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Report on W/T Section Sparrow Force.

The Report by Brigade Signals Officer Sparrow Force, sets out the narration in respect to the building of W/T set with which Australia was contacted. June 42

MOL/DW.

DEPARTMENT OF THE ARMY

SECRET

MINUTE PAPER

3876.

SUBJECT: REPORT ON SPECIAL W/T SECTION SPARROW FORCE

C.G.S.

--- Herewith is report by Brigade Signals Officer of Sparrow Force.

The report sets out the narration in respect to the building of a W/T Set with which Australia was contacted.

Jun. 42

W.C. Sullivan
Brig.,
Commanding Sparrow Force.

DM1. Lett. GIB 23/6.

D.M.O.P. D

no. 1. H.A.

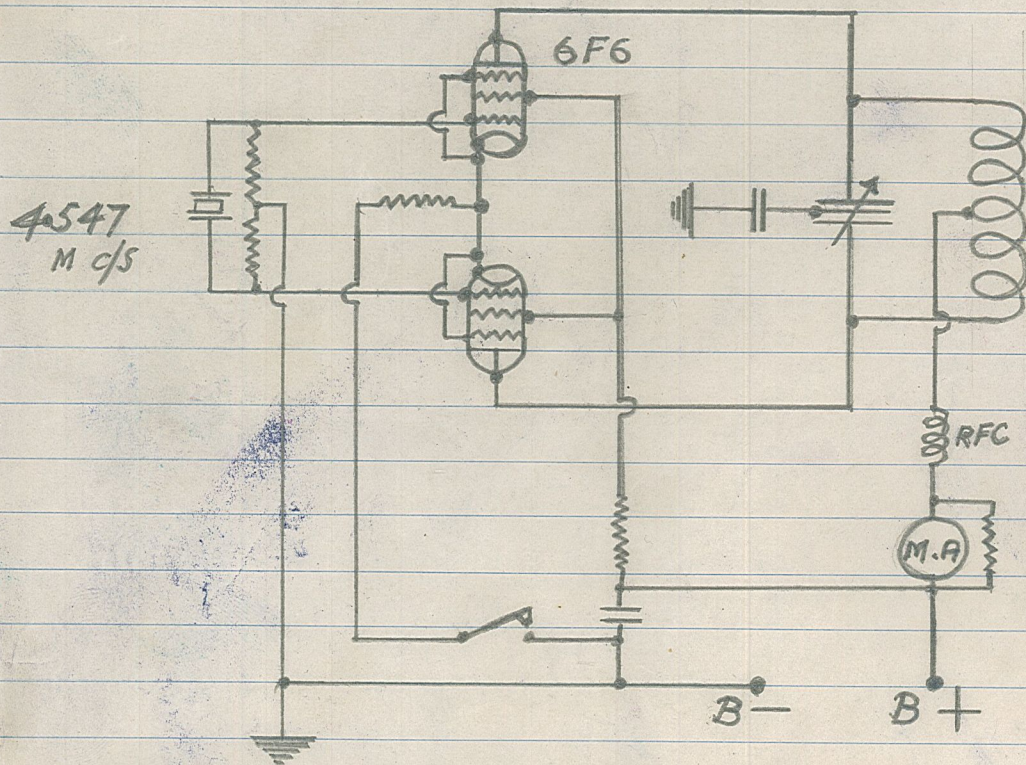
6B

CIRCUITS

FIG 1

CRYSTAL OSCILLATOR

WITH 6F6 VALVES



1. CRYSTAL REPLACED BY TUNED CIRCUIT AND USED AS TP-TG OSC.
2. TUNED GRID CIRCUIT LINKED TO W/T SET 101 AND USED AS AMPLIFIER COUPLED TO $\frac{\lambda}{2}$ ZEPP AERIAL.

FIG. 2.

