

# A NEW VOICE FOR "PITC"— PITCAIRN ISLAND

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**PITCAIRN**—that tiny island in the South Seas—is steeped in an atmosphere of romanticism and adventure. It was here, in 1790, that the small band of mutineers from His Majesty's Ship *Bounty* sought refuge from the ire of the British Crown. Edward Young, a midshipman on the *Bounty* was one of the nine Englishmen who sailed away from Tahiti in 1789 and eventually settled on Pitcairn Island.

## Andrew Young . . .

One hundred and twenty years later found one Andrew Young, a direct descendent of the colorful midshipman, living on the same island where most things

remain much the same as they were when the men from the *Bounty* first set foot on the rockbound shores.

Last year Alan Eurich, W8IGQ, then radio operator aboard the Schooner *Yankee*, visited Pitcairn and met Andrew Young. He was shown what few people have seen—the island radio station, PITC.

Unversed in the mysteries of radio, and having only the crudest equipment on hand, Andrew Young had still managed to contrive a radio transmitter and receiver with which he was able to contact the few ships that occasionally passed his remote island community. In An-

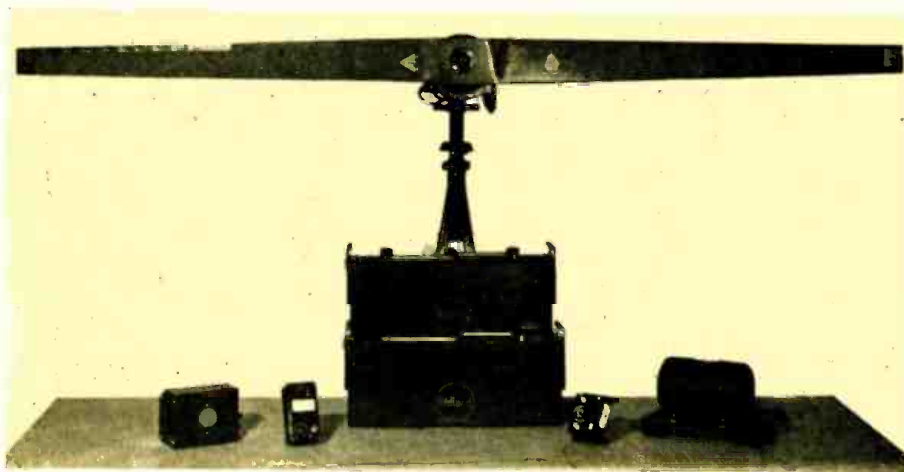
drew Young, Eurich recognized the true amateur spirit.

Eurich's story of Andrew Young and his pitiful "PITC" was responsible for the plan to assist the natives of Pitcairn that they might in the future have adequate and foolproof communication facilities at their disposal. The idea was enthusiastically received by all manufacturers who were contacted, and without exception they agreed to donate the equipment and components required for a complete installation.

Carl Madsen, W1ZB, who had maintained contact with Eurich aboard the *Yankee* throughout her world cruise, apprised him of the project under way. As a consequence W8IGQ was able to provide a complete report on conditions on the island and offer suggestions regarding the design and selection of satisfactory equipment. He stressed the importance, for instance, of high-grade insulation, since the salt air enveloping Pitcairn had demonstrated its bad effects on usual forms of insulation. He also reported that no source of primary power was available.

## The Plan Takes Shape

It was decided at the outset that storage batteries and a wind-driven generator for charging purposes would be the only practical source of power for the operation of the transmitter and receiver. Storage batteries of large capacity were selected to take care of heavy loads and at the same time provide suf-



Source of primary power—the windcharger, the two 6-volt storage batteries and the dynamotors for providing the high voltages. Also shown is a small test set for trouble shooting.



ficient reserve during periods of low wind velocity. Since both transmitter and receiver would have to operate entirely from this power source, dynamotors were selected to provide plate power.

The next point considered was the wavelengths on which the transmitter should operate. Since communication with passing ships was an essential, it was decided to include means for tuning to 600 meters. The 20- and 40-meter amateur bands were chosen for long-distance work, and provisions were made for phone work in these two bands. A receiver was selected that covered all three of these wavelengths and had sufficient sensitivity, selectivity and bandspread to meet all conditions that might be encountered.

In both the design and selection of the equipment it was necessary to keep in mind at all times that it be conservative of battery drain, as well as simple and foolproof as possible from the standpoint of connecting and operating, since Andrew Young has had no experience with tube transmitters.

### Power Source

A 12-volt battery system was chosen to minimize IR drop in the feed lines. This consisted of two Willard 6-volt, 300-ampere-hour batteries connected in series. A Parris-Dunn 12-volt wind-charger was obtained to supply the battery charging current. This outfit provides an 8-ampere charging rate in a 20-mile wind. There is a cut-out which disconnects the batteries when the wind velocity falls below 6 miles per hour. This prevents the batteries from discharging through the line when the charging rate is too low. The windcharger is mounted on a 12-foot steel tower which will permit Young to get the 8-foot impeller well above ground and in favorable wind stream. Since the storage batteries will provide the desirable reserve power for 8 to 10 hours' operation in the event

of lulls in wind velocity, it should be possible to operate both transmitter and receiver in excess of 10 hours a day without fear of power failure.

