

What we do at XBR Electronics Ltd



- **Repair**
- **Reverse Engineering**
- **Ultrasonic Cleaning**
- **Testing**
- **Modifications**
- **Manufacture and assembly**



XBR Electronics Ltd Have a management system audited to [BS EN ISO 9001:2015](#)

Repair

The Repair, testing, servicing and modification of electronics, this is our core work. It is carried out by staff experienced and trained, not only on rail and industrial electronics but that have had training and experience working on-site in rail depots on the vehicles, Both of our Directors qualified as Dual trained Electro-machanical fitters before re-qualifying as Electronic specialists.

All are competent in working to customer instructions such as Level 3 electronic repair and test procedures and are

versed in Rail Electronics test and repair techniques.

We have a library and archive of many current and heritage documents to act as supporting data.

Reverse engineering

Do you have that one spare that's as rare as rocking horse ****. If you would like to increase your float then we can reverse engineer. No drawings, schematics or component lay-outs necessary just the original for us to "clone", we can even iron out some of the design flaws and obsolete components if you wish.

Ultrasonic cleaning

We have Ultrasonic Cleaning and Hot air drying Facility for Component cleaning. This is to ensure that rail operating debris (ROD) is removed from the components before the repair is undertaken, this prevents contamination and tracking.



Testing

We offer a service for test such as Customer supplied and Level 2 test specifications. We can work with the customer to develop their specification or procedure

Design and Development

We work with our customers technical departments to facilitate their design requirements, we have been instrumental in the design of equipment that has passed RIA13 1990, BS EN 50155:1996, including the [XcaliBR ATE](#) [MKII WSP ATE test box](#) and a XBR Solid State relay 1.5KVDC 3A (VACUUM SWITCH TYPE)

C73 rescue vehicle PWM power and brake controller, a conversion from MkII WSP to Mkl WSP, and the electronic CLR for the C455 and C442

Modification

This is complimentary to Design and Development and in this instant we work with the customer to provide suggestions for engineering change where a component or specification is not suitable for the required application.

Procedure Writing

This service is offered in conjunction with our repair, servicing, modification, testing and design services and can either be developing a best practise for the repair, testing or modification of components in partnership with the customer or can be a procedure that suggested by XBR that the customer may wish to adopt.

Programming

An out sourced programming service is provided for PICS, EPROMS and other types of hardware
andy@xbrelectronics.com

Test equipment

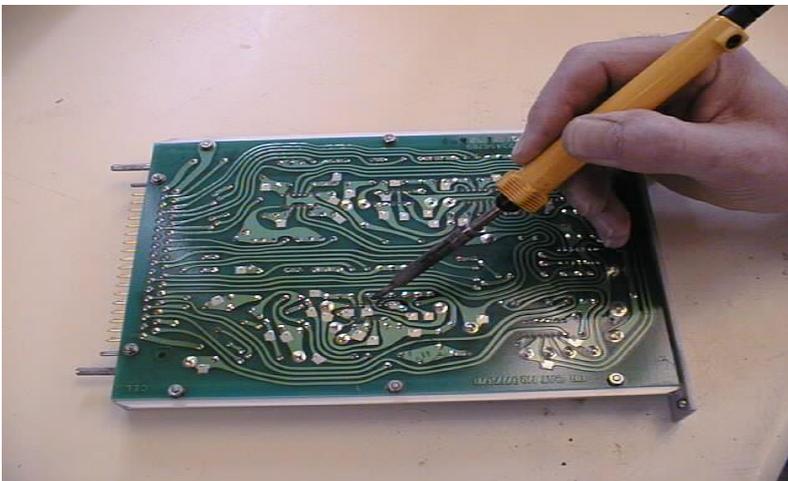
[XcaliBR ATE A MkII/Mk1 WSP ATE test box](#), A C442 HVAC Test box and a rechargeable modification to the [TG315](#) oscillator have been designed by us.

Proprietary WSP MkII test equipment and historical BR test equipment such as the [XBR SISTE speedo](#) test set and the EWS PAC and PCV test equipment has also been manufactured here.

Calibration

A Calibration service trace able to National Standards is offered for "in house" and British Rail proprietary test equipment. We also provide an out sourced NAMAS calibration service. **Modifications**

for further details go to "[what we do](#)"



Manufacture and assembly

Printed Circuit Boards

Using CAD aided development tools we can design and layout PCBs and if you wish we can out source the production and populate them.

We manufacture Marine Battery Chargers, Battery Dischargers, small scale PCBs and population, Test equipment, reverse engineered PCBs.

Sourcing

If you have a difficult item to source or would just like someone to do the leg work then we have a sourcing and procurement service.

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