AMPLIFIER USING
4307 A VALVES

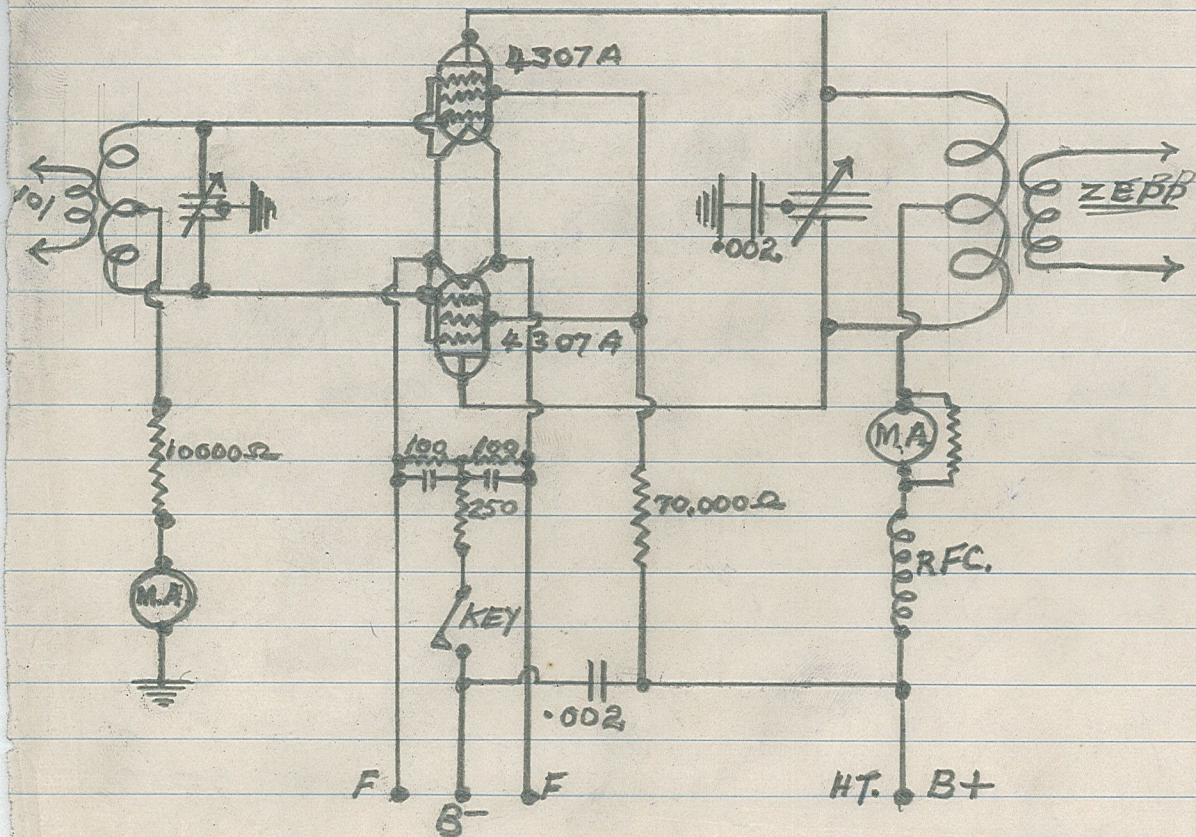
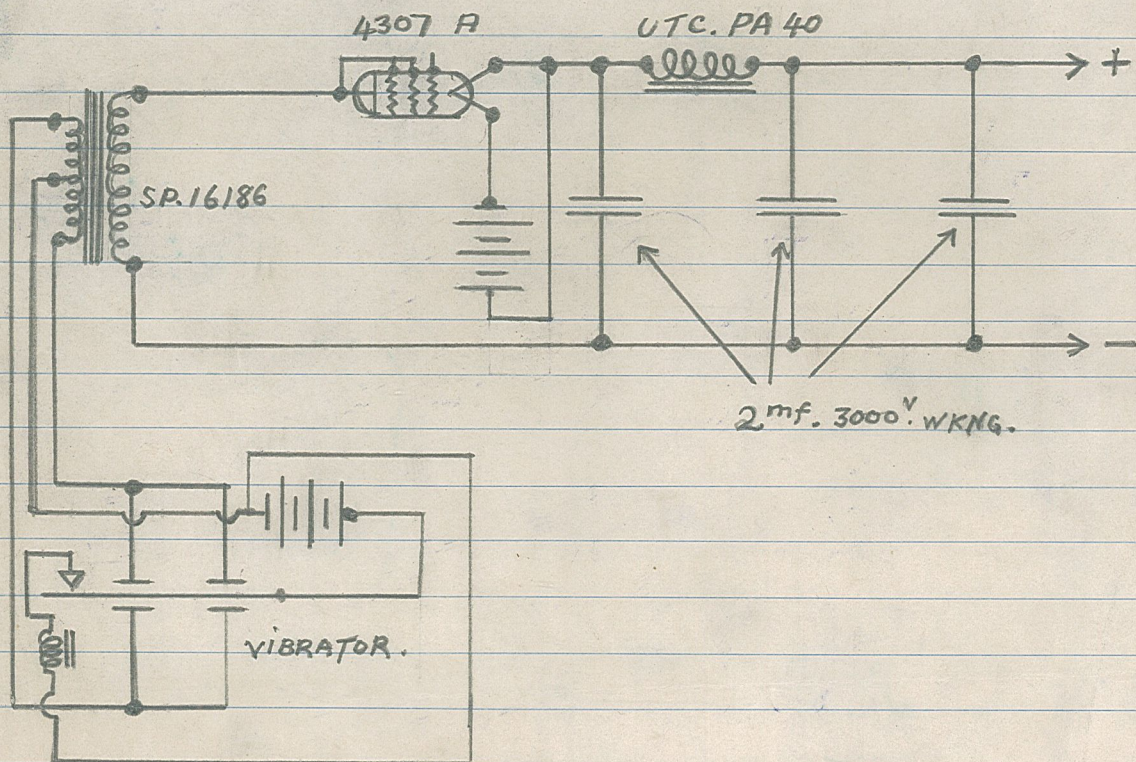


