sim to Hamilton Hall Type HR.
		Earlier than REV A:
	5493035P12	Wirewound: 60 ohms ±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 DISABLE).
		- - - - - - - - - - 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).
	19A129586G1	Bumper, rubber. (2).
	19B219852P1	Base plate.
		EXECUTIVE II MODIFICATION KIT 19A136767G1
R1701	5493035P52	Resistor, wirewound: 8.2 ohms ±10%, 5 w; sim to Hamilton Hall Type HR.
	19A136775P1	Label.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

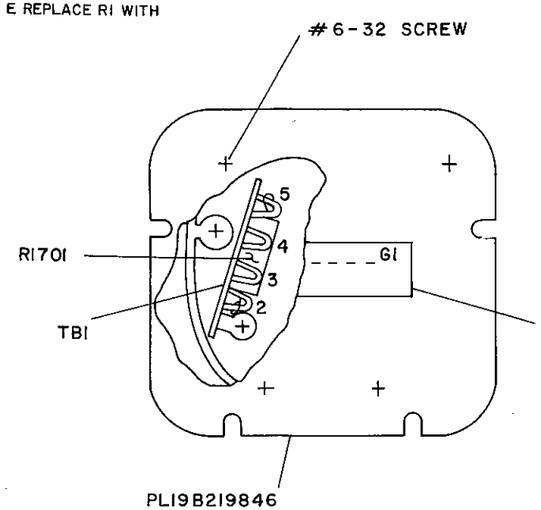


PRODUCTION CHANGES

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 - Handset Hookswitch 19B219846G1
Incorporated in initial shipment.

REV. B - Eliminate audio oscillation in handset (with speaker out of circuit). Changed R1.



THESE INSTRUCTIONS COVER THE MODIFICATION OF MASTR II HANDSET HOOKSWITCH TO BE APPLIED TO EXEC II

INSTRUCTIONS:

1. REMOVE FOUR #6-32 SCREWS AND COVER.
2. REMOVE R1 RESISTOR (40 OHM) AND DISCARD. REPLACE WITH R1701 RESISTOR (8.2 OHM) AND SOLDER TO TB1-5 AND TB1-2 AS SHOWN.
3. REPLACE COVER AND SCREWS.
4. ADD LABEL (19A136775) AS SHOWN.

(19B227530, Rev. 2)

PARTS LIST

LB14482C

TRANSISTORIZED DYNAMIC HANDSET
19C320478G1

SYMBOL	GE PART NO.	DESCRIPTION
1	RP142	Case Assembly. Includes items 1, 2, 4, 5, 11, 12, 26.
2		Adapter. Part of item 1.
3	RP140	Receiver Cartridge.
4		Receiver Cap. Part of item 1.
5		Washer. Part of item 1.
6		Escutcheon. Part of item 27.
7		Flat head screw, socket cap: No. 4-40 x 1/4. Part of item 27.
8		Actuator. Part of item 27.
9		Spring. Part of item 27.
10		Plunger bar. Part of item 27.
11		Transmitter cap. Part of item 1.
12		Washer. Part of item 1.
13	RP139	Transmitter cartridge.
14	19C321016G2	Cable assembly: Includes items 14-25 and cable RP141.
15	19B219749P1	Flex relief.
16	19A116937P1	Cable clamp: sim to Malco 21012-3.
17	3R77P472K	Resistor, (R1) Composition, 4700 ohms ±10%, 1/2 w.
18	19D416766P1	Connector case.
19	N136AP905Y6	Tap screw: No. 4-24 x 5/16.
20	19A129435P1	Pin contact.
21	7109043P1	Retaining ring. 3/16 inch, sim to National Lockwasher WA 510.
22	19D416767P1	Connector Cover.
23	19B219723G1	Thumb screw: lexan. (Secures cover, item 22 to case, item 18).
24		Screw. Part of item 14.
25		Cable clamp. Part of item 14.
26		Shield. Part of item 1.
27	RP143	Switch Assembly. Includes items 6-10.
28	19C321016G3	Connector assembly: Includes items 15, 16, 18-23. Does not include resistor, item 17.

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES.

