

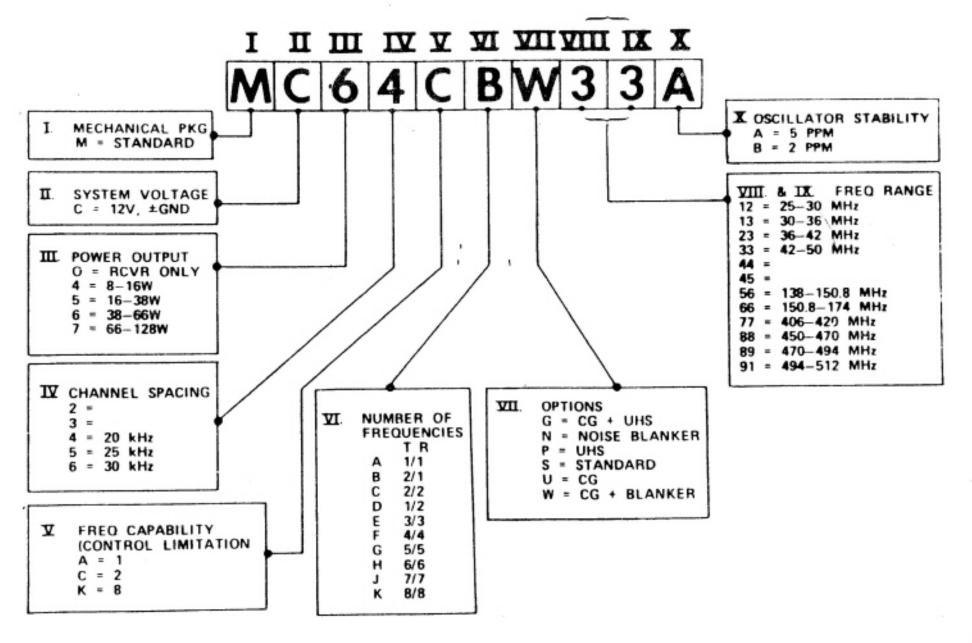
Lynchburg, Virginia

Mastr-2 Mobile Training Class Handouts

Circa 1975

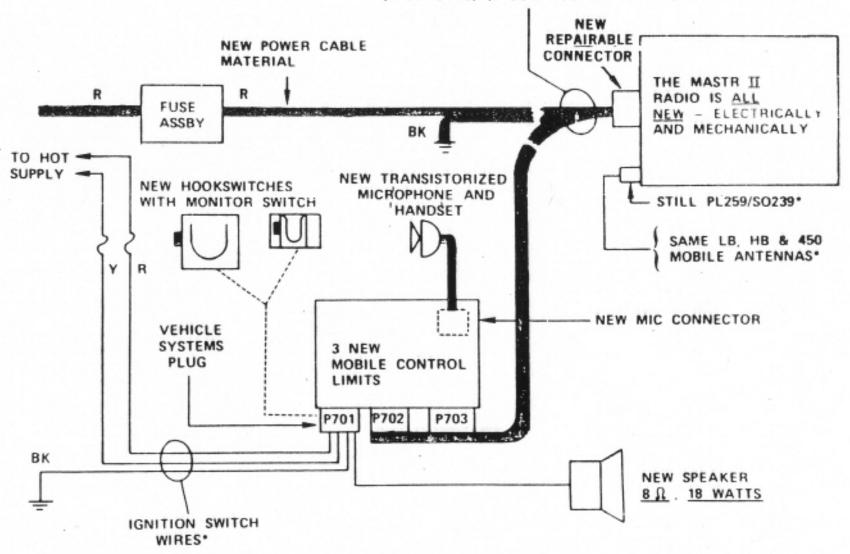
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24 October 2004
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MASTR II MOBILE COMBINATIONS