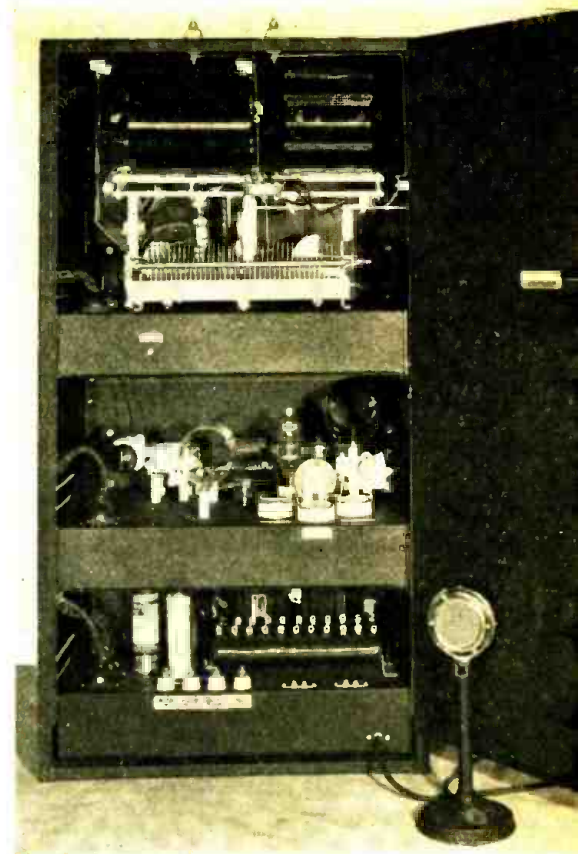
### The Audio Channel

The transmitter consists of three separate chassis mounted in a Par-Metal 36-inch rack-and-panel cabinet, as shown in the accompanying front and rear views. The lower deck contains the speech amplifier and modulator, and a power distribution center for the 750-volt dynamotor and storage battery supply. The circuit of this unit is shown in Fig. 1. A Shure Model 70S crystal mike feeds a 6J7 which in turn is transformer-coupled to 6C5 push-pull drivers for the 6L6 modulator tubes.

Obtaining maximum performance from these tubes was quite a problem since they obtain their 450-volt plate supply from a bleeder network, and bias from the cathode resistor. It was learned that while poor voltage regulation was a stumbling block to the securing of a satisfactory level of a.f. output, the real hinderance was a variation in bias. This was minimized by returning the 6L6 grids to the negative battery lead and using a lower value of cathode bias resistor. This provided a fairly steady bias of 25 volts even when over-driving the amplifier.

Individual bleeder networks are provided in this unit, one for the a.f. channel and the other for the r.f. oscillator. In this manner voltage variations appearing across the a.f. bleeder, R10-R12, on modulation peaks cannot influence the oscillator voltage.

A three-position selector switch of the rotary type permits the choice of c.w. or phone operation. In the off position all filaments in the transmitter are cold; in the c.w. position only the oscillator and



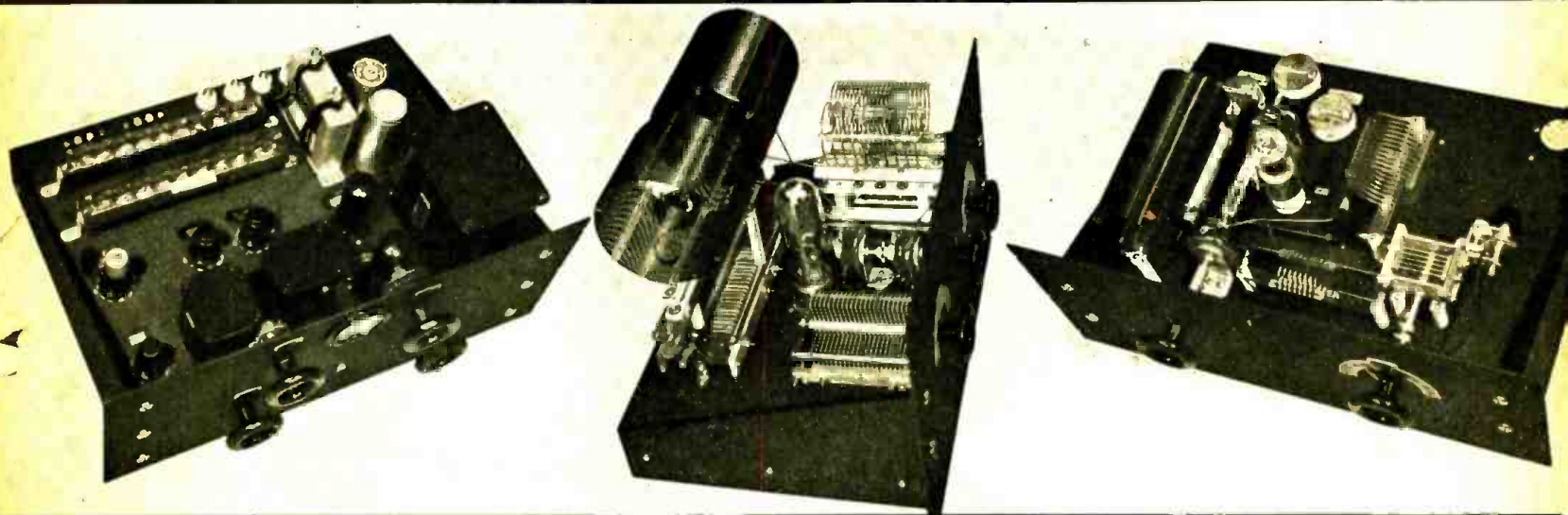
Rear of transmitter cabinet, with door open, showing the three chassis shown separately below, and the microphone. The lower chassis is the power distribution and audio system.

final amplifier filaments are energized and the high-voltage supply to the a.f. bleeder is opened, thus reducing the load on the dynamotor. In the phone position the a.f. bleeder is connected to high voltage and the oscillator keying terminals are shorted, thus providing a continuous carrier.