FIG. 3.

POWER SUPPLY CIRCUIT
IN USE.



REPORT BY CAPT. G.E. PARKER

BDE. SIG. OFFICER
SPARROW FORCE.

Report on activities of Special W/T Section

2 Mar 42 - 19 Apr 42.

The original party to leave ATAMBOEA on 2 Mar 42 were -

NX34821	Capt G.E. Parker	8 Div. Sigs.
QX18071	Cpl. J. Sargeant	2/1 Fort Sigs.
NX38634	L/cpl J. Donovan	"
	Sigman D Bailey	"
	" L. Shadlow	"
	" E. Wilson	"
VX32491	Pte. F. Dennis	2/40 Bn.
VX26937	Sigman E. Liversidge	8 Div Sigs.
VX22091	" W. Larkin	"

The transmitter and receivers had been smashed the crystals from the transmitter were taken by two of the party.

On 4 Mar. 42 the party was contacted by Capt. B. Callinan 2 Ind Coy and we joined that officers party at LAHOEROES and proceeded to CAILACO.

The Ind Coy had recovered a W/T set 109 from the forward area and we endeavoured to contact YCD DARWIN with this set on the old YC frequency. The transmitter of this unit was too low powered and no success was had.

L/cpl Donovan, Sigman Liversidge and Pte Dennis were instructed by me to proceed to ATAMBOEA to salvage as much wireless equipment as had been left. This party departed from CAILACO on 17 Mar. 42.

Further equipment had been salvaged comprising a few tools, spare wireless valves and in addition a receiver had been obtained from a Portugese together with 2 accumulators. This receiver was not in working order.

All equipment was transferred to MAROBO on 18 Mar. 42.