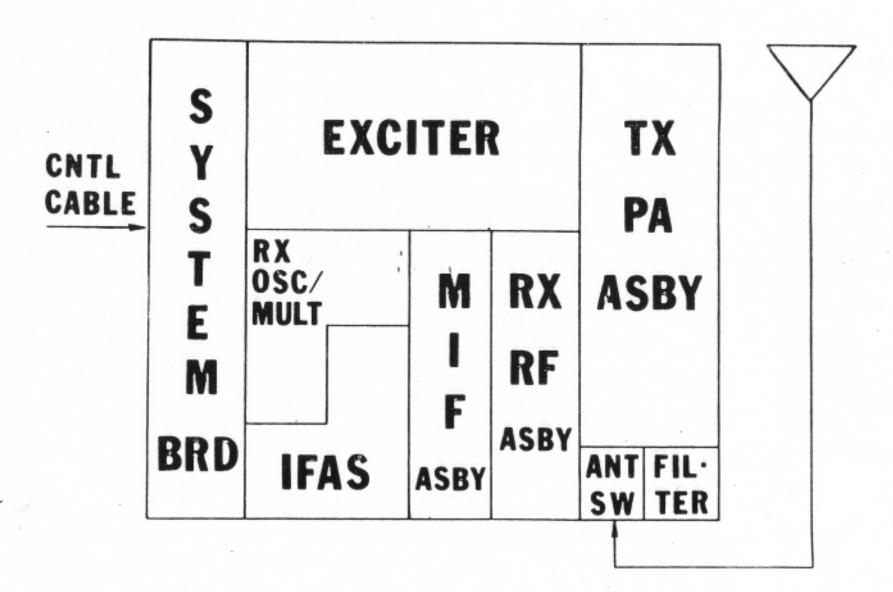
MASTR II MOBILE COMBINATIONS

NEW <u>COMBINATION</u> POWER & CONTROL CABLE ASSEMBLIES (3 LENGTHS) (3 CONTROL CAPACITIES) = 9 NEW ITEMS

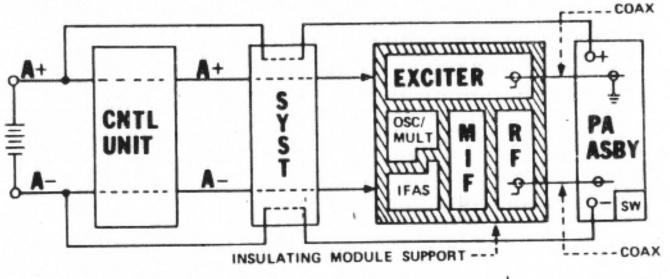


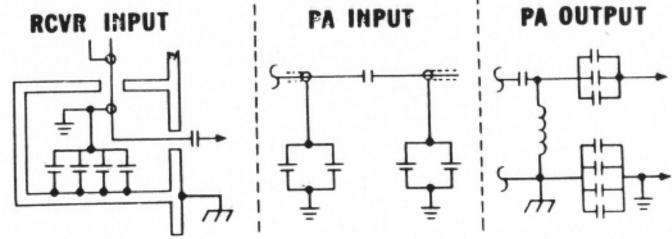
*SAME AS MASTR PROFESSIONAL SERIES

WHAT'S INSIDE COUNTS, TOO!



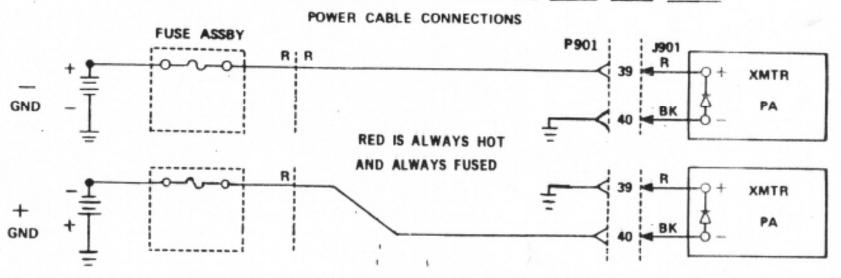
HOW THE RADIO FLOATS



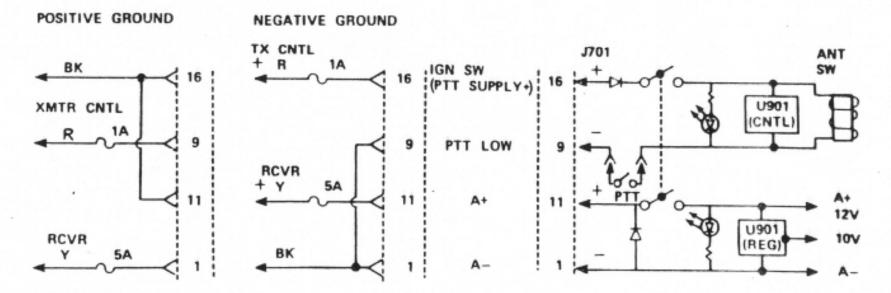


12 VOLT SYSTEM CONNECTIONS FOR ± GROUND

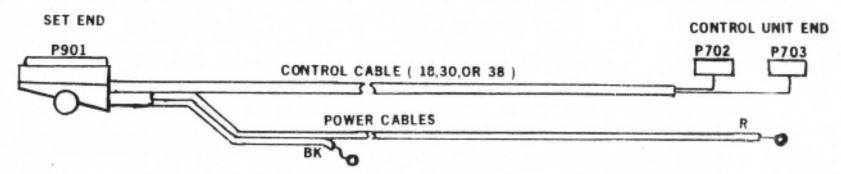
SO FAR AS VEHICLE GROUND IS CONCERNED THE ENTIRE RADIO FLOATS



VEHICLE SYSTEMS PLUG



MASTR II POWER/CONTROL CABLE ASSEMBLIES



	19D4	SELECT GROUP NUMBER FOR DESIRED LENGTH AND NUMBER OF CONTROL CABLE CONDUCTORS					
NOMINAL LENGTH	CNTL CABLE	POWER RED	CABLES BLACK	POWER CABLE CONDUCTORS	18 COND	30 COND	38 COND
9ft.	9′ ±8″	15′ ± 6″	5′6″ ± 6″	2 NO. 12 AWG	G1	G7	G13
20ft.	20′ ±8″	26' ± 6"	5′6″ ± 6″	2 NO. 8 AWG	G2	G8	G15
27ft.	27' ±8"	33' ± 6"	5′6° ±6″	2 NO. 8 AWG	G3	G9	G14

-25°C (-13°F) RAW POWER CABLE: TEMP RANGE

+105°C (+221°F)

RAW CONTROL CABLE

TEMP RANGE

-25°C (-13°F)

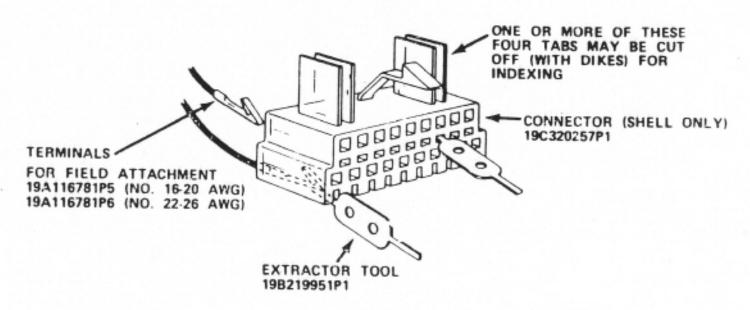
+80°C (-176°F)

