Wireless for the Warrior - Volume 4

Supplement, Chap. 97 - 1



`D cell' receiver Country of origin: USA/Germany W

DATA SUMMARY

Organisation: Central Intelligence Agency. (Germany W) Design/Manufacturer: Unknown USA production. Year of Introduction: Estimated late 1960s - mid1970s. Purpose: Agents.

Receiver:

Circuit features: Crystal controlled single conversion superhet with ceramic IF ladder filter. **Frequency coverage:** Estimated 3-4MHz. Fixed crystal controlled frequency.

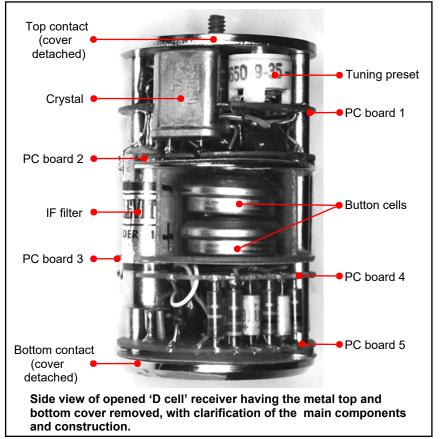
Intermediate Frequency: Believed 455kHz.

Power Supply: Two Mallory mercury button cells. (Probably type 313)

Size (cm): Diameter 3.3, Length 6.2.

REMARKS

The 'D cell' receiver was a transistorised single frequency short wave receiver disguised as a D cell, hence this provisional name as the original type number could not be found. (In the user instructions the receiver was named 'Kleingerät', but this was a much too general description.) The receiver was intended for listening to shortwave (number) stations by agents operating in East Germany. The unit was self contained, powered by two internally fitted button cells which could be replaced if they ran out. When required for use the cardboard cover had to be lifted from the unit revealing the main assembly with a spooled up aerial wire. There was a miniature on/off switch and a small thumb wheel for volume control. After unwinding the aerial wire the receiver was ready for use. An earphone was not required as a subminiature loudspeaker was incorporated in the receiver assembly. In case the volume was not sufficient, a small piece of plastic tube was issued which acted as an acoustic transducer when connected to the loudspeaker and inserted in an ear.



Construction.

The receiver was build in the shape of a D cell using five printed circuit boards, held together by two series of spacers. The top and bottom of the assembly were covered by metal shells. The centre part was open and gave access to the on-off switch, volume control and the replaceable button cells. The components were not only placed on the boards, but also in the space between the boards.

Nothing is known of the designer, builder or contractor. Professional standard parts were used, for example a miniature Clevite ceramic ladder IF filter. As most Clevite filters were designed to operate on 455kHz, and the local oscillator crystal on 3807kHz, it is believed that the unit on the photos received on a frequency of 3807 - 455 =3352kHz.

References:

- Photographs and all information for this chapter courtesy Detlev Vreisleben, DC7KG, Germany.

- Document BStU MfS - HA II Nr. 42911 *. * BStU is the Bundesbehörde für die Stasi-Unterlagen, the Federal Commissioner for the Records of the State Security Service (Stasi) of the former German Democratic Republic (DDR). HA II (Hauptabteilung II) was the counter-espionage department.

