

# THE TORNADO TELEGRAPH



60163 TORNADO  
New Steam for the Main Line



Welcome to the latest issue of The Tornado Telegraph with an update on the overhaul.

We are, of course, disappointed not to be back running trains this month however that shouldn't detract from the extremely hard work put in by the teams in Loughborough and Darlington to return *Tornado* to steam. We are due the imminent arrival of the refurbished boiler from Germany (photos below) and the wheelsets from South Devon. Ahead of that inevitable hive of activity, when the large components come together, other elements have been thoroughly inspected, cleaned, refurbished or replaced.

Higher energy and material costs, and extended time frames, have inevitably hit our budget.

Whether you choose to join The Overhaul Club or make a one off donation, we are hugely grateful for your support.

[Join The Overhaul Club](#)

[Make a One-off Donation](#)

SAVE THE DATE - Saturday 22nd October  
Blackwell Grange Hotel, Darlington  
Invitations to follow

## OVERHAUL UPDATE FROM LOUGHBOROUGH



With the wheels and boiler due back into Loughborough imminently (TTT143 will be brimming with this activity!), the team have been working hard to prepare. Click the link for more images.

[July Update From LMS](#)

[July Electricals Update](#)

## ETCS - what is it and why are we doing it?



Tender front with new ETCS enclosure being assembled and original fixtures being refitted.

The way drivers receive information from signallers about the safe route ahead has fundamentally not changed since the pioneering days of the Victorians. In a modern world where information is at your fingertips, railway signalling needs to catch up. Technology exists, combining expertise across Europe, for an off-the-shelf digital signalling system that offers unrivalled interoperability between railways but also is safer, more economical and easier to maintain. It does this through removing the need for drivers to observe lights or semaphores from the trackside and brings them onto a digital screen into the cab. Drivers will be able to see distances in front of them they'd only dreamed of, making the consumption of coal and water even more economical as they can see the route ahead for around six miles. The system has been proven and adopted all over the world, it's name is the European Train Control System, or ETCS, which forms part of the European Railway Traffic Management System (ERTMS) when traffic management functionality is added.

The work is being funded by Network Rail, and *Tornado* will be the first steam locomotive in the UK to be fitted with the technology.

## BOILER PROGRESS





The refurbished boiler is getting closer to completion in Meiningen. Above are some images taken earlier this month. The team are due to visit the DBM works ahead of the boiler's return, just weeks away.

## THE OVERHAUL CLUB



We are spending more time and money on *Tornado's* overhaul than initially planned. The hard work by the teams in both Darlington and Loughborough will ensure that *Tornado* returns to the

tracks in stellar condition, ready for years of operations.

Your contributions are more important than ever in the light of changes to the scope of work on the boiler and other challenges delaying the locomotive earning money on trains this Summer. If you have not yet signed up but would like to make a donation towards the overhaul, please find out more [here](#).

## The Overhaul Club

# WE COULDN'T DO IT WITHOUT YOU

We couldn't do any of this without you, and remain hugely grateful for each and every contribution to *Tornado*. Your support as Covenantors, Donors and Volunteers remains vital as we navigate the overhaul, and mean all the more at this time.

Here are some of the ways people choose to support us:

**DONATIONS** - We continue to encourage donations of all shapes and sizes (every pound counts).

To make a donation, please click [here](#).

**COVENANTORS** - We always welcome new Covenantors as we have overhauls, maintenance and repairs to fund. The Covenantors are the backbone of all we do at The A1 Steam Locomotive Trust. To become a Covenantor for the price of a pint a week, learn more [here](#).

**JOIN THE CLUB** - Help us to fund the engineering maintenance on *Tornado* this Spring by joining The Overhaul Club. Find out more [here](#).

**VOLUNTEERS** - Do you have skills that could help the Trust? We can always use extra pairs of hands. If you enjoy meeting people, please consider joining our merchandising team at events and on tours. If your talents involve engineering, locomotive cleaning, or administrative work, we can always find something for you to do! Contact [volunteer@a1steam.com](mailto:volunteer@a1steam.com) for more details.

**LEGACY PROGRAMME** - Help us to continue our work long into the future. Learn more about how to leave a gift to *Tornado* [here](#).

Alternatively, if you would like to speak with someone directly, please contact the office on [01325460163](tel:01325460163) or email your details to [enquiries@a1steam.com](mailto:enquiries@a1steam.com) and someone will get back to you.

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