MASTR II CONTROL CABLE CAPABILITIES

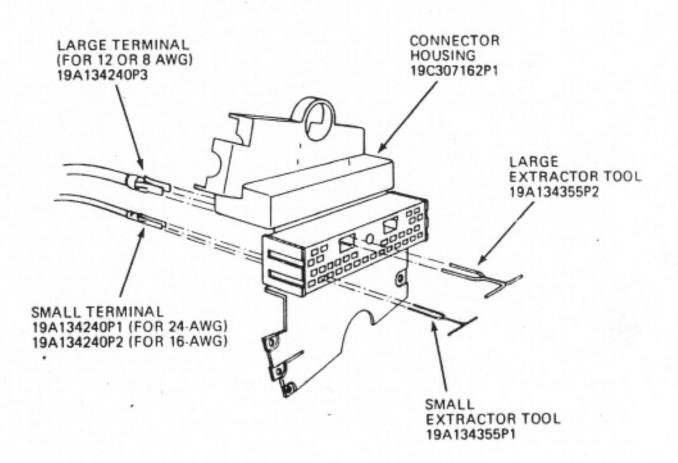
NUMBER COND	FUNCTIONS PROVIDED	INCLUDES	STANDARD WITH
18 COND	BASIC OPERATION OF 1F OR 2F RADIOS; INCLUDES: CG DISABLE, SQUELCH DISABLE, CARRIER ACTIVITY SENSOR (FOR CHNL BUSY INDICATOR)	P901 P702	"A" 1F COMBS "C" 2F COMBS W/O OPTIONS WHICH USE CONDUCTORS
30 COND	ADDS F3-F11, 24V CONTROL, BLANKER DISABLE, RX PA INPUT	P901 P702 P703	"K" BF MAX COMBS & "A" & "C" COMBS W/OPTIONS
38 COND	ADDS F12 AND. 7 UNASSIGNED SPARES	P901 P702 P703	NONE (INTENDED FOR SPECIALS)

"KONEKTON" CONTROL CONNECTORS

P701, P702, P703



SET CONNECTOR P901



C-500 SERIES CONTROL UNITS

SINGLE FREQUENCY								,							19D423590G1
TWO FREQUENCY .						,									19D423590G2
SINGLE FREQUENCY	W)	T	1 (OP'	I (ONS	S.								19D423590G3
EIGHT FREQUENCY.								,							19D42359064
TWELVE FREQUENCY												,			19D42359065

CONTROL UNIT OPTION KITS

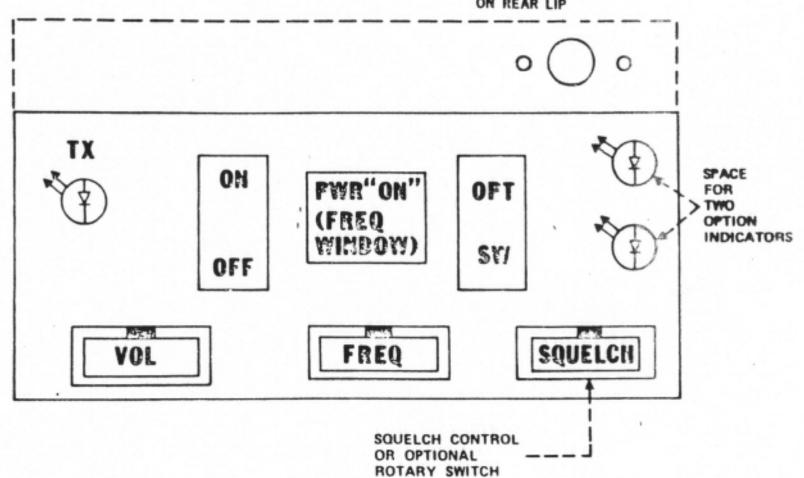
19A129567G1 19A129567G2 19A129567G3 19A129567G5 19A129567G5	INT/EXT SPKR PUBLIC ADDRESS FIXED SOUELCH SOUELCH RELAY	19A129567G7 19A129567G8 19A129567G9 19A129567G13-15 19A129567G17.	NOISE BLANKER SW. DUAL CONTROL TYPE 99 DECODER TYPE 90 ENCYDEC.
19A12956766 : : : :	Z FREO, PSLM CHANNEL BUSY LIGHT	19A129567G17	TONE JACK

MUTUALLY EXCLUSIVE OPTIONS

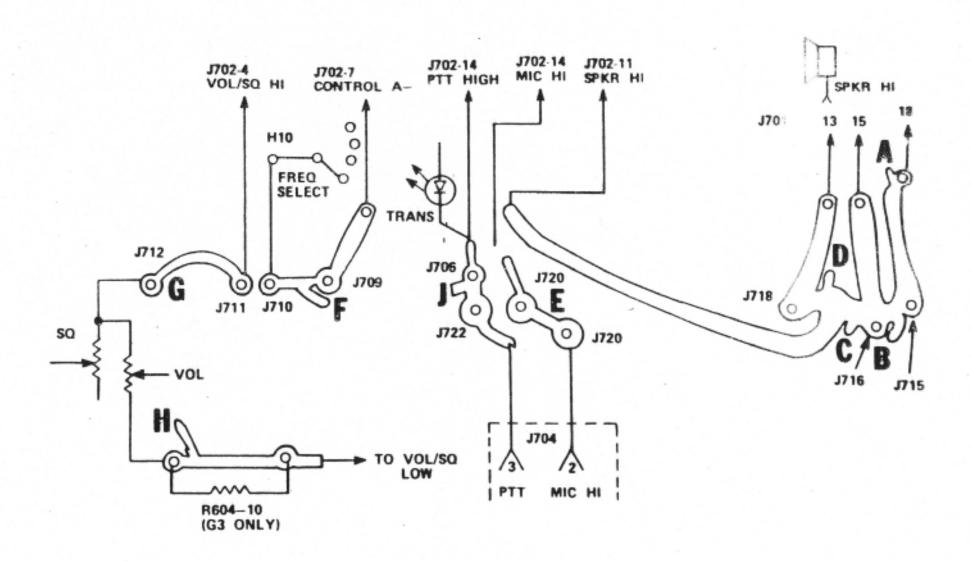
G1, G2, G4, G5, G9 & G13-G15 - USES SAME MOUNTING SPACE G7 & G17 USES SAME MOUNTING SPACE