### The Crystal Oscillator

The central chassis carries the crystal-controlled oscillator. The circuit is shown

From left to right; power and audio chassis, the final amplifier chassis and the crystal-controlled oscillator chassis.





in Fig. 2. This employs an RCA-807 with cathode regeneration to provide adequate drive on all bands for high-level modulation. Three Bliley type VP4 crystals are employed, one each for the 20, 40 and 600-meter bands.

The selection of any one crystal and its associated tank inductor is taken care of by means of the ganged Ohmite band switches, SW1-SW2. The 50-mmfd. tank condenser, C5, is connected from the plate of the 807 to ground so that it is in circuit on all three bands irrespective of the band-switch setting. On 600 meters, however, a 150-mmfd. condenser, C6, equipped with a locking device, is shunted across the tank coil, being automatically picked up by the band switch. The 50-mmfd. condenser is brought out to a front-of-panel control for tuning on 20 and 40 meters, and provides sufficient capacity to induce resonance on 600 meters at which wavelength it parallels the 150-mmfd. condenser.

### The Final Stage

The uppermost chassis in the transmitter cabinet accommodates the final amplifier stage. The circuit is shown in Fig. 3. An Amperex ZB-120 was chosen because of its very high  $\mu$  and consequent low bias and driving requirements. It will be noted from this diagram that the 600-meter circuit is capacity loaded in the same manner as the identical circuit in the crystal oscillator.

Provision was made in the 20- and 40-meter bands for individual doublet antennas. Both tanks have internal variable link coils terminating in Alsimag 196 bushings arranged along the top of the transmitter cabinet. Two half-wave doublets cut to proper length for each band, with 75-foot lengths of Bassett concentric cable permanently attached, are included ready for connection to their respective terminals. The 600-meter output is designed to feed a Marconi antenna pick-

up coil, L4, coupling between this coil and L3 being varied by loosening two wing nuts and sliding the antenna coil mounting. A Triplett Model 341 r.f. meter on the upper panel indicates antenna resonance, the external thermocouple being located in the antenna lead at the rear of the chassis.

All essential circuits are wired to the upper panel which carries the five Triplett meters. They indicate the 807 plate current, filament voltage, antenna current on the 600-meter band, the ZB-120 filament voltage and plate current. The filament voltage for the 807 and ZB-120 is controlled by the rheostats, R15-R16, located on the power chassis, a red line on each voltmeter scale indicating the proper operating voltage. No series resistance was required in conjunction with the 6.3-volt a.f. tubes since they are paired up and wired in series-parallel across the 12-volt battery supply. This reduces battery drain. The 2-inch meter on the bottom panel indicates the total current con-

#### AEROVOX

C1—0.1 mfd. paper  
C2—10 mfd., 50 v. electrolytic  
C3—4 mfd., 450 v. electrolytic  
C4—4 mfd., 450 v. electrolytic  
C5—10 mfd., 50 v. electrolytic  
C6—10 mfd., 50 v. electrolytic  
C7—25 mfd., 250 v. electrolytic  
C8—8.8 mfd., 450 v. electrolytic  
C9—4 mfd., 600 v. oil filled  
C10—2 mfd., 2000 v. oil filled  
C11—25 mfd., 250 v. electrolytic

#### IRC

R1—2 megs, 1 watt

R2—3,000 ohms, 1 watt  
R3—100,000 ohms, 1 watt  
R4—300,000 ohms, 1 watt  
R5—20,000 ohms, 1 watt  
R6—500,000-ohm gain control  
R7—2000 ohms, 1 watt  
R8—1000 ohms, 1 watt

#### KENYON

T1—Type T58 transformer  
T2—Type T255 transformer  
T3—Type T459 transformer

#### OHMITE

R9—200 ohms, 20 watts

R10—30,000 ohms, 200 watts  
R11—30,000 ohms, 200 watts  
R12—2500 ohms, 200 watts  
R13—10,000 ohms, 200 watts  
R14—25 ohms, 10 watts  
R15—Model H rheostat, 2 ohms, 25 watts  
R16—Model J rheostat, 2 ohms, 50 watts