Sigman Bailey, Wilson and Shadlow, were detached from the party and attached to Sig. Sect. of the Ind. Coy and TX4745 Sigman J. Loveless, VX50708 Sigman K. Richards were attached to me from Ind. Coy. Both these men are technicians. Loveless had in civil life been with Station 7ZL Hobart.

An oscillator was constructed using a crystal from the ATAMBOEA transmitter and 2 6F6 valves from the Portugese receiver. The vibrator of the receiver was used as a power supply. The circuit of this oscillator is shown in Fig. 1.

On 28 Mar. 42 Donovan returned from ATAMBOEA with odd parts of wireless equipment. Very little had been left after the natives had been given carte blanche.

Three alternatives were open to us at this stage. 1. To try and contact with the small oscillator already constructed. 2. To build an amplifier for this using 4307A valves in push pull. 3. To build this amplifier and use it on the W/T set 109. (This latter had been made available to us from Ind. Coy.)

On 1 Apr. 42 the party moved to MAPE and the school house (rice store) was given to us to continue our work.

On 3 Apr. 42 work was started on the amplifier using the spare

4307A valves for the 109 set.

4 Apr. 42 Sigman Liversidge and Pte Dennis returned from their A trip but had not recovered any further wireless equipment.

The amplifier was completed on 12 Apr 42. and the vibrator of the 109 set was used as the power supply for this. The tests however showed that this was not sufficient and the vibrator of the receiver was put into operation with slightly better results.

In the meantime B Pls of 2 Ind. Coy had recovered a W/D set 101, complete, from the forward area and had been listening to Darwin. This set was passed over to us and Cpl. J. Sevantie VX4546 was attached to us from 2 Ind. Coy.

On the 13 Apr 42 we also listened to and identified DARWIN.

On 14 Apr 42 we tried DARWIN with the 101 but no results.

The original PORTE receiver vibrator broke down on 16 Apr and we pulled the 109 vibrator to pieces and made up a vibrator by using the transformer and the vibrator (spare) of a 101 set. We had 1 rectifier tube type 80 but this could not handle the voltage so we tried a 4307 A valve as a rectifier; this worked O.K.

On 17 Apr 42 we endeavoured to contact DARWIN by using the 101 set as a drive for the small oscillator now converted to an amplifier using the 6F6 valves. Changed this for the amplifier with 4307A valves and changed the aerial to a ZEPP on a bearing of 110° mag.

On 19 Apr. we contacted DARWIN calling LOA - LOF - LOG - LOW from YCF. LOF replied to us and by using the code word of FIXED DEFENCES managed to get the first message through. Sigman Loveless has throughout shown the greatest initiative in this work and his efforts undoubtedly led to our success.

(sgd) G. PARKER (Capt.
13 May 42.

CONTINUATION OF REPORT ON ACTIVITIES OF W/T SECTION.

On 24 Apr. the following men reported to me for guard duties.

NX50064 Sgt. R. Pepper 2/1 Fort Eng.
VX54809 Cpl. S. Roberts 2/40 Bn.
VX53831 Pte. Stevens "
TX2790 " D.W. Lee. "

All spare equipment was transferred to NOVA LUSA on 29 Apr. 42 and later transferred to VILA FILOMENA DE CAMARA. On 2 May we received from the forward area an A.W.A. transmitter AS9 2J2448 with generator A3080.

This unit has two crystal frequencies 6000 and 6590 K c/s. A message was sent to DARWIN regarding this. We have tested the second frequency to YED and received a strength report.

Our total equipment comprises the A.W.A. transmitter a W/T set 101 Complete a 109 receiver with receiver vibrator only 2 - 150A accumulators 3 - 130A 1 - 100A 2 - 25A. We have asked for tools as our present kit is inadequate. 1 - 124 Zoon charger. Amplifier as previously mentioned.

It is impossible without actually being in TIMOR to visualise the entire lack of useful tools etc, and also the primitiveness of all machines such as there are.

Every assistance must be given to us in order to maintain the W/T link as it is impossible to use any local resources.

