MASTR Imperial

MOBILE CONTROL UNIT MODELS 4EC59A111-114



SPECIFICATIONS

MODEL NUMBERS

4EC59All1 through 4EC59All4

USED WITH

MASTR Imperial Mobile Combinations

CONTROLS

VOLUME Control

OFF-ON-STBY Switch

SQUELCH Control

Two-Frequency Selector Switch

Optional Controls

CHANNEL GUARD Monitor Switch

Dimmer Control for Frequency Selector Lights

INDICATORS

Transmit light: red

F1 Frequency Selector light: green F2 Frequency Selector light: vellow

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

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	Control Unit Models 4EC59All1-114 Power Cables, 19C303601-G1 & G2 Trunk-Mount Control Cables, 19C303626-G1—G4 Vehicle System Cables 19Al21454-G1 & -G2 Interconnection Harness 19Al22458-G1 Microphone, Model 4EM25Al0 Handset, Model 4EM26Al0 & Cl0 Dimmer Control Option 19Al21293-G1 Fuse Assembly, 19B216021-G4 & Fuse 1R11-P4 Five-Watt Speaker 4EZ16Al5	
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---WARNING----

No one should be permitted to handle any portion of the equipment that is supplied with voltage of RF power; or to connect any external apparatus to the units while the units are supplied with power. KEEP AWAY FROM LIVE CIRCUITS.

DESCRIPTION

MASTR Imperial Control Units are compact, highly functional control units that are designed for either Trunk-Mount or Front-Mount MASTR mobile combinations.

In Trunk-Mount installations, a plate is installed on the back of the Control Unit to hold the connectors. A mounting bracket is provided for mounting the Control Unit within convenient reach of the operator. In Front-Mount installations, the Control Unit is attached to the front of the MASTR Two-Way Radio.

Cable connections are secured to the Control Unit by means of captive locking screws.

CIRCUIT ANALYSIS

The OFF-ON-STBY (standby) switch determines whether or not the transmitter and receiver are operative. With the switch in the OFF position, all power is removed from the Two-Way Radio. Turning the switch to STBY applies power to the receiver only, and the frequency selector lights do not light.

Turning the switch to the ON position enables the push-to-talk (PTT) circuit, lights a frequency indicator light, and applies +12 Volts to the receiver and power regulator. The position of the Frequency Indicator switch determines which light will glow when the OFF-ON-STBY switch is turned to ON. The frequency selector lights are F1-GREEN and F2-YELLOW.

Pushing the PTT button on the microphone lights the red pilot light, energizes the antenna changeover relay, and applies a keyed voltage to the transmitter and power regulator. The keyed voltage also mutes the receiver audio stages.

CONTROLS

All models of the Control Unit have VOLUME and SQUELCH controls, and an OFF-ON-STBY switch. Depending on the model number, some of the Control Units may have one or more of the controls described in the following paragraphs. A chart showing which controls are present on each Control Unit model is provided on the Control Unit Schematic Diagram.

Instructions for adjusting the controls are in the Operator's Manual for the Two-Way Radio.

Two-Frequency Switch (S704)

For two-frequency operation, a frequency selector switch selects the channel desired (F1 or F2) for both transmitting and re-

ceiving. The switch connects +10 Volts to the selected receiver oscillator switching diode and connects the transmitter oscillator switching diode to ground, so that the unit will operate on the frequency determined by each of the crystal-controlled oscillators.

CHANNEL GUARD-OFF Switch (S703)

Placing this switch in the OFF position disables the receiver Channel Guard so that the receiver operates on noise squelch only.

Dimmer Control (R705 - Optional)

The dimmer control is a rheostat in series with the frequency indicator lights. Turning the control dims or brightens the light as desired by the operator. The dimmer control has no effect on the RED Transmit light.

VEHICLE IGNITION SWITCH CONNECTIONS

The Control Unit may be connected for three different modes of operation, depending on the way the three ignition switch cables are connected in the vehicle system. The <u>black</u> ignition switch cable provides the receiver ground connection. The <u>yellow</u> fused lead provides the receiver hot connections, and the <u>red</u> fused lead provides the +12 Volts for the power regulator. The three types of operation are:

1. Ignition Switch Standby

For this type of operation, the red fused lead (power regulator voltage) is connected to the ACCESSORY or ON terminal of the ignition switch. The yellow fused lead (receiver hot) is connected to the hot side of the ignition switch, and the black lead connects to vehicle ground.