#### PAR-METAL

1—15213 chassis  
1—3604 panel

#### RCA

1—type 6J7 tube  
3—type 6C5 tubes  
2—type 6L6 tubes

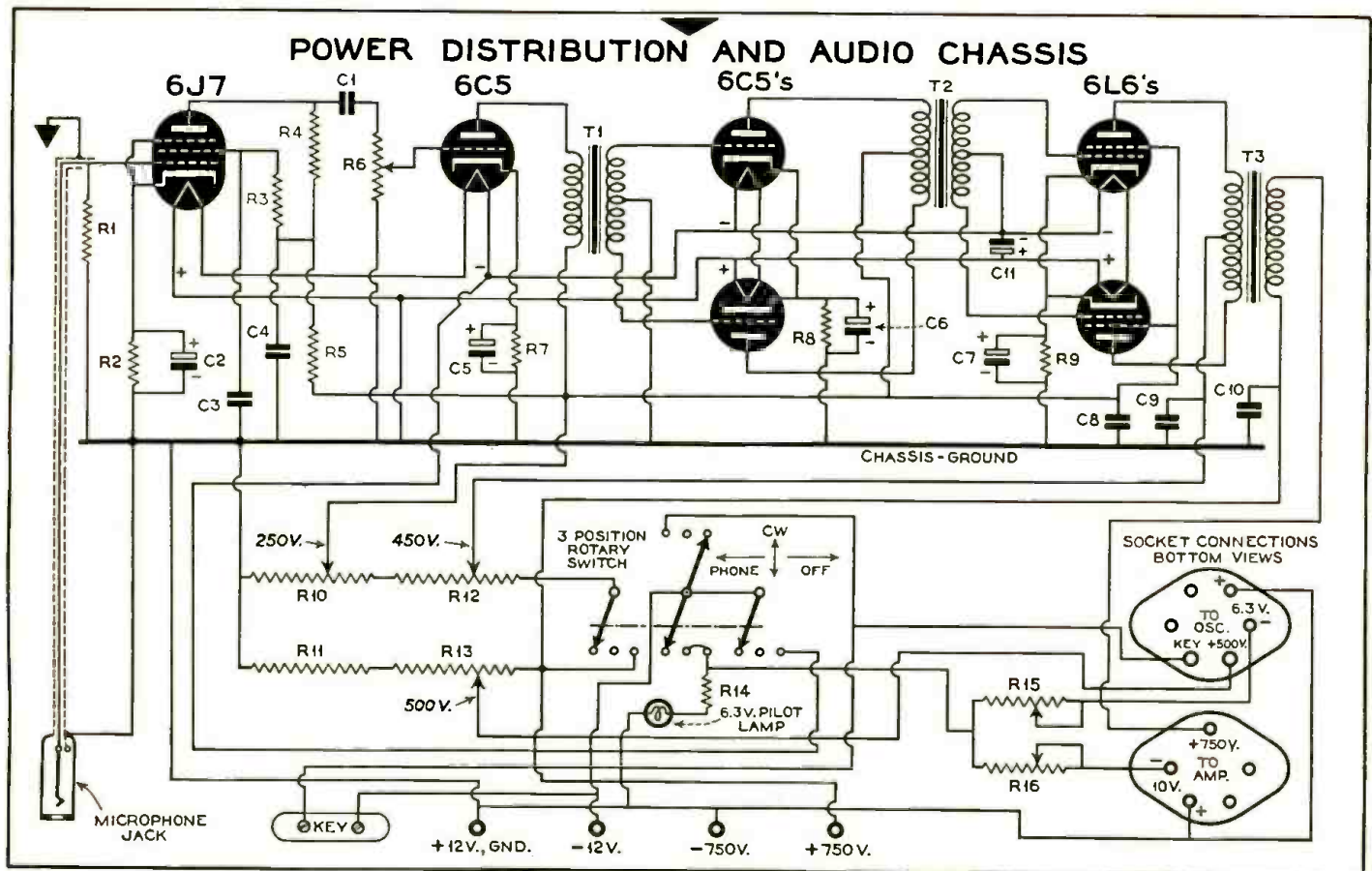


Fig. 1. Schematic diagram of the power distribution and audio chassis. Note manner in which bias is obtained for the 6L6 modulators.

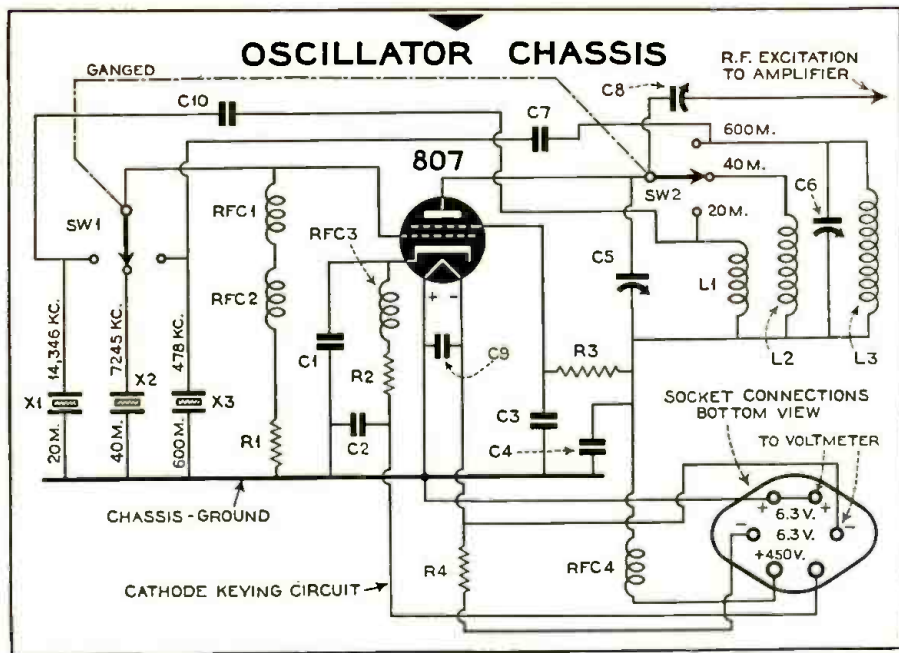


Fig. 2. Schematic diagram of the crystal-controlled oscillator. Note band-switching system for the three frequencies.

