## B. Installation (Cont)

## CONTROL FUNCTIONS

Functions of the various controls are as follows:

MICROPHONE GAIN Controls potentiomater

R1603 in the grid V16B and

controls amount of audio

to the balanced modulator.

Functions of the vario	ous controls are as follows:		
ON-OFF SWITCH	Controls main power to the transceiver.	CARRIER BALANCE	Controls potentiometer R1405 in the balanced mod- ulator deflection plate cir- cuit, and permits balancing
FUNCTION SWITCH	Controls the various modes of operation of the		of the carrier.
Standby	transceiver.  DC Supply - Power to the transceiver is dis- abled.	RF GAIN (In Frequency Control Unit)	Controls variable resistor R1801 which is common in the cathodes of V6, RF Amplifier, V8 1st IF Am- plifier and V9, 2nd IF Am-
	AC Supply - All voltages except medium voltage		plifier, controlling gain of these stages.
	are supplied.  AC Supply - Plate and	ÁF GAIN	Controls potentiometer R1201 in grid circuit of
Calibrate	screen voltage are ap- plied to V13.DC Supply- 12 volts dc is provided		V12 AF Output, and varies the gain of the final audio output amplifier.
	to the relay circuit, high and medium voltages sup- plied to the plate circuits and bias voltage is pre-	MAIN TUNING	Controls C1804 in frequency determining tank circuit of Frequency Control Unit.
	vided to the relay con- trolled circuits.	PA GRID	Controls CIA and CIB in plate tanks of transmitter mixer and driver.
Receive	Same as for Calibrate but voltage to V13 removed.	PA TUNE	Controls C417 in pi-net- work to tune final power amplifier plate to resonance.
Transmit	12 volt de circuit through relay K1 and K2 is completed, and all tubes used only in receive are blased to cutoff.	PA LOAD, Fine	Controls C420 in pi-natwork to match impedance of out- put load. Tunes input to Receiver RF Amplifier.
Тиле	All circuits for transmit are energized, as above, but one deflection plate of the balanced modula-	PA LOAD, Coarse	Switches in progressively more capacitance in paral- lel with PA Load, Fine.
	tor is grounded, capacitor C1504 in the carrier os- cillator is removed from ground, C1503 is grounded.	MAIN BANDSWITCH	Switches, plate coils, and associated capacitors of VFO Amplifier, V1, Transmitter Mixer, V2, and Driver, V3, Also switches

ver, V3. Also switches

tors in PA output tank.

tank coil of pi-coupling sys-

tem and associated capaci-