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THE DOLPHIN DOS

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Produced and distributed in the U.K. by Evesham Micros
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INSTALLING

Fitting the hardware for "Dolphin DOS" is not a difficult task but one that requires great care to be taken. Evesham Micros can not be held responsible for any damage that may result to either the Dolphin DOS or the equipment to which it is to be fitted as a result of either the fitment or attempted fitment of the Dolphin DOS.

Before starting read the instructions for fitting and if you have any doubt about your ability to proceed with the job then don't do it. Get someone with the appropriate knowledge/ability to do the job for you. If you have a '64 with a soldered in kernal chip and the prospect of desoldering it is a little daunting, then get someone to do it for you. Anyone involved in TV/radio repairs or a radio amateur will be able to do it.

PART ONE... The 1541

Disconnect both the power and serial leads from the 1541. Turn it upside down and use a posidrive screwdriver to remove the four cover retaining screws. Turn the unit back over and remove the top. You will now be able to gain access to the necessary parts. Two chips must be removed as shown in diagram 1. These are socket numbers UC3 and UC4, chip numbers 6502 and 6522 respectively. Before doing this check that socket number UC2 is alongside UC3 and that this also contains a chip numbered 6522. If not then Dolphin DOS is not suitable for your drive and you cannot proceed no further. (Only a relatively small amount of early 1541s have this non standard layout.) Use a small electrical flat bladed screwdriver to carefully lever the chips out of their socket, put them somewhere safe.

Take the larger of the two circuit boards supplied as part of the Dolphin DOS look at the position it will take when inserted in the sockets vacated by the chips that you have just removed. The vacant sockets in the Dolphin DOS board are to the right. When you are sure you have the orientation correct insert the pins on the underside of the board into the sockets that are now vacant in the disc drive. This is best done by getting down to eye level to check the alignment, then pressing firmly on top of the board squarely above the sockets. It may be necessary to bend one or two capacitors down so that they lie more flush to the board in order to get the pins fully inserted into the sockets. Once is correctly fitted you can the refit the two chips that you reamoves earlier, into the vacant sockets in the Dolphin DOS board. These must be fitted back in the same positions as when removed, therefore refer to diagram 1. Be sure that the chips are facing the correct way. Ie. the end with the notch MUST BE closest to the back of the drive. if the legs of the chips are splayed out too much to fit easily bac in to the socket press both sides of legs against a flat surface until they are square to the top face.

As you will have seen there are two cables leading from the Dolphin DOS board. One of these is the cable which connects to the '64. This one is easily distinguishable by being much longer than the other and having a plug suitable for connection to the user port fitted. This one can be lead out of the 1541 through the area of the power input socket. No special opening is needed as it is easy to route it through there and still be able to plug the power plug in and out when necessary. The other cable has a switch fitted and to make a good job of the fitting you will need to drill a small hole in which to mount the