**AEROVOX**

- C1—250 mmfd., 1000 v. mica
- C2—25 mfd., 600 v. paper
- C3—25 mfd., 600 v. paper
- C4—.01 mfd., 1250 v. mica
- C9—.25 mfd., 600 v. paper

**BLILEY**

- X1—Type VP4 crystal, 20 meters
- X2—Type VP4 crystal, 40 meters
- X3—Type VP4 crystal, 600 meters

**CARDWELL**

- C5—Type MT50GS variable, 50 mmfd.
- C6—Type MT150GS variable, 150 mmfd.
- C7—8 mmfd. midget padder (feedback)
- C8—Type ZR25AS variable (coupling) 25 mmfd.
- C10—Feedback condenser, 2 mmfd.

**COTO**

- L1—20-meter inductor

- L2—40-meter inductor
- L3—600-meter inductor
- RFC1—18 mh. r.f. choke
- RFC2—2.5 mh. r.f. choke
- RFC3—2.5 mh. r.f. choke
- RFC4—2.5 mh. r.f. choke

**OHMITE**

- R1—50,000 ohms, 20 watts
- R2—750 ohms, 10 watts
- R3—10,000 ohms, 20 watts
- R4—5 ohms, 25 watts
- SW1—Crystal selector switch
- SW2—Inductor selector switch

**PAR-METAL**

- 1—15213 chassis
- 1—3604 panel

**RCA**

- 1—type 807 tube

sumed by the modulator while also serving as a check on percentage of modulation.

**Outputs**

With a total input of 250 ma. at 750

volts—the maximum output of the Pioneer dynamotor—this transmitter is capable of a measured carrier output of 60 watts fully modulated. The filament-heating current consumed when all tubes are energized for phone operation is 4.1

amperes, while the dynamotor draws a total of 28 amperes under these conditions. Due to a saving of 100 ma. when the modulator is cut for c.w. operation, the output may be raised to 80 watts by tightening the link coupling to the feeder.

In view of Eurich's reports on island conditions, every precaution was taken in design, construction and choice of parts to preclude the possibility of breakdown. All resistors and fixed condensers were chosen to operate well below their ratings. Insulating materials were selected with great care. Mounting post insulators, bushings, terminals and inductor mountings are all made of Alsmag 196. The Cardwell variable condensers have Mycalex supports. Power circuits are carried to each successive deck by means of plugs and sockets, allowing each chassis to be pulled for repairs or check-up. All of the flexible wiring and cables have a specially treated, lacquer-coated wire since ordinary fabric-covered wire is often a source of trouble when exposed to moisture. Spare parts have been included to take care of any possible breakdown of the equipment.

**The Receiver**

As the Sargent model 11-MF receiver aboard the *Yankee* had proved highly satisfactory under adverse climatic conditions, a similar set was obtained for PITC. The choice was further justified by the fact that Andrew Young had the opportunity of operating the receiver during the *Yankee's* stay at Pitcairn. Accordingly, the model 11-MF battery-operated receiver, covering all frequencies from 30 mc. to 100 kc. was procured. This receiver, with a total of four tubes, has a stage of r.f. and adequate bandsread for all com-  
(Continued on page 98)

Fig. 3. Schematic diagram of the final amplifier using a ZB-120. Connections for three separate antennas are provided.

**AEROVOX**

- C5—500 mmfd., 2500 v. mica
- C6—.01 mfd., 1250 v. mica

**AMPEREX**

- 1—type ZB-120 tube

**CARDWELL**

- C1—Type XG50KD split stator, 50 mmfd.
- C2—Type XP325KD split stator, 325 mmfd.
- C3—Type XT440PS single section, 440 mmfd.
- C4—Type NA14NS neutralizing, 5-14 mmfd.