CONTROL UNIT

MOUNTING SPACE FOR SLIDESWITCH OR WINCHESTER CONNECTOR ON REAR LIP

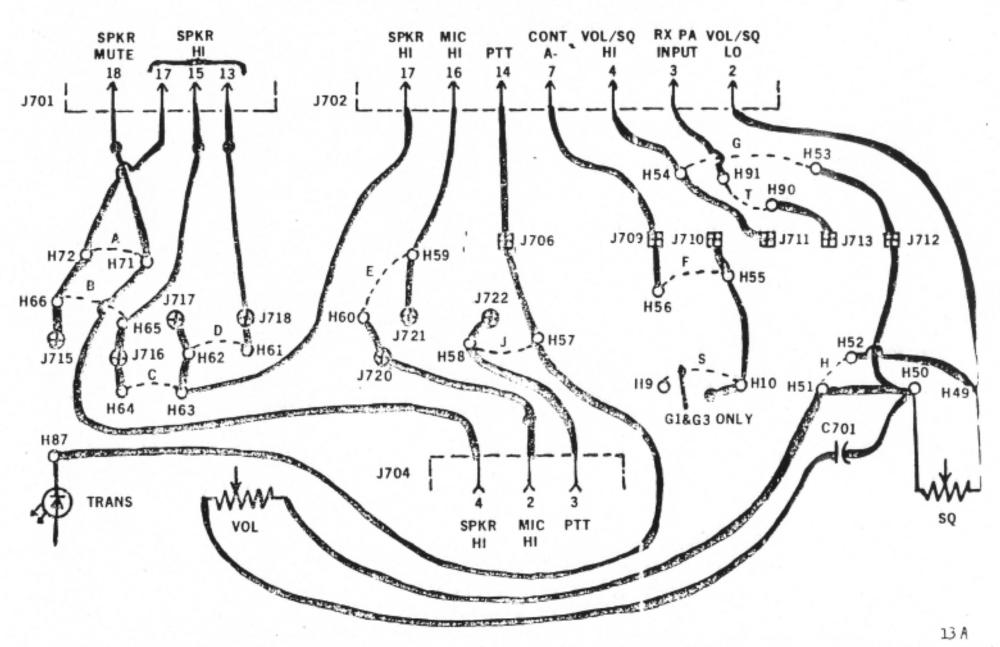


CONTROL UNIT PWB MODIFICATIONS

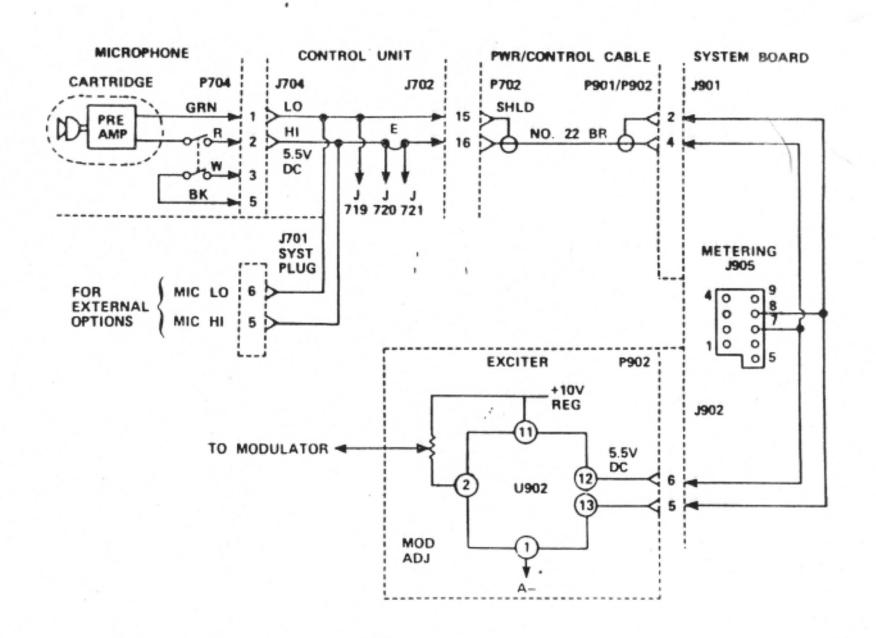


C-500 SERIES

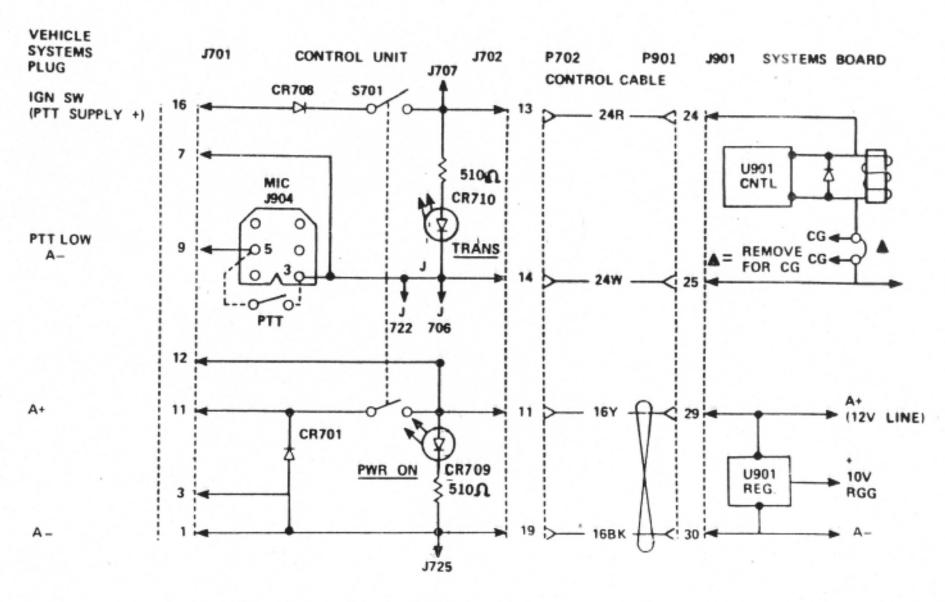
CONTROL UNIT JUMPER MODIFICATIONS



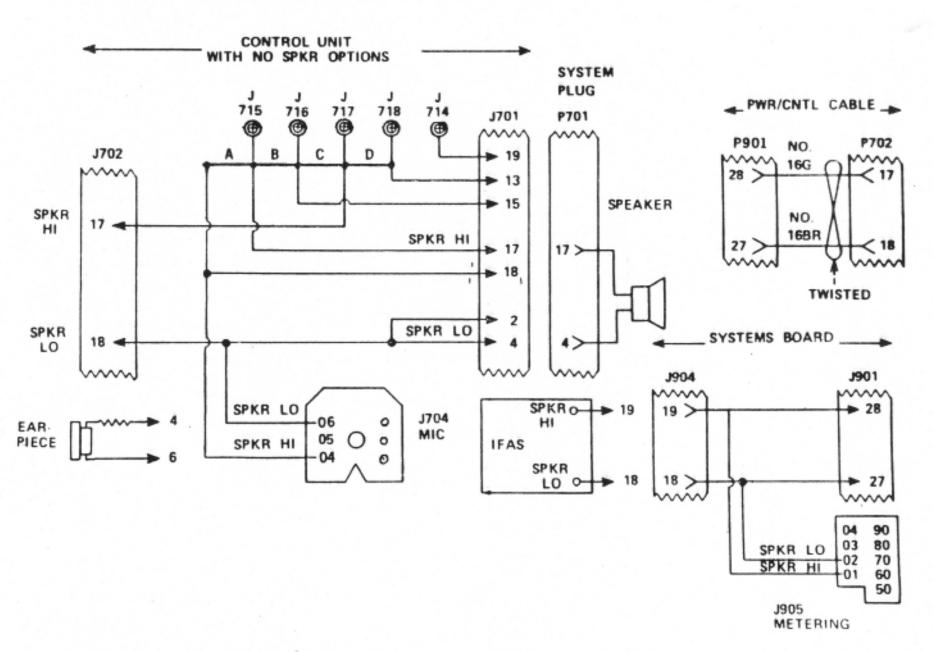
MICROPHONE CIRCUIT



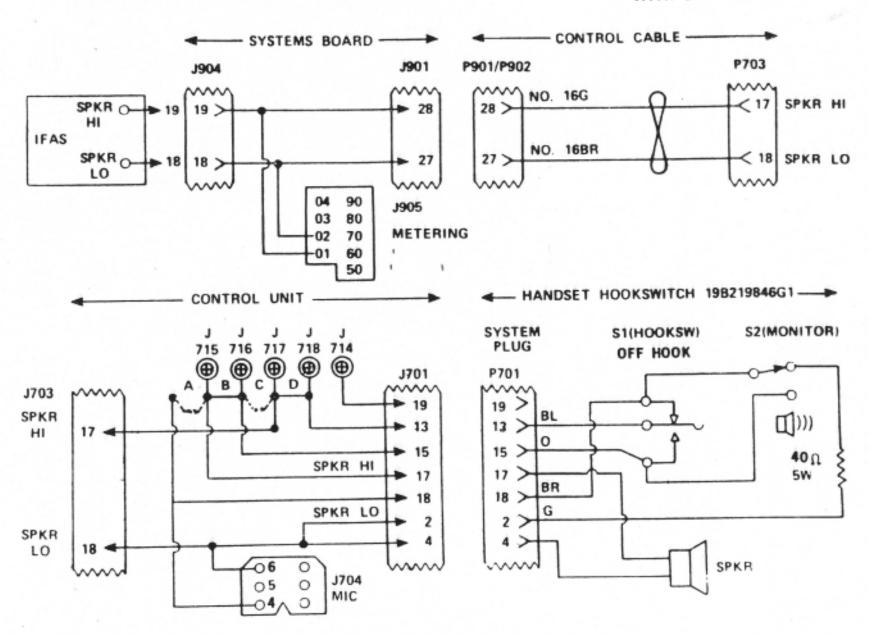
POWER DISTRIBUTION PUSH-TO-TALK CONTROL



LOUDSPEAKER

