

THE TORNADO TELEGRAPH



60163 TORNADO
New Steam for the Main Line



No. 60163 *Tornado* - In the evening light the train heads towards Blackburn, 19th September 2020 -
Kallum Buckley/A1SLT

Dear Supporter

Welcome to the latest issue of *The Tornado Telegraph* which includes updates on *Tornado's* recent maintenance, the 2021 Raltours calendar, how you can help to keep *Tornado* on the main line and an exciting new Hornby model you can purchase through our on-line shop.

TORNADO'S MAINTENANCE



Tornado sitting on the jacks 'floating' just clear of the rails. The yellow load cells transmit the weight measured at each wheel to the control display and the spring tensions can be adjusted to distribute the load evenly across each axle and from front to rear of the locomotive - A1SLT

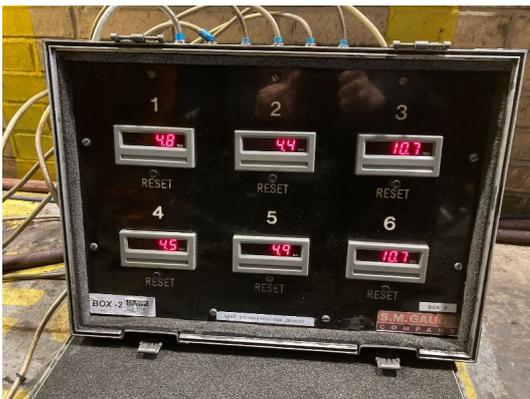
Although the remaining 2020 planned railtours for The Railway Touring Company have been cancelled, our team has been kept busy looking after *Tornado* at York, taking the opportunity to conduct some running maintenance. As recently reported in *The Communication Cord*, prior to 'The Ticket to Ride', we changed a broken driving spring and closer examination of two other springs suggested that these were showing similar signs of potential failure. The decision was taken to change the remaining driving springs and as a result, after this had been completed, the locomotive was weighed to check the load was correctly distributed. On Monday 23rd November a fitter from the North York Moors Railway's Motive Power Department attended with weighing equipment to York to completing the weighing process. In the photo above, the locomotive is seen sitting on the jacks 'floated' just clear of the rail. The yellow load cells transmit the weight measured at each wheel to the control display and the spring tensions can be adjusted to distribute the load evenly across each axle and from front to rear of the locomotive.

By the end of the first day, after several adjustments, the results for the two axles on the front bogie were still well out of range. The team found the spring bolts were seized and they were unable to adjust them easily, so the following day, with the help of an oxy-propane heating torch, they were able to fully dismantle the front bogie wheel suspension. The spring hanger bolts were cleaned up and, where necessary, the threads were dressed with a file and the rubber damper blocks on each bolt were replaced. Thankfully, after everything was reassembled, the engine was re-weighed, and this time the weights were all within specification.



Ian Greenan cleaned the threads on one of the offending bolts on the front bogie springs; cleaned up and reassembled, the springs were then adjusted to give the correct axle loadings - *A1SLT*

These are the readouts from the final measurements. The front of the engine is to the left and the top and bottom readings show the readings from each side of the locomotive. In the photograph on the left, the reading 1 & 2 are the front RH bogie axleboxes and 3 is the leading driving axle; 4, 5 & 6 are the LH side. The right hand side photograph shows the second unit: 1 & 2 are the RH centre and rear driving axleboxes and 3 is the RH Cartazzi; 4, 5 & 6 are the LH side.



During the boiler washout reported in last month's *Tornado Telegraph*, we took the opportunity to invite our boiler insurance inspector to examine the interior and conduct a cold exam of the boiler. At the same time, he conducted a six yearly internal inspection of all the air receivers on the engine and tender. He returned to inspect the boiler in steam and check the air reservoirs in service at working pressure: we are very pleased to report that all was successful and *Tornado* passed with flying colours!