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GEBRAUCHSAN (EIGUNGAN FÜR KLEINGERÄT	
IN DIESEM PÄCKCHEN FINDEN SIE FOLGENDE TURLE, DIE 201 KLEINGERAT GEHURE	1
EINE TASCHENLAMPEBATTERIE, D.H. DAS GER.T CALEST CET.ANT ALS	Original (reduced size) user operat- ing instructions in the German lan-
BATTERIE VIER RESATZBATTERIEN (RUND UND PLACH) PÜR DAS GERÄT EIN KLEINES STÜCK PLASTIKSCHLAUCH	guage which were issued with each
UM GERAT ZU BENUTZEF, MÜSSEN SIE ERST DIE BATTERIEPAPPVERKLEIDUNG ENTFER DAS KÖNNEN SIE TUR, INDEM SIE DIE BATTERIE IN DER EINEN HAND NEHMEN UND DEM DAUM DER ANDEREN HAND AUF DEM KONTAKT AUF DER OBERSEITE STELLEN UND UNTEN DRÜCKEN, DANACH SOLL DIE BATTERIE OHNE SCHWIERIGKEITEN AUS DER VER KLEIDUNG RUTSCHEN.	WACH RACH English document.
NACKT STEHT ALSO DAS GERÄT MITTEN IN DER BATTERIE. SIE SEHEN ZUERST DEN WEISSEN DRAHT, DER UM DIE BATTERIE UMWICKELT WORDEN IST. DAS IST DIE AN NE. WINDEN SIE SIE AB, DANN ERBLICKEN SIE MEHR VON DEM GERÄT SEIDST. SEIEN SIE BITTE SMEN VORSICHTIG HIT DER ANTENNE. SIE IST SEHE DÜNN UND DAHER LEICHT ABBRECHEN. SCHAUEN SIE AUF DAS ENDE DES DRAHTS. ES IST NA ALSO CHNE WEISSE VERKLEIDUNG, DAMIT SIE IHN AN EIN LÄNGERES STÜCK DRAHT BINDEN KÖNNEN. DAS KÖNNTE MAL NÖTIG SEIN, WENN DER EMPPAGE AUF EINMAL SCHLECHTER WIRD, BESONDERS IN WINTER. MIT EINER LÄNGEREN ANTENNE WIRD I EMEPANG WESENTLICH VERBESSERT.	TEN- Kann LCK T ,
FÜR DEN EMPFANG SELBST: BIN= UND AUSZUSCHALTEN IST WIE UNTEN ABGEBILDET:	
EIN AUS	
ST.	
VON OBEN GESEHEN	
VOLUMREGLER IST SCHWARZES ZAHNRAD. WEIL DAS GERÄT NAGELMEU IST, IST DAS ZAHNRAD NICHT SO LEICHT ZU BEWEGEN. ES WIRD ABER LOCKERER MIT DER ZEIT. ANFANG MÜSSER SIE WAHRSCHEINLICH EINEN FINGERNAGEL IN EINEM DER ZÄHNE ST KEN UM DAS RAD ZU BEWEGEN.	
HALTEN SIE DANN DAS GERÄT DICHT AN IHR OHR! ES HAT KEINEN KOPPHÖRER, NU BINEN LAUTSPRECHER (KLEINEN RUNDEN ROSGEFÄRBTEN GEGENSTAND NEBEN SCHALTE DAS SOLLTE NORMALREWEISE EINEN GUTEN EMPFANG VERSICHERN, ABER WENN SIE TROTZDEN SCHWIERIGKEITEN MIT DEM ABHÖREN HABEN; DANN SOLLEN SIE DEN SCHI AN DEM LAUTSPRECHER BEFRSTIGEN. STECKEN SIE DANN DAS ANDERE ENDE DES SCHLAUCHS DIREKT IN IHR OHR.	E).
BATTERIEN: DIE ZWEI KLEINE BATTERIEN, DIE SCHON IN GERÄT SIND, SIND NEUE. WIT DER ABER MÜSSEN SIE ERSETZT WERDEN, DAHER DIE VIER ERSATZBATTERIEN IM PÄCKOH UM SIE ZU ERSETZEN, ACHTEN SIE BESONDERS DARAUF, DAS SIE DIE MEUEN RICHT EINSTECKEN. BEIDE BATTERIEN SOLLEN AUF EINANDER GESTAFFELT WERDEN, BEID WIT BLAUSTRICHSEITE OBEN. WENN DAS GERÄT FÜR LÄNGERER ZEIT NICHT BENUTZ WIRD, IST RATSAM, DIE BATTERIEN AUS DEM GERÄT ZU NEHMEN, DAMIT SIE LEBEN BLEIBEN.	
PAPPVERKLEIDUNG: MIT DER ZEIT WIRD DIE PAPPVERKLEIDUNG SCHMUTZIG: WENN DAS PASSIERT, KAU SIE EINE NEUE DDR BATTERIE. ENTFERNEN SIE DIE PAPPVERKLEIDUNG DAVON, UNI SIE ALS NEUE TARNUNG FÜR UNSER GERÄT BENUTZEN. VIEL GLÜCK!	Pen.
User instructions for 'Kleingerät'.	
User instructions for Kleingerät.	Translation of the original German user

In this packet you will find the following items which are part of the 'Kleingerät': - One flashlight battery, namely the actual set, disguised as a battery.

- Four spare batteries (round and flat) for the set.

- A small piece of plastic tube.

Translation of the original German user instructions following the rather peculiar grammar and sentence structure of the original.

To use the set you should first remove the cardboard cover. This should be done when you hold the battery in one hand and pressing with the thumb of your other hand on the upper contact. The battery should now slide out of its cover without difficulties.

The receiver set is now uncovered. The first thing you will see is a white wire which is wound on the battery. This is the aerial. Unwind the wire, then you will see more of the actual set. You must be very careful with the aerial wire which is thin and may easily break. Look at the end of the aerial wire. This is uncovered, without the white insulation, which allows you to connect it to a longer piece of wire. This may be needed one day when the reception is getting worse, particularly in the winter. With a longer aerial the reception will be considerably better.

For the reception itself:

Switching on and off is as depicted below:



Volume control is a black thumb wheel. Because the set is brand new, the thumb wheel is not easy to move.

Then you hold the set close to your ear! It has no headphone, just a loudspeaker (small round pink painted object near the on-off switch). This should normally be sufficient for good reception, but when nevertheless you have difficulties with listening, than you should attach the plastic tube to the loudspeaker. You should then put the other end of the tube in year ear.

Batteries:

The two batteries, already in the set, are new. In time, however, they must be replaced, hence the four spare batteries in the packet. To replace the batteries, you should particularly take care that the new batteries are correctly placed. Both batteries must be stacked, with blue mark on top. When the set is not used for a longer period, it is advisable to remove the batteries from the set to keep them fresh.

Cardboard cover:

In time the cardboard cover will get stained. If this happen, you buy a new DDR battery, remove the cover and use this as a new disguise for our set.

Good Luck!

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