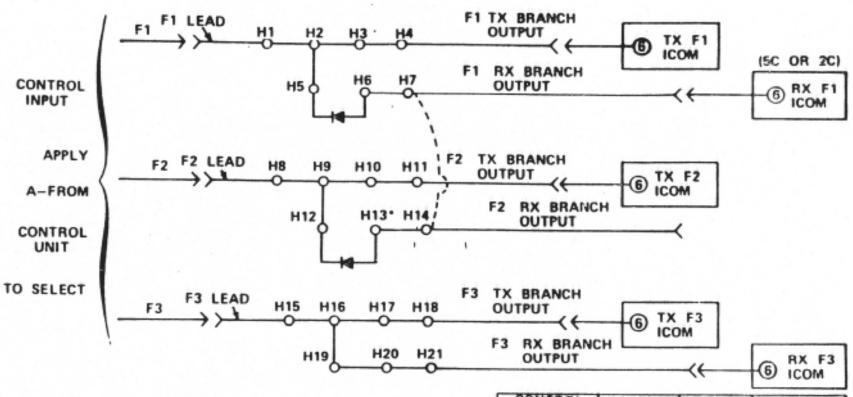


HANDSET AND HOOKSWITCH WITH SPEAKER MUTE



REPEATING FREQUENCIES DIODE MATRIX

SYSTEM BOARD



WHEN ONE ICOM ITX OR RXI IS TO BE ENERGIZED BY YORE THAN ONE CONTROL INPUT

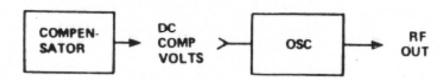
- 1 . FOR EACH SUCH LEAD
 - A CUT THE FIRST LINK IN THE APPROPRIATE BRANCH FOR TX, H2 H3, H9-H10, ETC, FOR RX H5-H6, H12-13, ETC -
 - B REPLACE EACH CUT LINK WITH DIODE CATHODE TOWARD CONTROL !NPUT