With the ignition switch OFF, the receiver automatically reverts to STBY, ready to receive messages. Turning the ignition switch to the ON or ACCESSORY position turns on the green pilot light and supplies power regulator voltage. Turning the OFF-ON-STBY switch to OFF removes all power to the Two-Way Radio.

2. <u>Ignition Switch Control</u>

For ignition switch control, the yellow and red fused leads are connected 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 radio.

3. Ignition Switch Bypass

For ignition switch bypass, the yellow and red fused leads connect to the "hot" side of the ignition switch or the vehicle fuse block assembly. Both the transmitter

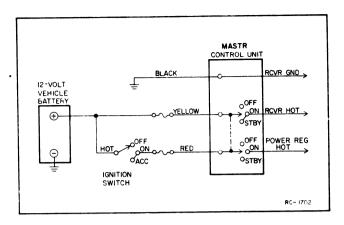


Figure 1 — 12-VDC Connections for Ignition Switch Standby

and receiver operate independently of the ignition switch and can be turned on the off only by the OFF-ON-STBY switch on the MASTR Control Unit.

MAINTENANCE

DISASSEMBLY

In Trunk-Mount installations, access to the inside of the Control Unit is obtained by removing the two Phillips head screws in the back panel away from the housing.

In Front-Mount installations, remove the two Phillips-head screws holding the front casting to the frame and move the casting away from the frame. Next, remove the two screws securing the control cable plug to the inside of the front casting. Then remove the two flat-head screws holding the Control Unit to the front casting.

PILOT LIGHT REPLACEMENT

The pilot lights can be easily replaced without disassembling the Control Unit. First, unscrew the colored lens. Then wrap a small piece of masking tape around the bulb, to give the fingers a firm grip, and unscrew the bulb.

REINSTALLATION

The MASTR Imperial mobile combination operates in 12-Volt, negative ground vehicle systems only: If the radio is ever moved to a different vehicle, always check the battery polarity and voltage of the new system before using the radio.

-CAUTION-

Do not install the MASTR Imperial in a vehicle system using a circuit breaker. The radio must be operated in a system protected by a 15-amp quick blow fuse (similar to GE Fuse Assembly 19B216021-G4 and fuse 1R11-P4).

If it becomes necessary to move the Two-Way Radio and Control Unit to another vehicle, the 25-pin control cable plug may need to be disassembled. Refer to Figure 2 for disassembly of the plug.

-NOTE-

The plug is assembled so that the cable comes out of the top of the plug when connected to the Control Unit. To have the cable come out of the bottom of the plug, remove the remaining two screws and rotate the metal frame 180 degrees.