**COTO**

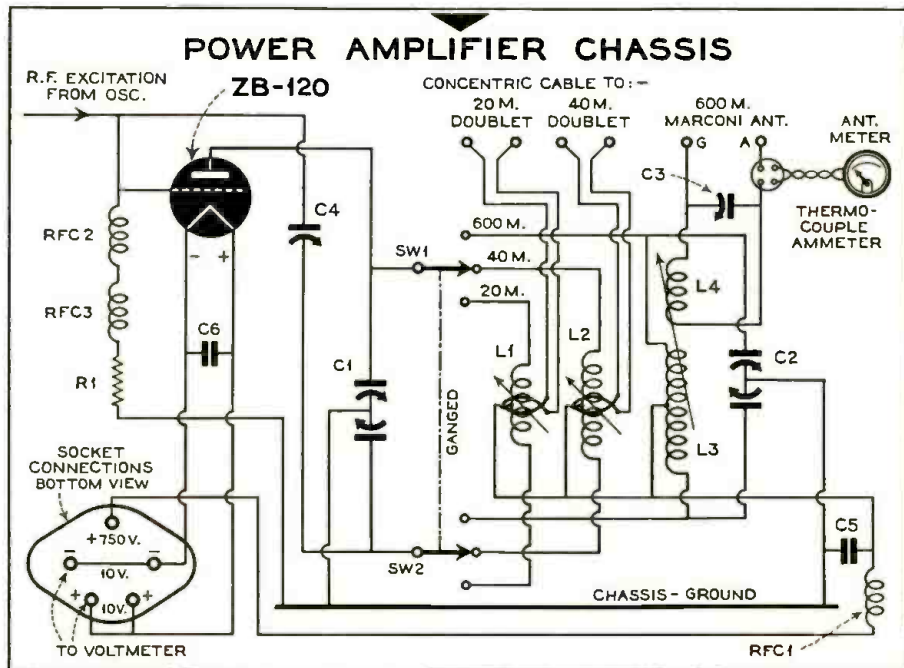
- L1—Type 20BTVL tank inductor
- L2—Type 40BTVL tank inductor
- L3—Special tank inductor, 600 meters
- L4—Special antenna inductor, 600 meters
- RFC1—Type CI12 r.f. choke, 2.2 mh.
- RFC2—18 mh. r.f. choke
- RFC3—Type CI11 r.f. choke, 2.5 mh.

**OHMITE**

- R1—2500 ohms, 20 watts
- SW1—Inductor bandswitch
- SW2—Inductor bandswitch

**PAR-METAL**

- 1—15213 chassis
- 1—3606 panel
- 1—MP-53 meter panel
- 1—SC3513 cabinet (for entire transmitter)