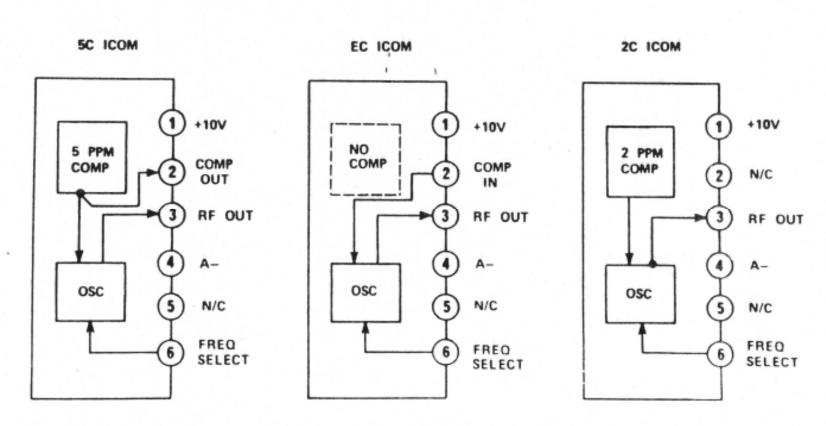
2	118	DI	3DO	EQUIPP: D	BEANCH	OUTPUTS	TOGETHER
	USIN	IG	DA	JUMPERS			

CONTROL UNIT SWITCH	RX FREQ	TX FREQ	LINKS CUT
1	RX F1	TX F1	5-6
2	RX F1	TX F2	12-13
3	RX F3	TX F3	

MASTR II FREQUENCY CONTROL

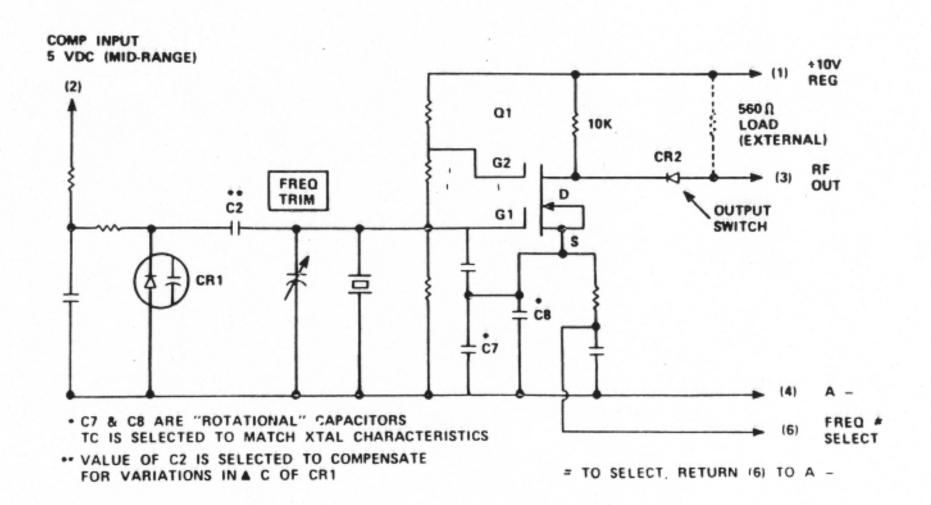
THE ELEMENTS





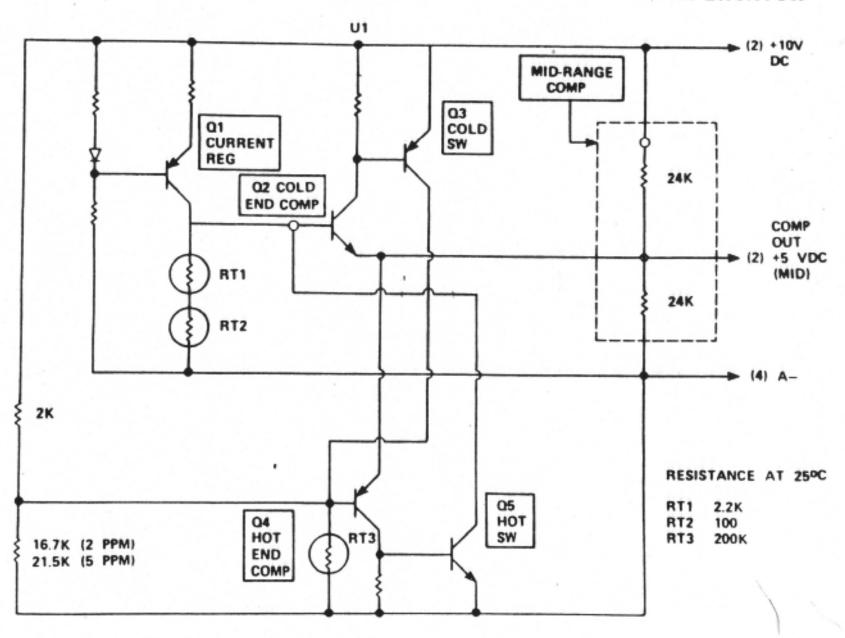
MASTR II FREQUENCY CONTROL

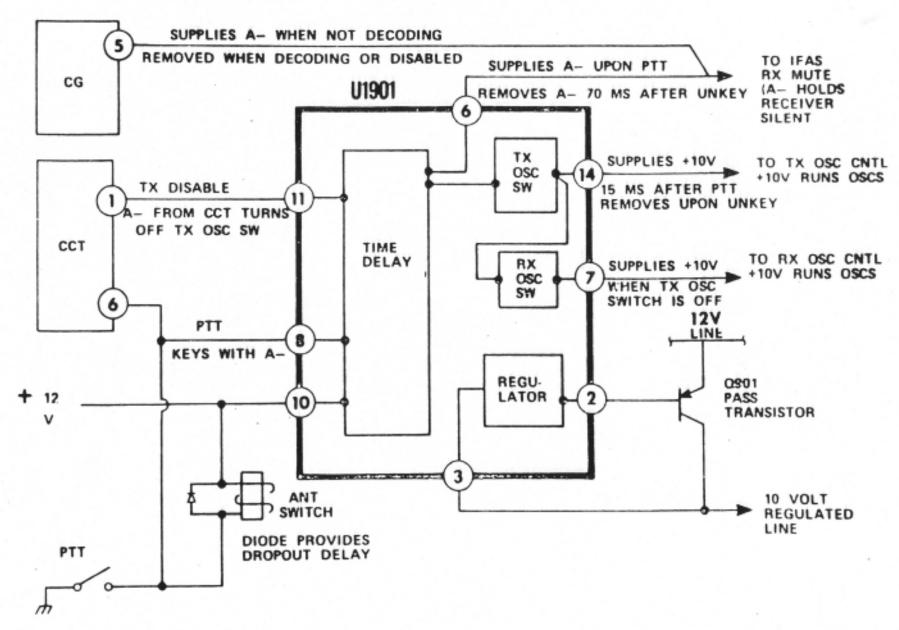
ICOM OSCILLATOR



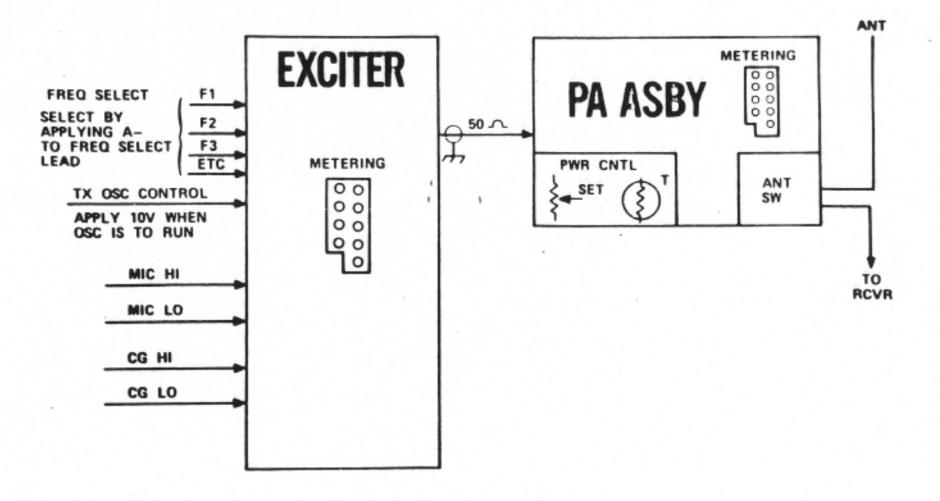
