The VMARS Archive

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Please refer anyone else wanting a copy back to VMARS – either to our website at http://www.vmars.org.uk/ or by email to the Archivist at archivist@vmarsmanuals.co.uk. If you want to know more about our copyright, please see the FAQ below.

FAQ on copyright of VMARS documents

Q How can you copyright a document that is already in the public domain?

A. *Plainly the original copyright of the content has expired, or we have obtained permission to copy them. What we copyright is our own edition of the document.*

Q. Surely your "own edition" is identical to the original document, so cannot be copyrighted?

A. *Our editions are **not** identical to the original document. You will find that full advantage has been taken of electronic publishing facilities, so pages are cleaned up where possible (rendering them better than originals in some cases!), and large diagrams are prepared for both on-screen viewing and for easy printing at A4 format.*

Q. Why do you not just give your manuals away, as so many do via the internet these days?

A. *We do make all our manuals available free of charge (in soft copy) to VMARS members. These members have already covered the costs of running the archive via their subscriptions. The only time members are charged for copies is when they request them on paper, in which case charges are restricted to the cost of paper, ink and postage.*

The VMARS archive is not a "shoe-string" operation. Money is spent on computing facilities to make copies available, and on shipping original documents securely (usually costing several pounds per shipment) to carry out the scanning. As members have already contributed to these costs, it is only reasonable that non-members should do likewise – and thus a very moderate charge is levied for copies provided to non-members. With typical commercial photocopying charges starting at 5 pence per A4 side, it will be evident that paying 4 pence for our equivalent on paper is excellent value (amounts current at Spring 2004). We also think "you get what you pay for" – we invite you to make the comparison and draw your own conclusions!

Despite the above, we will be making copies of essential technical information (circuit diagram, parts list, layout) freely available to all via our website from Summer 2004 onwards. This will be done to try and encourage and enable the maintenance of our remaining stock of vintage electronic equipment.

Guidance on using this electronic document

Acrobat Reader version

You need to view this document with Acrobat Reader **version 5.0** or later. It is possible that the document might open with an earlier version of the Acrobat Reader (thus allowing you to get this far!), but is also likely that some pages will not be shown correctly. You can upgrade your Acrobat Reader by direct download from the internet at http://www.adobe.com/products/acrobat/readermain.html or going to http://www.adobe.com/ and navigating from there.

Bookmarks

This document has had "bookmarks" added. These allow you to quickly move to particular parts of the document, a numbered section or maybe the circuit diagrams for instance, merely by clicking on the page title. Click on the "Bookmarks" tab on the left hand side of the Acrobat Viewer window to access this feature – move the cursor over these titles and notice it change shape as you do so. Click on any of these titles to move to that page.

Large diagrams

The large diagrams are given in two formats – in A4 size sheets to allow easy printing, and complete as originally published to allow easy on-screen viewing. These versions are in different sections of the document, which can be found within the bookmarks.

Printing the document on an A4 format printer

The document has been optimised for printing on A4 size paper (this is the common size available in UK and Europe, which measures 29.7cm by 21.0cm). Please follow these steps (these are based on Acrobat Reader version 6.0 – other versions may differ in detail):

1. Work out the page numbers you want to print. If you want to print the whole document, then within "Bookmarks" (see above), first click on "**Front**", and note the page number given at the bottom of the Acrobat window – this will give you the page number of the first page to be printed. Similarly click on "**End of A4 printable copy**", to determine the last page to be printed.

2. Select "File – Print" or click on the printer icon. This will bring up the print dialog box.

3. Select the correct printer if necessary.

4. In the area marked "Print Range" click on the radio button marked "Pages from..", then enter the first and last page numbers worked out in step 1 into the "from" and "to" boxes.

5. In the "Page Handling" area, next to "Page Scaling", select "Fit to paper". The press "OK"

Printing the document on an US Letter format printer

Since A4 and US Letter sizes are similar, it is expected that this document should print satisfactorily on the latter format paper. This has not been tested however, and is not guaranteed. Follow the steps as for A4 printing, and make doubly sure that "Fit to paper" is selected (step 5).

Any other problems?

Please get in touch with me at archivist@vmarsmanuals.co.uk.

Richard Hankins, VMARS Archivist, Spring 2004

STATION KIT, RADIO, AMPLIFER, R.F., No 7

(Power supply, rotary No 47 and loading coil assembly, aerial)

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

SUB-TITLE: PSR47 - RLA contacts welding

1. SUMMARY

It is possible for the contacts of relay RLA to weld together if not properly adjusted, causing the rotary converter to run continuously even though the amplifier, r.f., No 7 is switched off. This regulation details the action to be taken when this failure occurs.