6.010 CJCX 49.92	Eastern Broadcasters. Ltd., Radio Bldg., Sydney, N. S., Canada. Irregular.	5.905 TILS 50.80	P.O. Box No. 3, San Jose, Costa Rica, C.A. S: none. O: Washington and Lee Swing. C: Adios Mi Chapparrita. Weekdays 12-3 p.m.; 6-11 p.m. Sundays irregular.	5.755 YV2RA 52.13	San Cristobal, Venezuela. English occasional and at closing. S: 6 strokes song. O-C: March. El Capitan. Weekdays 11:30 a.m.-12:30 p.m.; 5:30-9 p.m. Sun. 5:30-10 p.m.
6.010 DLR2A 49.92	Prague, Czechoslovakia (see 21.450 mc. Irregular (see 15.230-11.840-15.230 mc.)	5.900 ZNB 50.84	Government Engineer, Mafeking, South Africa. Mon. to Fri. 1-2:30 p.m. Sun. 1:30-2:30 p.m.	5.725 HCIPM 52.40	P.O. Box 664, Quito, Ecuador, S.A. O-C: La Marcha de Aida. Saturdays 9-11 p.m.
6.007 ZRM 49.94	Roberts Heights, South Africa (see ZRJ 6.097.5 mc.) Weekdays 10 a.m.-4 p.m., Sat. to 4:45 p.m., Sundays 10:30 a.m.-12 noon. 12:15-3:15 p.m.	5.900 HJ4ABD 50.85	Medellin, Colombia, S.A. (see 6.138-5.780 mc.) Weekdays 10 a.m.-2 p.m.; 4-11 p.m. Sun. 11 a.m.-3 p.m.; 7-11 p.m. Veri slow.	5.713 TGS 52.51	Casa de Presidencial, Guatemala City, Guatemala, C.A. Sun., Wed., Fri. 6-8 p.m. No. I.R.C. necessary.
6.007 Radio 49.94 Burma	Burma Independent Wireless, Rangoon, Burma C: God Save the King. Daily 9:10-9:40 a.m.	5.885 H19B 50.98	P.O. Box 95, Santiago de los Caballeros, Dom. Rep., W.I. O-C: Piano Solo—Vale Evocation. Weekdays 7:25-8:40 a.m.; 11:55 a.m.-2:10 p.m.; 4:55-7:40 p.m. Sundays 11:40 a.m.-2:40 p.m.	5.146 PMY 58.30	Bandoeng Radio Society, Nilmy Bldg., Bandoeng, Java, N.E.I. O: March. Le Rene Passe. C: On chimes. Good Night and National Anthem. Sun. 6:30 p.m.-1:30 a.m. 4-10:30 a.m. Mon. to Fri. 5:30 p.m.-2:30 a.m. 4-10:30 a.m. Sat. 5:30 p.m.-2 a.m. 4-11:30 a.m.
6.005 HP5K 49.96	P.O. Box 33, Colon, Panama, C.A. S: 3 chimes, ca. 15 m. O-C: Merry Widow Waltz. Daily exc. Sun. 7-9 a.m.; 11:30 a.m.-1 p.m.; 6-11 p.m. Sun. 10 a.m.-12 a.m.	5.880 YV3RA 51.02	Barquisimeto, Venezuela (see YV3RE. 9.565 mc.) Daily 11:30 a.m.-12:30 p.m.; 5:20-9:30 p.m.	4.900 HJ3ABH 61.22	Apartado 565, Bogota, Colombia, S. A. I: 3 chime notes. Weekdays 11:30 a.m.-2 p.m. 6-11 p.m. Sunday 12-2 p.m.; 4-11 p.m.
6.005 CFCX 49.96	P.O. Box 1690, Montreal, Quebec, Canada. Weekdays 7:44 a.m.-1 a.m. Sundays 9 a.m.-11:15 p.m.	5.875 HRN 51.11	Tecucigalpa, Honduras, C.A. C: Good Night Melody (Ted Lewis) Daily 7-10 p.m. Veri—100 U. S. cash. Veri slow.	4.841 HJ3ABD 61.97	Apartado 509, Bogota, Colombia, O: Pari Ti Rio Rita. C: Rio Rita and National Anthem. Weekdays 9 a.m.-2 p.m., 8 p.m.-12 a.m., Tues. and Thurs. to 3 p.m. Wed. and Fri. begin 5:30 p.m.
6.005 VE9DN 49.96	Montreal, Quebec, Canada (see CFCX. 6.005 mc.) Sat. 11 p.m.-12 a.m. Fall, winter and spring.	5.865 H11J 51.15	Apartado 204, San Pedro de Macoris, Dom. Rep., W.I. O-C: Waltz, Sweet Remembrance. English very seldom. S: none. Daily 11:40 a.m.-1:40 p.m.; 5:40-9:40 p.m.	4.820 HJ7ABB 62.24	Santander Broadcasting, Bucaramanga, Colombia, S. A. 6-11 p.m.
6.000 CXA2 50.00	Rio Negro, Montevideo, Uruguay, S.A. O: Voluntary Trumpeter. C: Good Night Melody. Daily 10:30 a.m.-10:30 p.m.	5.850 YV1RB 51.28	P.O. Box 37, Maracaibo, Venezuela, S.A. English and Spanish. O-C: Strike Up The Band. Daily exc. Sun. 10:45 a.m.-12:45 p.m.; 4:45-9:45 p.m. Sun. 8:45 a.m.-9:45 p.m.; Mon., Wed., Fri. 5:45-8:15 a.m. Tues., Thurs., Sat. 5:45-9:45 a.m.	4.810 YDE2 62.37	Solo, Java, N.E.I. (see 15.150 mc.) Daily 5:30-11 a.m.; 5:45-6:45 p.m.; 10:30 p.m.-2 a.m.
6.000 XEBT 50.00	P.O. Box 79-44 Mexico, D.F. I: 3 blasts on cuckoo horn. Siren near closing. O: Las Mananitas. C: Liebertraum. Daily 10 a.m.-12:15 a.m.	5.830 TIGPH 51.46	Apartado 800, San Jose, Costa Rica, C.A. C: Good Night Melody (Ted Lewis). Weekdays 8-11 p.m.	4.790 HJ2ABC 62.63	Sr. Pomdillo Sanchez, Prod., Cusuta, Colombia, S.A. Daily 11 a.m.-12 noon, 6:30-9 p.m.
6.000 FIQA 50.00	Director of Posts and Telegraphs Tananarive, Madagascar. Daily 12:30-12:45 a.m.; 3:30-4:30 a.m.; 10-11 a.m.	5.813 TIGPH-2 51.61	Apartado 800, San Jose, Costa Rica, C.A. C: Good Night Melody. Daily 7-11 p.m.	4.780 HJ1ABB 62.76	Apartado 715 Barranquilla, Colombia, S.A. I: 3 chimes. S: 1 chime between advertisements. C: La Golondrina 7-9 a.m. 11-1 p.m., 5:30-10 p.m.
6.000 RV59 50.00	Moscow, U.S.S.R. (see RKI. 15.040 mc.) No I.R.C. required.	5.800 YV5RC 51.72	P.O. Box 2009, Caracas, Venezuela, S.A. I: 4 chimes. O-C: Official IBB March. Bugles, whistles before closing. Sundays 8:30-11:30 a.m., 3:30-9:30 p.m. Weekdays 7-8 a.m., 10:30 a.m.-1:30 p.m., 3:45-10 p.m. (off Mondays 9:45 p.m.)	4.740 HJ6ABC 63.29	Ibague, Colombia, S.A. Daily 6-11 p.m.
5.977 Radio 50.19 Renascenca	Rua Capelo, 5, Lisbon, Portugal, OC: Our Lady of Fatima. I: none. Daily 2:30-4:30 p.m. Sunday and Thursday 6-7 a.m.	5.800 ZEC 51.72	P.O. Box 792, Salisbury, Rhodesia, South Africa. Sun., 3-5 a.m.; Tues. and Fri. 1:15-3:15 p.m.	4.660 HJ2ABJ 64.38	Santa Marta, Colombia, S.A. Daily 11:30 a.m.-2 p.m.; 6:30-10:30 p.m.
5.970 DAX4P 50.25	Cuzco 25, Huancayo, Peru, S. A. Daily 12-1 p.m., 9 p.m.-12:30 a.m.	5.780 DAX4D 51.90	All American Cables, Ltd., Castilla 2336, Lima, Peru, S.A. Sirens on and off Morse code. No signals. English and Spanish. Wed., Sat. 9-11:30 p.m.	4.600 HC2ET 65.22	P.O. Box 824, Guayaquil, Ecuador, S.A. I: 12 chimes. Wed. and Sat. 8:15-10:45 p.m. Veri—50 U. S. postage.
5.969 HVJ 50.26	Vatican City (see 15.121 mc.) 2-2:15 p.m. Sun. 5-5:30 a.m.	5.780 HJ4ABD 51.90	Medellin, Colombia, S.A. (see 6.138-5.900 mc.) Weekdays 10 a.m.-2 p.m.; 4-11 p.m. Sun. 11 a.m.-3 p.m.; 7-11 p.m. Veri slow.	4.420 ZMBJ 67.87	Wellington, N. Z. (see 18.600 mc.)
5.955 H1N 50.35	Minister of Education Nacional, Bogota, Colombia, Daily 11 a.m.-2 p.m.; 5-10:30 p.m.	5.758 YNOP 52.10	Radio Barer, Managua, Nicaragua, C.A. Weekdays 8:30-10:30 p.m. Veri—50 U. S. Postage.	4.273 RV15 70.21	Radio Committee, Khabarovsk, U.S.S.R. English. 2 a.m., EST and at announcements. Daily exc. 6th 12-18-24-30th 3 p.m.-8 a.m. On 6-12-18-24-30th 7:10 p.m.-8 a.m. English programs start at 2 a.m. No I.R.C. necessary.
5.940 TG2X 50.51	De la Policia Nacional, Guatemala City, Guatemala, C.A. Daily 4-6 p.m. Mon., Thurs., Sat. 10-11:30 p.m. Sundays 1-2 p.m. No I.R.C. required.			4.107 HC1B-2 73.05	Quito, Ecuador, S.A. (see 8.831 mc.)
5.930 PJCI 50.59	Curacaoische Radio Vereeniging, Willemstad, Curacao, N.W.I. O: Electrical songs, 4 strokes and repeat 5 mins. O-C: National anthem. Weekdays 6:36-8:36 p.m. Sun. 10:36 a.m.-12:36 p.m.			4.002 CT2AJ 75.00	Ponta Delgada, Island of St. Michael, Azores. Wed. and Sat., 5-7 p.m.
5.930 YV1RL 50.59	P.O. 247, Maracaibo, Venezuela, S.A. Weekdays 11 a.m.-1 p.m.; 4:30-9:30 p.m. Sun. 8:30 a.m.-2:30 p.m.			3.040 YDA 98.68	Batavia, Java, N.E.I. (see 15.150 mc.) Weekdays 5:30-10 a.m. (Sat. 11:30 a.m.) 6-7:30 p.m., 10:30 p.m.-2 a.m. Sun. 5:30-10 a.m., 7:30 p.m.-2 a.m.
5.910 YV4RH 50.76	Valencia, Venezuela, S.A. Daily 8-11:30 p.m.				
5.910 HH2B 50.76	Port-au-Prince, Haiti, W.I. (see 11.570 mc.) Daily 7-10 p.m.				