MAINTENANCE LBI-4395

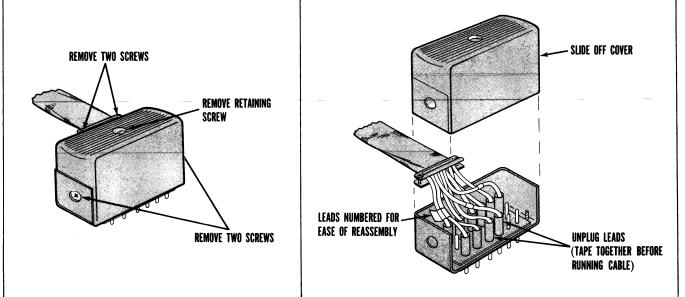
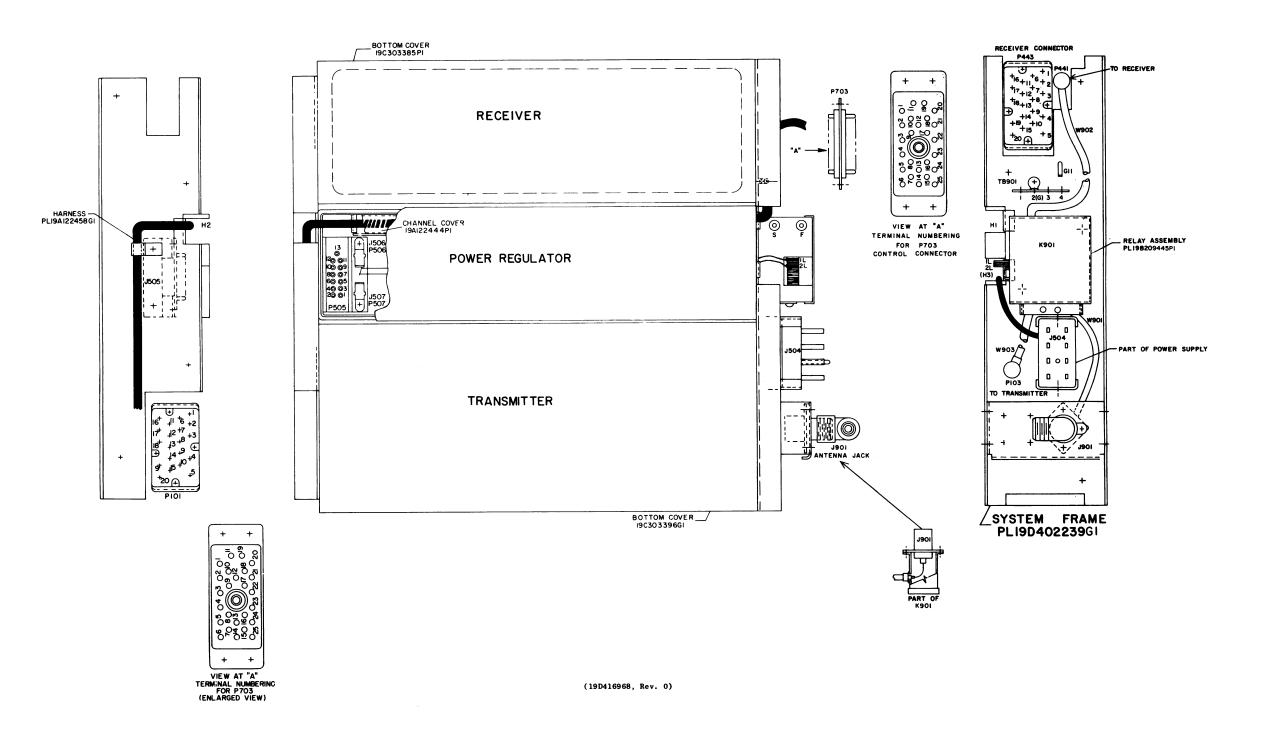


Figure 2 - Disassembly of Control Cable Plug

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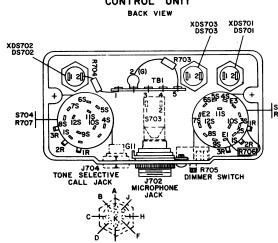


GREEN YELLOW RED OFF ON STBY CG OFF ON STBY OFF OFF VOLUME GENERAL ELECTRIC SQUELCH



MODIFICATION KIT
19A121469
FOR
TRUNK MOUNT UNITS
INCLUDES:
MOUNTING PLATE
MOUNTING BRACKET

CONTROL UNIT



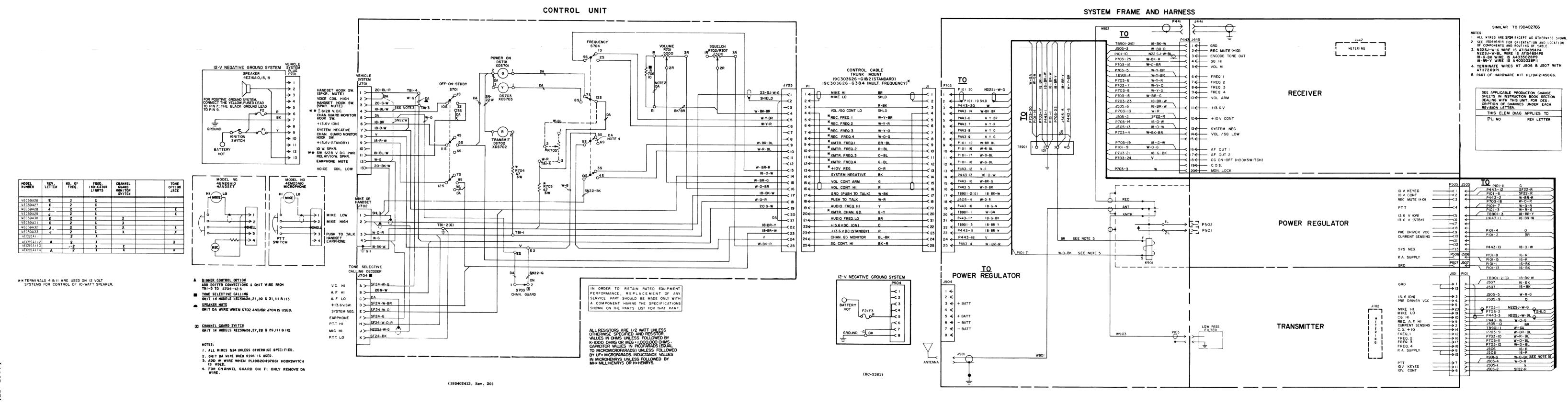
(19C303816, Rev. 3)