2. ACTION

a. Action required by units and establishments holding the equipment

When this fault condition occurs, operate the cut-out on the front panel by pulling out the operating button. Request the unit responsible for field repairs of the equipment to take action in accordance with this instruction.

b. Action required by units authorized to carry out field and base repairs

The only action is to replace the relay. Parting and cleaning of the contacts must be regarded only as an emergency operation, as removal of the cadmium oxide film from the contacts will render them more prone to welding.

T/62335/6 (TELS)

END

STATION, RADIO, AMPLIFIER RF NO 7

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

SUB-TITLE: Obsolete relays RLC, RLD

SUMMARY

1. Relays RLC and RLD 5945-99-053-0223 are no longer available. The replacement relay is Z37/5945-99-195-1173. The new relay is a four changeover type. Hence two spare sets of contacts are available should one or both pairs in use be damaged.

ACTION

2. On failure of relay 5945-99-053-0223 or when existing stocks are exhausted, use new relay Z37/5945-99-195-1173 as a direct replacement. For ease of soldering, contact sets 1, 2 and 3 are to be used with contact sets 24, 25 and 26. Arrangement of contacts is shown in Fig 1.

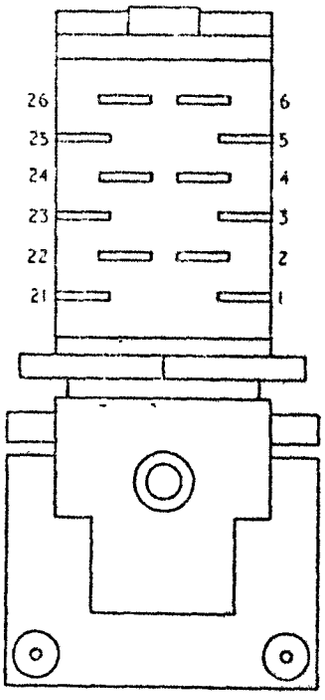

Fig 1 - Contact detail

T/62335/D & M/Tels

END

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c. This information may be disclosed only within the Defence Departments of the recipient Government, except as otherwise authorized by Ministry of Defence (Army).

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STATION, RADIO, AMPLIFIER, R.F. NO 7

TECHNICAL HANDBOOK - MISCELLANEOUS INSTRUCTION

SUBJECT: Amplifier r.f. No 7 - Carrying handles

SUMMARY

1. Special tools are required to remove the carrying handles on the amplifier r.f. No 7.

ACTION

2. When it is necessary to remove the carrying handles, locally manufacture the special tools as detailed in Fig 1 and 2.

