



ESPEY MODEL 581

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<b>TRADE NAME</b>	Espey, Model 581
<b>MANUFACTURER</b>	Espey Mfg. Co., 528 E. 72nd St., New York, 21, N. Y.
<b>TYPE SET</b>	Three Power Multi-Band Superheterodyne Receiver
<b>TUBES (EIGHT)</b>	Types, 1LN5 RF Amp., 1LC6 Converter, 1LN5 1st IF Amp., 1LN5 2nd IF Amp., 1LH4 Det.-AVC-AF, 50A5 (AC Operation), 3LH4 or 3Q5GT (Batt. Operation) Power Output, 35Y4 Rectifier.
<b>POWER SUPPLY</b>	105-125 Volts AC-DC or 12 Volt "A" Battery & 90 Volt "B" Battery
<b>RATING</b>	.270 Amp. @ 117 Volts AC or 56 MA @ 13 Volts DC and 11.7 MA @ 92 Volts DC
<b>TUNING RANGE—BROADCAST</b>	540-1700KC
<b>SHORT WAVE</b>	3.85-8.5MC 8.5-19.5MC

**ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT**

To set pointer turn variable fully closed and set pointer parallel with horizontal line in center of dial. Use battery power when available. When using a-c power use isolation transformer if available. If not, connect a capacitor in series with low side of signal generator and chassis. Volume control should be at maximum volume and output of signal generator no higher than necessary to obtain output reading. Use insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 MFD.	High side to center stator of variable. Low side to B-.	455KC	B1	Variable fully open.	Across voice coil	A1,A2, A3,A4.	Adjust for maximum output. If a-c power is used without an isolation transformer, reduce dummy ant. to .001 MFD. to reduce hum modulation.
200MMFD	High side to ant. terminal. Low side to chassis.	1600KC	"	1600KC	"	A5	Adjust for maximum output
200MMFD	"	1400KC	"	Tune for maximum output.	"	A6,A7	" " " "
200MMFD	"	600KC	"	"	"	A8	Rock variable and adjust for maximum output. Repeat last three steps.
400Ω	"	8MC	B2	8MC	"	A9	Adjust for maximum output.
400Ω	"	"	"	Tune for maximum output.	"	A10A11	"
400Ω	"	5MC	"	"	"	A12	Rock variable and adjust for maximum output. Repeat adjustments of A9, A10, A11.
400Ω	"	19MC	B3	19MC	"	A13	Adjust for maximum output
400Ω	"	"	"	Tune for maximum output.	"	A14,A15	" " " "
400Ω	"	10MC	"	"	"	A16	Rock variable and adjust for maximum output. Repeat adjustments of A13, A14, A15.

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