OUTLINE DIAGRAM

MASTR IMPERIAL CONTROL UNIT MODELS 4EC59A111-114

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Issue 1



(19D416412, Rev. 2)

SCHEMATIC & INTERCONNECTION DIAGRAM

MASTR IMPERIAL CONTROL UNIT MODELS 4EC59A111-114

Issue 2

PARTS LIST LBI-4394 CONTROL UNIT - 19D413054G17 MODELS 4EC59A111-114

		MODELS 4EC59All1-114 AND	7	NP176153	Nameplate. (Used in Models 4EC59All3 and All
		ASSOCIATED ASSEMBLIES	8		(Not Used).
			9		(Not Used).
			10	19B201122P4	Lens cap: red translucent nylon.
CVMDOL	GE PART NO.	DESCRIPTION	11	19B204443G3	Knob: brown.
SYMBOL	GE PART NU.	DESCRIPTION	12	19C3O3413P1	Knob: VOLUME/SQUELCH.
			13	19B216271G3	Housing: brown.
		CONTROL UNIT 19D413054G17	14	19B204522P1	Mounting plate.
		indicating devices	15	19A115495P1	Screw, hexhead: No. 1/4-20 x 5/8.
DS701	19B201122P1	Light, indicator: miniature, 6 v; sim to GE	1		
thru DS703		Type 1768.		1	ASSOCIATED ASSEMBLIES
		JACKS AND RECEPTACLES			ASSOCIATED ASSEMBLIES
J701	19C3O3576P1	Socket, phen: 13 contacts rated at 5 amps max.		19A121469G1	Control unit modification kit (trunk mount).
J702		Receptacle. Includes:	1	19D402239G1	12 volt vehicle frame.
1	19A116061P2	Receptacle: 4 contacts; sim to Amphenol		19A122444P1	Cover, wire channel (on systems frame).
		91-PN4F-1000.		19C303452G1	Front casting (Front mount).
	19A116061P4	Lockwasher, internal tooth.		19C303452G2	Front casting (Trunk mount).
	19A116061P5	Nut, knurled: No. 13/16-27N-2.		4034260P3	Screw: 10-32 x 1-1/8 (Secures Front casting)
	19A116049P1	Solderless terminal.		5491682P2	Lock: Yale and Towne. (Part of Front casting
J703	19D402408P1	Connector, phen: 25 contacts rated at 5 amps max.		5491682P7	Cam. (Used with lock).
J704	19B216279G1	Jack assembly: 9 female contacts rated at 5 amps at 900 VRMS; sim to Winchester M9S-LRN.			DIMMER CONTROL MODIFICATION KIT
		200 (125, 512 00 1120005001 255 2120			19A121293G1
ŀ		RESISTORS			PHOY STOPS
R701		(Part of S701).		10000011401	
R703 and R704	5493035P19	Wirewound: 67 ohms ±5%, 5 w; sim to Hamilton Hall Type HR.	R705	19B209114P1	Variable, wirewound: 75 ohms ±20%, 3 w; sim CTS Series 112.
R706	3R77P100K	Composition: 10 ohms ±10%, 1/2 w.			POWER CABLE ASSEMBLY 19C3O3601G1 (12 VOLT FRONT MOUNT)
R707		(Part of S704).			19C303601G2 (12 VOLT TRUNK MOUNT)
				19B209189P1	Connector, phen: 8 contacts rate at 15 amps
					1100 VRMS; sim to Beauchaine and Sons S-5401-
8701	19C307089P19	Switch/Resistor: includes Switch, rotary, 3 poles, 3 positions, momentary shorting contacts,		19D402438P1	Cap, connector.
1		250 ma at 500 VRMS; Resistor (R701), variable, 5000 ohms ±20%, 1/2 w max; sim to Mallory LC5K-3133.		19A121444P2	Connector retaining screw.
8703	5491899P5			19A115313P1	Cable: 3 conductor, approx 9 feet long. (Us in 19C303601G1).
3703	3491099F3	Toggle: SPST, 3 amps at 250 VAC or 250 VDC; sim to Cutler-Hammer 8280Kl5.		19A115314P1	Cable: 3 conductor, approx 18 feet long. (U
S704	19C307089P22	Switch/Resistor: includes Switch, rotary, 4 poles, 2 positions, momentary shorting contacts,			in 19C303601G2).
		250 ma at 500 VRMS; Resistor (R707), variable, 2500 ohms ±10%, 1 w max; sim to Mallory LC2500-3142.			CONTROL CABLE ASSEMBLY 19C303626G1, G2 (1-FREQ) 19C303626G3, G4 (MULTI-FREQ)
		TERMINAL BOARDS			
TBl	7775500P12	Phen: 5 terminals.		19C303626G5	
	1110000112	Then. o terminars.	P1	19C303626G5	Plug, male: includes connector 19D402408P3, cap 19C303290P2 and connector retaining screw
		SOCKETS			19A121444P2.
XDS701 and	19B201122P2	Lamp, miniature: sim to Drake Series 121.		1	JACKS AND RECEPTACLES
XDS702			J1	19C303626G6	Plug, female: includes connector 19D402408Pl
		MECHANICAL PARTS		1	cap 19C303290P1 and connector retaining screw 19A121444P1.
		CONTROL UNIT MODELS 4EC59All1-All4 (SEE RC-ll82)		1	MISCELLANEOUS
		(DEE RU-1102)		19D402408P1	Connector, female phen: 25 contacts rated at 5 amps max.
1	N529P19C13	Plug button: approx 21/32 inches dia.		19D402408P3	Connector, male phen: 25 contacts rated at
2	N529P5C13	Plug button: approx 13/32 inches dia.		19C303290P1	5 amps max.
3	19A121521G1	Mounting bracket.			Cap, connector.
4	19B201122P3	Lens cap: green translucent nylon.		19C303290P2	Cap, connector.
5	19B201122P6	Lens cap: yellow translucent nylon.		7139880P11	Cable: 23 conductors. (When ordering specific length). (Used in 19C303626G1 and G2).
				7139880P8	Cable: 13 conductors. (When ordering specify length). (Used in 19C303626G3 and G4).