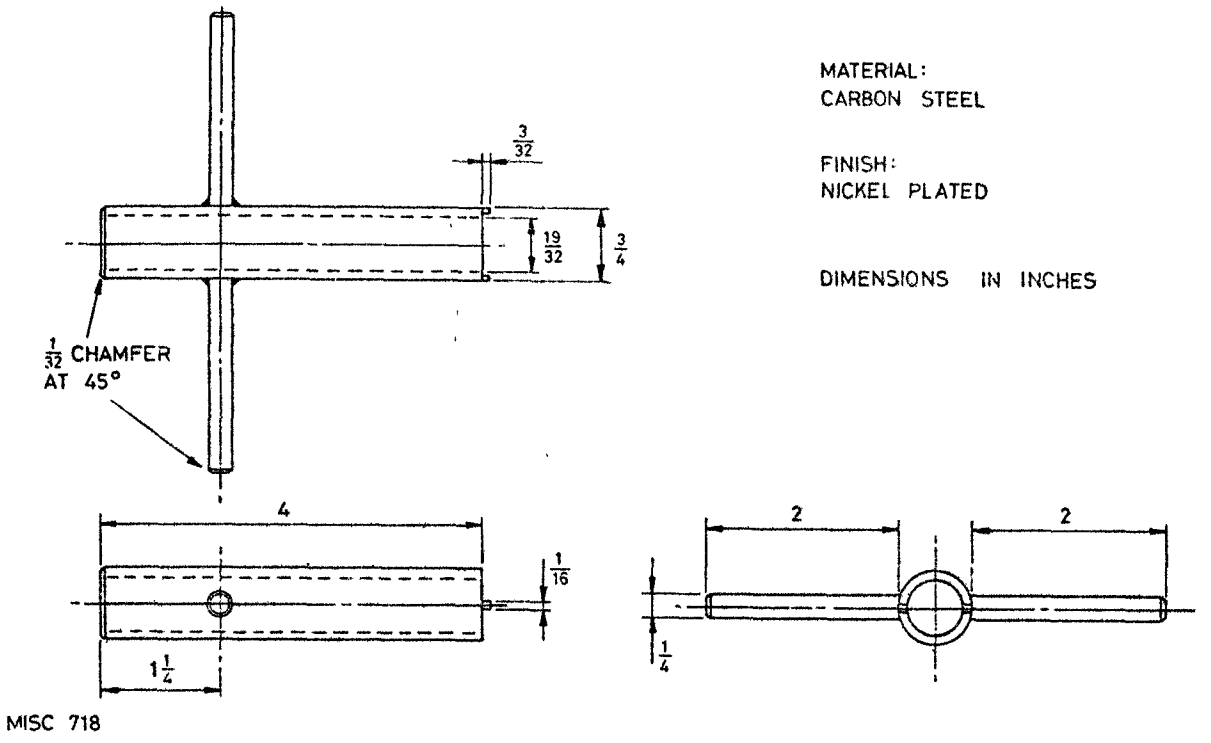

Fig 1 - Manufacturing details

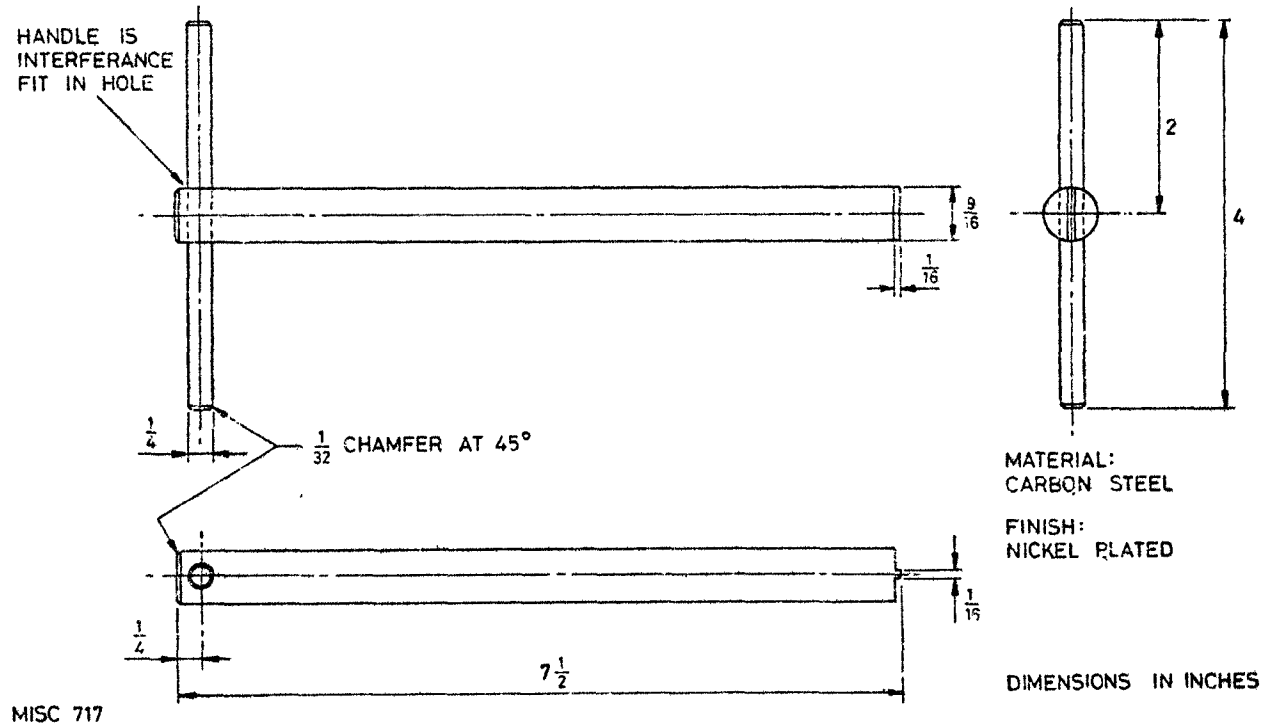

Fig 2 - Manufacturing details

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END