## "PITC" EQUIPMENT

(Continued from page 75)

munication work. A p-m speaker is built into the cabinet and jacks are provided for employing headphones in either the first or second a.f. stages. The tubes, of the heater type, are energized from a 6-volt section of the storage-battery supply, the required plate supply of 40 ma. at 200 volts being derived from a Pioneer Genemotor. The receiver and Genemotor add another 5 amperes to the storage battery load.

Upon the completion of the transmitter it was subjected to rigorous tests in an endeavor to detect any defects that might exist. It was then put on the air under actual operating conditions at WIBES using a frequency of 14,165 kc. and several stations contacted. Using the same antenna signal reports averaged

only two R's under the kilowatt rig on 14,166 kc. normally used at WIBES. Under ideal radio conditions such as exist at Pitcairn Island, and avoiding the QRM of the American phone band, PITC should have no difficulty in being heard in every quarter of the world.

The services of the Rocke International Export Corporation were enlisted, and through their cooperation the shipment of the seven cases of equipment left New York on January 8th from Pier 60 on the Panama-Pacific liner *Pennsylvania* to connect with the New Zealand Shipping Company's *Arangitiki*, which sailed December 1st from Cristobal for Auckland. If conditions permit a stop at Pitcairn on this voyage, the equipment should be in Andrew Young's hands by the first week in February.

The author desires to extend his thanks to the companies listed, for their cooperation and donations of equipment which brought the original idea to a successful conclusion: Aerovox Corp., American Lava Corp., Amperex Electronic Products, Bassett Research Corp.,

Bliley Electric Co., Allen D. Cardwell Mfg. Corp., Coto-Coil Co., Inc., Eby Manufacturing Co., Kenyon Transformer Co., Ohmite Manufacturing Co., Par-Metal Products Corp., Parris-Dunn Corp., Pioneer Genemotor Corp., RCA Radiotron Corp., E. M. Sargent Co., Shure Brothers, Triplett Electrical Instrument Co., Willard Storage Battery Co., Rocke International Export Corp., Panama-Pacific S. S. Co., New Zealand Shipping Co.

### Last Minute Flash!

Shipment was held up for a month so that the author could accompany the equipment to the island. He will install the station and instruct Andrew Young in its operation. An ample supply of QSL cards with the amateur call VD6-A donated by the Kenyon Transformer Company will be taken to the island by the author who will attempt to contact American amateurs on either 14,346 or 7245 kc. Who will be the first to receive a QSL card from this new radio outpost?