			Г	·		
SYMBOL	GE PART NO.	DESCRIPTION		SYMBOL	GE PART NO.	DESCRIPTION
6 7 8	NP276154 NP176153	Nameplate. (Used in Models 4EC59All1 and All2). Nameplate. (Used in Models 4EC59All3 and All4). (Not Used).			19Al 21429Pl	VEHICLE SYSTEM CABLE KIT 19A121454Gl (12 VOLT VEHICLES Pin: 1/2 inch long.

SYMBOL	GE PART NO.	DESCRIPTION	SYMBOL	
		VEHICLE SYSTEM CABLE KIT 19A121454G1 (12 VOLT VEHICLES)	İ	
	19A121429P1	Pin: 1/2 inch long.	ł	
	19A121441G1	Plug: 13 contacts.	1	
	19C303574P1	Cover: approx 1-13/16 x 1 x 1/32 inches.		
		FUSED LEAD ASSEMBLY 19A121314G1 (19A121454G1)		
	1R16P8	Fuse, cartridge, quick blowing: 5 amps at 250 v; sim to Littelfuse 312005 or Bussmann MTH-5.	-	
	7124109P3	Fuseholder: sim to Bussmann Type HDJ-B.		
	7112178P7	Cable: approx 8-3/4 feet long.	1	
		INTERCONNECTION HARNESS ASSEMBLY 19A122458G1		
		JACKS AND RECEPTACLES		
J505	19B204409Gl	Plug, male: 13 pin contacts.		
P101	19C3O35O6P1	Connector, phen: 20 contacts rated at 5 amps max at 600 VDC.		
P443	19C303506Pl	Connector, phen: 20 contacts rated at 5 amps max at 600 VDC.		
P703	19D402408P2	Connector, phen: 25 contacts rated at 5 amps max.		
		TERMINAL BOARDS		
TB901	7775500Pl1	Phen: 5 terminals.	1	
	19A122444P1	Channel Cover.	1	
			2	
		ANTENNA RELAY ASSEMBLY	3	
	}	19B209445P1 Includes J901, K901, P103, P441, W901-W903.	4	
			5	
		12 VOLT FUSEHOLDER 19B216021G4		
	19D413045P1	Base.	6	
	19D413046P1	Cover.	7	
	19B205950P1	Fuse clip.	8	
			l °	
	1R11P4	Outob blomings 15 and 250 m at to Dusans	10	
	IRIIFI	Quick blowing: 15 amps, 250 v; sim to Bussman NON15. (transmitters).	11	
			12	
		130 - 470 MHz ANTENNA MODEL 4EY12A13	13	
	İ	(5490969P13)	14	
		Antenna: includes stainless steel whip approx. 20 inches long; ball tip; whip socket; No. 6-32	15	
		set screw; rubber mounting gasket; antenna cable; cable adapter; PL-259 coaxial plug; sim to Antenna Specialists ASPD201GE or Danbury-Knudsen	16	
	5490969P4	Type PA-25. Whip: stainless steel, approx 20 inches long;	17	
		ball tip.	18	
	5490969P5	Socket, whip: with (2) No. 6-32 set screws.	19	
	5490969 P 6	Whip and whip socket: stainless steel whip approx 20 inches long with ball tip; whip socket with (2) No. 6-32 set screws.		
		Cable, antenna: approx 15 feet long. Type RG-58/U. (Used with GE Dwg 2R22Pl and GE Dwg 7105381Pl).		
	7105381P1	Adapter, cable: approx 1 x 7/16 inches dia. Type UG-175/U. (Used with GE Dwg 2R22P1 and		
		Type RG-58/U cable).	20	
		ı .	1	

1BOL	GE PART NO.	DESCRIPTION	SY
	2R22P1	Plug, coaxial: mica-filled insert, UHF contact. Signal Corps PL-259; sim to Amphenol 83-18P. (Used with GE Dwg 7105381P1 and Type RG-58/U cable).	21

Washer. Shure Brothers 34A309.

Transmitter cap. Shure Brothers 65Al97A. (Part of item 5).

Magnetic controlled cartridge. Shure Brothers RP13. Cable and plug. Shure Brothers RP48. (Used in 4EM26AlO).

Cable and plug. Shure Brothers 21RP738F. (Used in 4EM26C10).

HOOKSWITCH ASSEMBLY 19B204867G1 (SEE RC-1394)

Cable clamp; sim to WEC Kesser 3/16-4.