(Sgd) G. PARKER. CAPT.

A FEW NOTES ON BATTERIES AND CHARGING.

The Ind. Coy. had managed to salvage a 6 v 100 w charger. This was delivered to us on 2 Apr. 42 and there was still sufficient petrol of give it a run. It was found however that the generator was burnt out and batteries had to be sent from MAPE to BOBBNARA to be charged.

The method of charging was by means of a system of driving wheels down to a 6v generator the first wheel being turned by natives the others belt driven from this main drive. This type of charger has been called a boong charger for easy reference.

Signor Tenenti Lopes sent a 6v generator to us and also a large driving wheel and we endeavoured to make up our own boong charger. In the meantime the charger motor was put into service belt driving the 6v generator. A charging rate of 10A was obtained. As petrol ran out we tried kerosene and then Dieseline in this motor with some success.

On 6 May W.O.II G. Willersdorf VX28827 75 L.A.D. and Pte. J. Kingshot TX2609 2/40 Bn. were sent to BOBBNARA to construct a duplicate boong charger and this was delivered to us on 17 May 42.

In the meantime (8 May 42) a 12 v 200 w charger was delivered from AUSTRALIA.

Our battery worries are not yet over but it seems that they are well under control.

(Sgd) G. PARKER. Capt.

COMPLETE NOMINAL ROLL OF PERSONNEL AND UNITS.

NX34821	Capt. G.E. PARKER	8 Div. Sigs.	O.C.
NX50064	Sgt. R. PEPPER	2/1 Fort Engs.	Cook.
QX18071	Cpl. J. SERGEANT	2/1 " Sigs.	Operator.
NX38634	L/Cpl J. DONOVAN	"	"
VX26937	Sigman E. LIVERSIDGE	8 Div Sigs.	"
VX54546	Cpl. J. SEVANTIE	2 Ind. Coy	"
VX22091	Sigman W. LARKIN	8 Div. Sigs.	Guard.
	" L. SHADLOW	2/1 Fort Sigs.	"
VX54809	Cpl. S. ROBERTS	2/40 Bn.	"
VX53831	Pte. F. STEVENS	"	"
TX2790	" D.W. LEE	"	"
TX4745	Sigman. J. LOVELESS	2 Ind. Coy.	Tech.
VX50708	" R. RICHARDS	"	"
NX39841	Cpl. R. PADLEY	A.S.C.	Guard.
VX28827	W.O.II. G. WILLERSDORF	75 L.A.D.	Battery
TX2609	Pte. J. KINGSHOT	2/40 Bn.	Charging.

(Sgd.) G. E. PARKER Capt.

COMPLETE NOMINAL ROLL OF PERSONNEL AND UNITS

Capl. G. E. PARKER	8 Div. Sigs.	O.C.	TX34621
Sgt. R. PAPER	2/1 Fort Hqs.	Cook	TX30064
Op1. J. SERGEANT	" Sigs.	Operator	TX18071
Op1. J. DOHOVA	"	"	TX38634
Sigman E. LIVERS	8 Div Sigs.	"	VX33837
Op1. J. SEVANTIE	2 Ind. Coy	"	VX54546
Sigman W. LARSEN	8 Div. Sigs.	Guard	VX33031
L. SHADLOW	2/1 Fort Sigs.	"	VX54309
Op1. S. ROBERTS	2/40 Bn.	"	VX33831
Pte. R. STEVENS	"	"	TX3730
D.W. LEE	"	"	TX1743
Sigman J. LOVELL	2 Ind. Coy.	Tech.	VX50708
R. RICHARDS	"	"	TX33941
Op1. R. PADLEY	A.S.C.	Guard	VX33837
W.O.II. G. WILKESDORF	751.A.D.	Battery	TX3609
Pte. J. KINGSHOT	2/40 Bn.	Charging	

(Sgt.) G. E. PARKER Capl.

WAR OF 1939-45

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