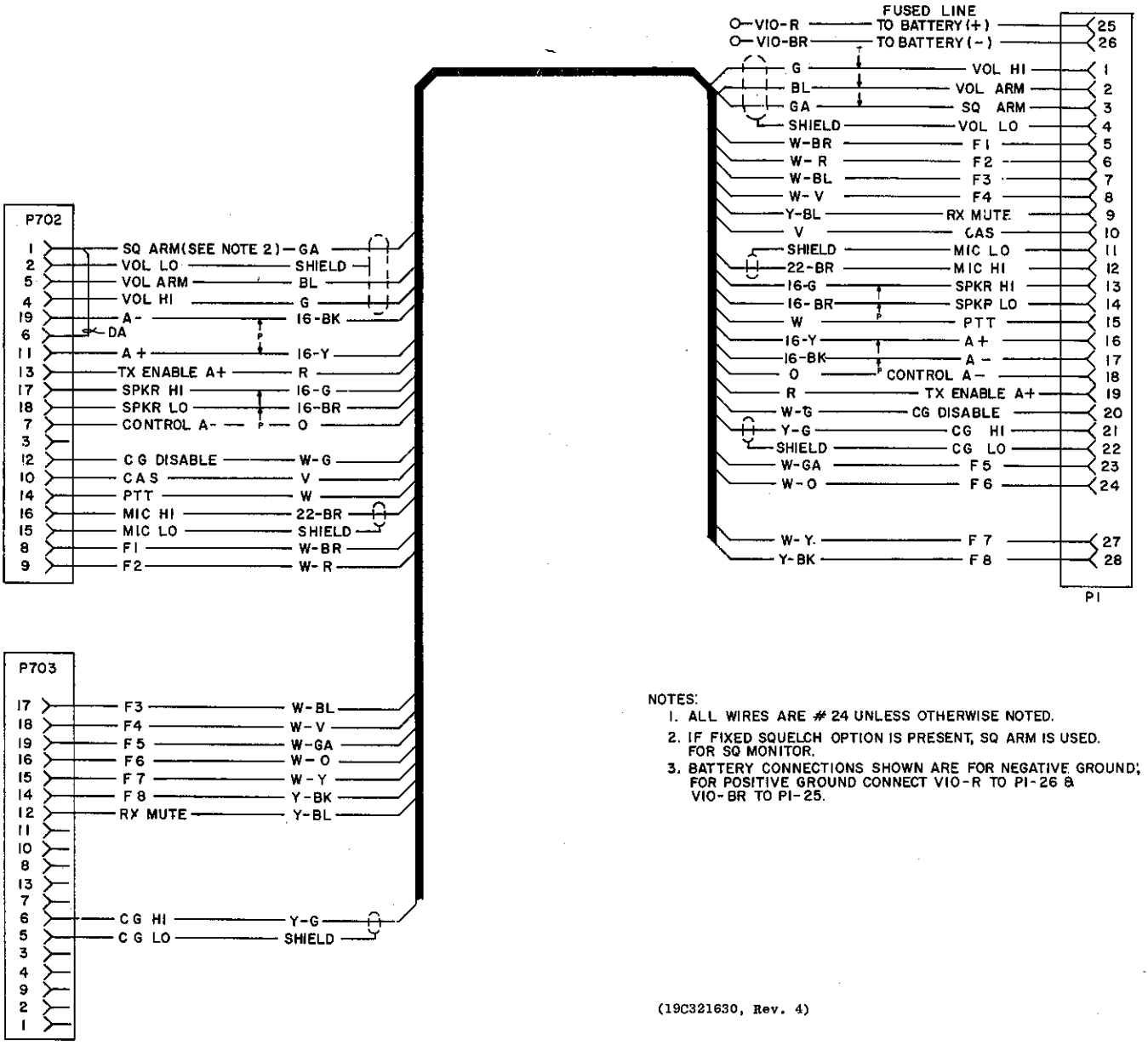
PARTS LIST

LBI4488C

SPEAKER
19C320302G1

SYMBOL	GE PART NO.	DESCRIPTION
		- - - - - - - - - - LOUDSPEAKERS - - - - - - - - - -
LS1	19A116694P1	Permanent magnet, 5 inch: 20 watts, 8 ohms ±10% imp, 100 to 10,000 Hz response; sim to Oaktron 5EU2189-2.
		- - - - - - - - - - - CABLES - - - - - - - - - -
W1	19A129414G1	2 conductor cable: approx 5 feet long, includes (2) 19A116781P5 contacts.
		- - - - - - - - - - MISCELLANEOUS - - - - - - - - - -
	19B219692G1	Grille.
	19B227593G1	Housing.
	19C320016P1	Mounting bracket. (Located between housing & retaining bracket).
	19C320022P1	Retaining bracket. (Located between mounting bracket & safety release disc).
	19B219578G1	Safety Release Disc.
	19A116986P108	Tap screw, with lockwasher: No. 7-19 x 1/2. (Secures speaker to housing).
	19A116986P112	Tap screw, with lockwasher: 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. (When mounting to extra thick mounting surface).

*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES



NOTES:
1. ALL WIRES ARE # 24 UNLESS OTHERWISE NOTED.
2. IF FIXED SQUELCH OPTION IS PRESENT, SQ ARM IS USED. FOR SQ MONITOR.
3. BATTERY CONNECTIONS SHOWN ARE FOR NEGATIVE GROUND; FOR POSITIVE GROUND CONNECT VIO-R TO P1-26 & VIO-BR TO P1-25.

(19C321630, Rev. 4)

SCHEMATIC DIAGRAM

POWER/CONTROL CABLE
MASTR II/EXEC II INTERFACE
19C321890G1