7491074P1

7102930P3

4033101Gl

7472880G5

5492239P1

2R22P1

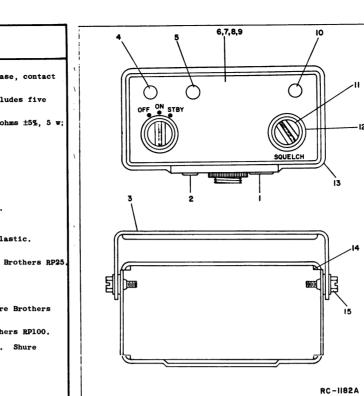
19A121577Gl

7134724P1

3R77P222K

4029851P4

DESCRIPTION	SYMBOL	GE PART NO.	DESCRIPTION
Plug, coaxial: mica-filled insert, UHF contact. Signal Corps PL-259; sim to Amphenol 83-1SP.	21	19A121612P1	Holder and switch: thermoplastic case, contact rating 1 amp at 125 v.
(Used with GE Dwg 7105381P1 and Type RG-58/U cable).	22	19A121581G1	Cable: approx 8-1/2 feet long, includes five 19A121429Pl pins.
25 - 50 MHz ANTENNA	23	5493035P10	Resistor, wirewound, ceramic: 3.5 ohms ±5%, 5 sim to Hamilton Hall Type HR.
Antenna: includes stainless steel rod approx 96-1/2 inches long; ball tip; lockwasher; No. 10-32 hex socket set screw; sim to Antenna	24	7775500 P 55	Terminal board, phen: 5 terminals.
Specialists ASPA3BGE. Adapter, antenna: approx 2-5/16 inches long. (Used with GE Dwg 7491074P1).			MILITARY MICROPHONE MODEL 4EM25M10 19B209102P6 (SEE RC-1163)
Antenna package: includes base; adapter spring;	1		Cable clamp. Shure Brothers 53A532.
cable and plug.	2		Switch. Shure Brothers RP26.
Antenna base. (Used in 4033101G1). Adapter spring. (Used in 4033101G1).	3		Case (back) and mounting button: plastic. Shure Brothers RP100.
Cable, antenna: includes Type RG-58/U cable	4		Switch button: red plastic. Shure Brothers RF
approx 15 feet long; PL-259 coaxial plug; mount- ing clip; ring tongue terminal; sim to Antenna	5		Spring. Shure Brothers RP16.
Specialists 15A43, (Used in 4033101G1).	6		Shield. Shure Brothers RP23.
Plug, coaxial: mica-filled insert, UHF contact. Signal Corps PL-259; sim to Amphenol 83-1SP. (Used with GE Dwg 5492239Pl in 4033101Gl).	7		Magnetic controlled cartridge. Shure Brothers RP13.
Coil, loading: 25 to 33 MHz; sim to Antenna	8		Case (front): plastic. Shure Brothers RP100.
Specialists ASPA87. Antenna hook kit.	9		Cable and plug: approx 6 feet long. Shure Brothers RP14.
Antenna hook. (Used in 19A121577G1).			5 WATT SPEAKER 4EZ16A23 19D402449G19
HANDSET MODEL 4EM26Al0 MODEL 4EM26Cl0 (SEE RC-1394)	Cl	19B209233P1	Electrolytic, non-polorized: 25 µf ±20%, 25 VDCW; sim to Sprague 44DC.
Self tap screw, bind head: No. 4 x 5/16. Shure Brothers 30C640C.	LS3	19B209422P1	Permanent magnet: 5 inch, 3.2 ohms ±10% imp, 2.98 ohms ±15% DC res, 7.5 w max operating.
Cable clamp. Shure Brothers 53A532.	W2	7484521G7	Speaker: 2 conductor with 2 spade tongue terminals, approx 4 feet long.