Under the watchful eye of the Boiler Inspector the safety valves are successfully tested as part of the annual boiler certification - A1SLT

In the New Year, we plan to complete the routine annual re-certification of the locomotive and AWS/TPWS, OTMR and GSMR systems. For those less familiar with terminology, these are:

- AWS/TPWS (Automatic Warning System and Train Protection & Warning System): Both provide the driver with audible and visual confirmation of signal indications and prevent passing signals at danger.
- OTMR (On Train Monitoring Recorder): This is our 'Black Box' which record inputs of key data from the TPWS, brake system, steam chest pressure, speed etc
- GSMR (Global System for Mobile Communications - Railway): A dedicated GSM network for railway communications between train crew and signaller. It also provides train reporting/headcode information to the Network.

BECOME AN A1 COVENANTOR

It has been a difficult 2020 for everyone but we have been able to enjoy the sight and sound of an A1 back at work on the national network, albeit less than planned. If you are not already a Covenantor then please do give consideration to supporting *Tornado* - 'An A1 for the price of a pint a week' is how we all came together to build *Tornado* and provides the essential support to keep her on the main line into the future. We are grateful to all those who continue to support the locomotive.

[DOWNLOAD YOUR A1 COVENANTOR FORMS](#)



No. 60163 *Tornado*, at Calder Valley, hauling 'The Ticket to Ride' on 19th September 2020 - *Aiden Wellock/A1SLT*

We are very much looking forward to our 2021 programme of tours and welcoming passengers on board. Our new brochure has just been published with a variety of tours through the year. We hope you find something of interest.

Tornado Railtours 2021 Diary

- Saturday 13th February - [Valentine's Luncheon Circular Tour](#) - from York, Thirsk and Darlington
- Saturday 13th February - [Valentine's Evening Circular Tour](#) - from York
- Saturday 13th March - ['The Ribbleshead Rambler'](#) - Hull to Carlisle and return
- Saturday 27th March - ['The Fens and Fells Flyer'](#) - Cambridge to Carlisle and return
- Saturday 3rd April - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Monday 5th April - ['The Clyde Aberdonian'](#) - Glasgow to Aberdeen and return
- Saturday 10th April - ['The Caledonian'](#) - Birmingham to Edinburgh and return
- Saturday 8th May - ['The Cumbrian Explorer'](#) - Darlington to Carlisle and return
- Saturday 15th May - ['The Jorvik Express'](#) - Liverpool to York and return
- Saturday 22nd May - ['The Pennine Explorer'](#) - Leicester to Carlisle and return
- Thursday 22nd July - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Sunday 31st July - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Thursday 12th August - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Thursday 19th August - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Thursday 2nd September - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Saturday 11th September - ['The Aberdonian'](#) - Edinburgh to Aberdeen and return
- Thursday 16th September - [Tornado and Flying Scotsman](#) - West Midlands to Carlisle and return
- Thursday 16th September - [Flying Scotsman and Tornado](#) - Peterborough to Carlisle and return
- Saturday 18th September - [Tornado and Flying Scotsman](#) - Middlesbrough to Carlisle and return

- Saturday 18th September - [Flying Scotsman and Tornado](#) - Birmingham to Carlisle and return

Tornado Railtours trains can be booked through the links above, our [website](#) or by calling 01325 488215.

DOWNLOAD THE 2021 RAILTOURS BROCHURE

EASYFUNDRAISING

The screenshot shows the easyfundraising website interface for the A1 Steam Locomotive Trust. At the top left is the trust's logo and name. At the top right is a pink button labeled 'Support this cause'. The main heading reads 'Support A1 Steam Locomotive Trust with easyfundraising', followed by another pink 'Support this cause' button. Below this, a text block states: 'easyfundraising® is the UK's biggest charity shopping fundraising site. It's simple to use and it's free. Since we launched in 2005, we've helped thousands of good causes raise money simply by shopping online. Our community of over 1.8 million loyal supporters has so far raised over £31 million.' A three-step process diagram follows: 1. Get started (Choose a cause to support then join for free), 2. Start shopping (Visit retailers and then shop online as normal), and 3. Raise donations (Your cause receives free donations). A vertical 'Feedback & Support' button is on the right side.

It's a challenging time for so many organisations and businesses. However, if you are shopping online over the coming weeks, please consider using easyfundraising before going directly to your preferred retailer. It's simple to use with no cost to yourself!