MASTR II FREQUENCY CONTROL

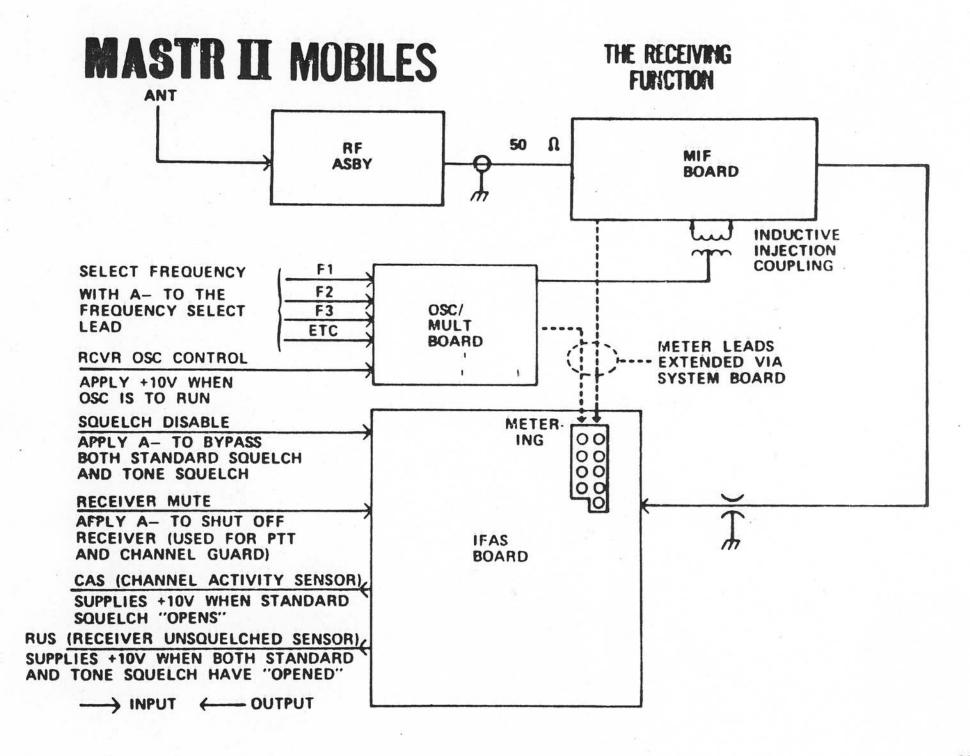
ICOM COMPENSATOR

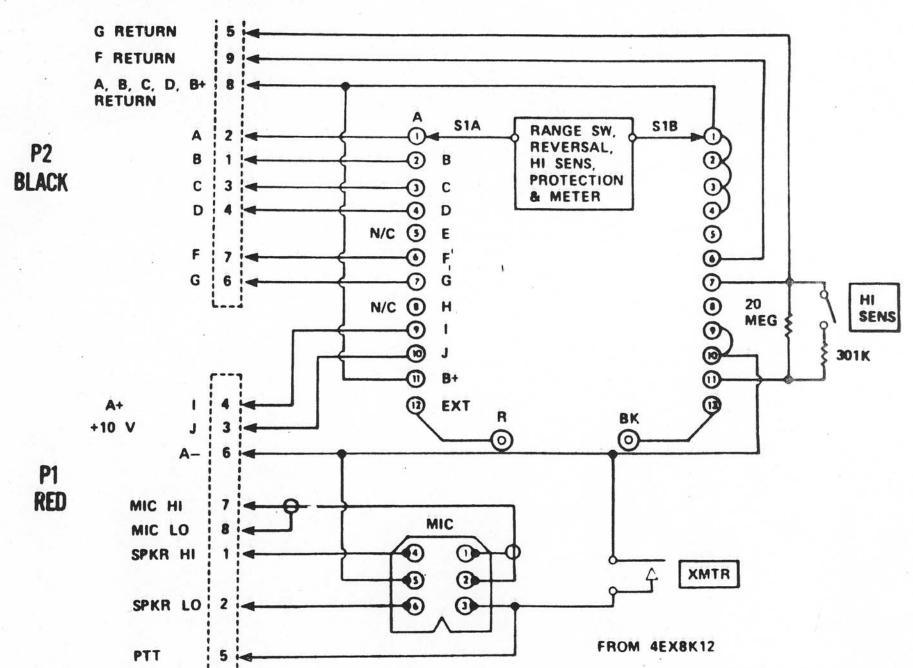


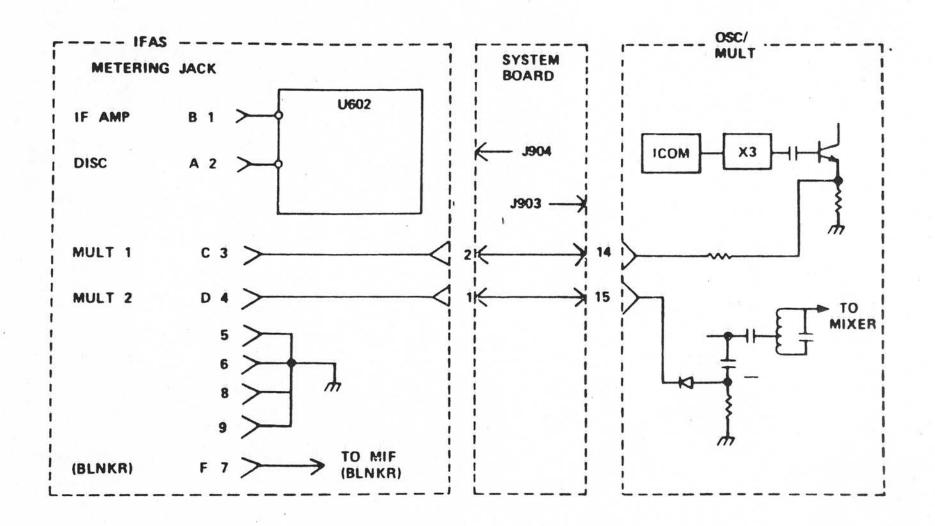


THE TRANSMITTING FUNCTION



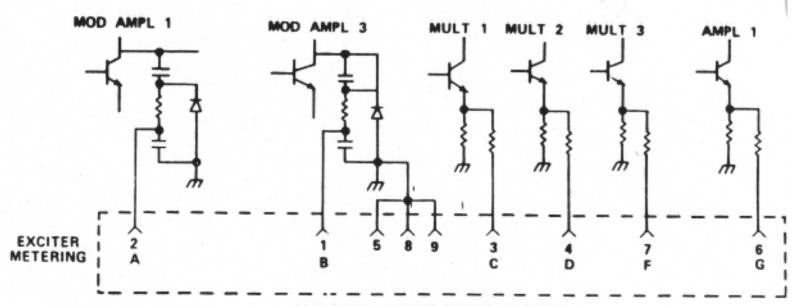




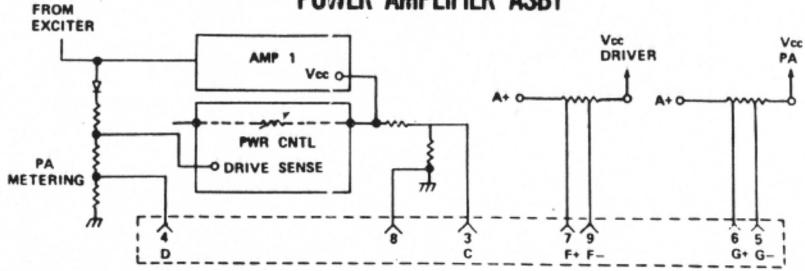


TRANSMITTER METERING

EXCITER



POWER AMPLIFIER ASBY



HAND TOOLS

POZIDRIV SCREWDRIVERS

SMALL #1 POZIDRIV 3/16" x 3"	ST0603
MEDIUM #2 POZIDRIV 1/4" x 4"	ST0604
XCELITE FOR HANDLE IN SERVICE MASTER	
SMALL #1 POZIDRIV XCELITE 99-831	ST1018
MEDIUM #2 POZIDRIV XCELITE 99-832	ST1019
LARGE #3 POZIDRIV XCELITE 99-833	ST1020
MAGNETIC 1/4" DRIVE HANDLE	
HANDLE 8" OVERALL IN LENGTH MAGNETIC	ST0701
SMALL #1 POZIDRIV TIP 2" LONG	ST0706
MEDIUM #2 POZIDRIV TIP 2" LONG	ST0705
#3 PHILLIPS	ST0704
FLAT BLADE 3/16" x 2 3/4"	ST0702
FLAT BLADE 1/4" x 1"	ST0703
TORQUE WRENCH KIT	
GE PART NO.	ST2304