Shield. Shure Brothers RP19.			
Switch. Shure Brothers RP81.			MECHANICAL PARTS
Case. Shure Brothers RP49. (Used in 4EM26Al0).			
Case. Shure Brothers 21RP899F. (Used in 4EM26Cl0).		19B216269G4	Speaker housing.
1	i I	19A121550G3	Cover,
Adapter. Shure Brothers 65A230.			
Adapter. Shure Brothers 65A230. Magnetic controlled cartridge. Shure Brothers RP41.		19A121521G1 5490407P33	Mounting support. Neoprene grommet. (Upper)
Magnetic controlled cartridge. Shure Brothers		l	
Magnetic controlled cartridge. Shure Brothers RP41.		5490407P33	Neoprene grommet. (Upper) Rubber grommet. (Lower) Screw, nex head: No. 1/4-20x5/8.
Magnetic controlled cartridge. Shure Brothers RP41. Resistor, composition: 2200 ohms ±10%, 1/2 w.		5490407P33 19A115470P1	Neoprene grommet. (Upper) Rubber grommet. (Lower)
Magnetic controlled cartridge. Shure Brothers RP41. Resistor, composition: 2200 ohms ±10%, 1/2 w. Receiver cap. (Part of item 5).		5490407P33 19A115470P1	Neoprene grommet. (Upper) Rubber grommet. (Lower) Screw, nex head: No. 1/4-20x5/8.
Magnetic controlled cartridge. Shure Brothers RP41. Resistor, composition: 2200 ohms ±10%, 1/2 w. Receiver cap. (Part of item 5). Washer. Shure Brothers 34A321.		5490407P33 19A115470P1	Neoprene grommet. (Upper) Rubber grommet. (Lower) Screw, nex head: No. 1/4-20x5/8.
Magnetic controlled cartridge. Shure Brothers RP41. Resistor, composition: 2200 ohms ±10%, 1/2 w. Receiver cap. (Part of item 5). Washer. Shure Brothers 34A321. Escutcheon. Shure Brothers 53A536A.		5490407P33 19A115470P1	Neoprene grommet. (Upper) Rubber grommet. (Lower) Screw, nex head: No. 1/4-20x5/8.
Magnetic controlled cartridge. Shure Brothers RP41. Resistor, composition: 2200 ohms ±10%, 1/2 w. Receiver cap. (Part of item 5). Washer. Shure Brothers 34A321. Escutcheon. Shure Brothers 53A536A. Actuator. Shure Brothers 53A556.		5490407P33 19A115470P1	Neoprene grommet. (Upper) Rubber grommet. (Lower) Screw, nex head: No. 1/4-20x5/8.
Magnetic controlled cartridge. Shure Brothers RP41. Resistor, composition: 2200 ohms ±10%, 1/2 w. Receiver cap. (Part of item 5). Washer. Shure Brothers 34A321. Escutcheon. Shure Brothers 53A536A. Actuator. Shure Brothers 53A556. Spring. Shure Brothers 44A140.		5490407P33 19A115470P1	Neoprene grommet. (Upper) Rubber grommet. (Lower) Screw, nex head: No. 1/4-20x5/8.