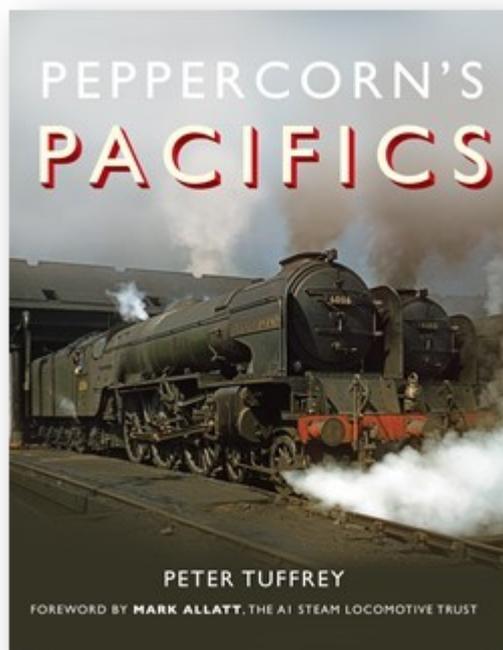
How does it work? easyfundraising turns your everyday online shopping into free donations.

How? Just start your online shopping first at easyfundraising, then shop as normal.

The selected retailers will then make a small donation to say thank you. There are 4,113 retailers to choose from! So far, our supporters have raised £4,000 for The A1 Steam Locomotive Trust, by shopping online through easyfundraising.

Find out more [here](#). Please contact us at enquiries@a1steam.com if you have any problems.

PEPPERCORN'S PACIFICS BOOK OFFER



Peter Tuffrey's *Peppercorn's Pacifics* book is a remarkable collection of photographs which feature rare colour and black & white images of Arthur Henry Peppercorn's class A1 and A2 locomotives.

Only one of his famous 'Pacifics', Peppercorn class A2 No. 60532 *Blue Peter*, was preserved but none of the Peppercorn class A1s - hence the formation of The A1 Steam Locomotive Trust to build a brand new class A1, No. 60163 *Tornado*, as the next in the class. The book includes black & white and colour photographs of all 49 original class A1s and 15 class A2s. The photographs show the 'Pacifics' under construction, from the lineside and on-shed. A full history of each locomotive features strongly in the text beneath the images. The book also details Peppercorn's life with many personal photographs and a foreword from our own Mark Allatt.

The book is now available at the offer price of only £15 (post free in the UK, overseas orders, will be subject to the usual postage charges) - the usual price of the book is £25. Please use the link below to place your order as any that come through this will be recorded as coming from The A1 Steam Locomotive Trust and we will receive a donation from each copy sold. The link is: <https://www.gnbooks.co.uk/product/peppercorns-pacifics-a1trust/>

ONLINE STORE



NEW: Hornby have produced a OO-gauge model of *Tornado* as 'The Aberdonian' train. She is in LNER apple green livery with 'BRITISH RAILWAYS' on the tender. The locomotive is DCC ready, has a 3 pole motor with flywheel and is 293mm long. The pack also comprises three Mark 1 coaches in maroon livery, an FO, a TSO and a BSK. It is available for £199.

Our online store has everything for the *Tornado* enthusiast, from pens to models and children's T-shirts to adult's fleeces. With many people looking for things to do, our 1,000 piece jigsaw of *Tornado* on 'The North Briton' at Wylam is a wonderful distraction! Visit our [online store](#) to get your hands on some great *Tornado* merchandise.

Also, contact shop@a1steam.com for details of smokebox number plates and headboards carried by *Tornado* - available to buy from just £200!

COVID-19 MEASURES

With regards to the ongoing COVID-19 situation, our staff are still working from home or at Darlington Locomotive Works (DLW) where they are taking all the necessary precautions. The Works remain closed to volunteers, non-essential staff and visitors. We hope you understand that these circumstances are beyond our control and the restrictions are very necessary at this challenging time.

As a small charity we value your continued support and are reviewing all our activities on a frequent basis to protect everyone involved with the Trust and to secure our long-term future. Please keep an eye on our website and Facebook pages for updates or call 01325 460163 or email enquiries@a1steam.com if you have any questions.



No. 60163 *Tornado* hosting the Household Cavalry Mounted Regiment at the National Railway Museum, York - CAG Photography/A1SLT

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