___ CONTROL UNIT

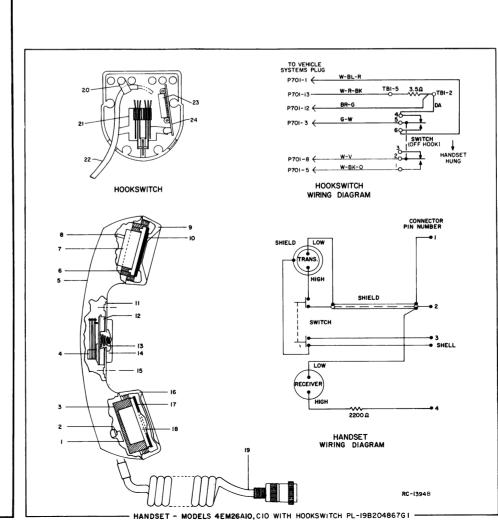
PRODUCTION CHANGES

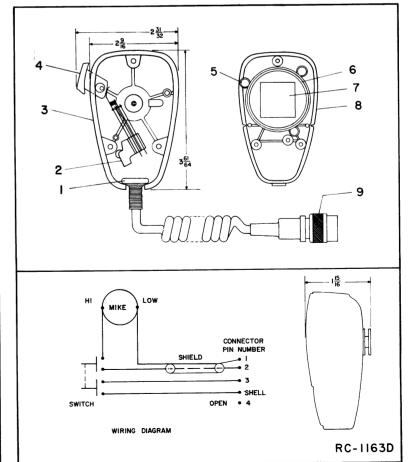
Changes in the equipment to improve performance or to simplify circuits are identified by a "Revision Letter", which is stamped after the model number of the unit. The revision stamped on the unit includes all previous revisions. Refer to the Parts List for descriptions of parts affected by these revisions.

REV. A — Modelè 4EC59Alll, 114
Added mike hi, PTT, earphone and ground to
Tone Option Jack J704.

V.C. HI A > W-G A. F. HI B 20C-W
A. F. LO C W-BK +13.6 v.Sw. D W-BR
SYSTEM NEG. E W-0

Schematic Diagram was:





*COMPONENTS ADDED, DELETED OR CHANGED BY PRODUCTION CHANGES

ORDERING SERVICE PARTS

Each component appearing on the schematic diagram is identified by a symbol number, to simplify locating it in the parts list. Each component is listed by symbol number, followed by its description and GE Part Number.

Service parts may be obtained from Authorized GE Communication Equipment Service Stations or through any GE Radio Communication Equipment Sales Office. When ordering a part, be sure to give:

- GE Part Number for component
 Description of part
 Model number of equipment
 Revision letter stamped on unit

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance.

Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's purposes, contact the nearest Radio Communication Equipment Sales Office of the General Electric Company.

MOBILE RADIO DEPARTMENT
GENERAL ELECTRIC COMPANY ● LYNCHBURG, VIRGINIA 24502

