TORNADO
Spring and Summer Rail Journeys 2020

alsteam.com/railtours
Did you know that Tornado is the first new main line steam locomotive to be built in Britain for almost 50 years?

The last of the renowned Peppercorn class A1 steam locomotives was, tragically, scrapped in 1966. But, a brand new class A1, No. 60163 Tornado, was brought to life by a dedicated team of volunteers. Now we need your help to keep Tornado on the main line and pay for future overhauls – the last one cost almost £500,000.

The project to build a new Peppercorn class A1 was launched in 1990 and after 18 years of planning, construction and fundraising, the £3 million locomotive was completed in August 2008 at the Trust’s workshop in Darlington.

Funds to build Tornado were raised through regular donations (deeds of covenant), sponsorship (principal sponsor William Cook Cast Products Limited), loans and a bond issue. Tornado recently operated at 100mph, the first steam locomotive in the UK to do so for 50 years, she also starred in the new Paddington 2 movie and in March 2018 reached 100,000 miles since completion, on the North Yorkshire Moors Railway.

According to The Times, Tornado is “a hit across the length and breadth of Britain”.

However, for this to continue we still need your help - and you can come on board for the price of a pint of beer a week!

By becoming a regular donor you can play your part in keeping Tornado on the main line and in recognition of your support, you will receive:

- A special print of No. 60163 Tornado by Jonathan Clay
- Access to view Tornado at all reasonable times
- The Trust’s newsletters on a regular basis
- Proportionate discount off our promoted tours
- Annual Covenantor Card
- The opportunity to attend the Trust’s Annual Convention
- The opportunity to attend days out at heritage railways
- The opportunity to buy exclusive merchandise only available to Covenantors
- Your name inscribed on the Roll of Honour at Darlington Locomotive Works.

Together we can keep Tornado on the main line - become a Covenantor today!

For further information please visit www.a1steam.com, email enquiries@a1steam.com, call 01325 460163 or write to Darlington Locomotive Works, The A1 Steam Locomotive Trust, Hopetown Lane, Darlington DL3 6RQ

Tornado is a special engine; star of both big and small screens, it is the first steam locomotive built in the UK since the 1960s. Now entering her second decade, we invite you to join Tornado for a nostalgic journey by steam train, travelling in heritage carriages along iconic routes to timeless destinations.

Offering dramatic scenery, long tunnels and towering viaducts, the Settle and Carlisle Railway is one of the most spectacular stretches of railway in the world and we are offering three trains to Carlisle in this brochure; one starting in East Anglia and another in the East Midlands, while the third offers a very special trip from Darlington and Yorkshire over the Settle and Carlisle Railway before returning along the beautiful Cumbrian Coastline.

It is with some excitement that we announce our first trains leaving from and traveling to the vibrant city of Liverpool. In spring, passengers from Liverpool and Manchester are invited to take the scenic route through the Peak District for a day soaking up history and culture in York. Those with a ‘Ticket to Ride’ from Darlington and Yorkshire can enjoy the sights and sounds of Liverpool in early autumn.

We are very proud to see Tornado hauling ‘The Aberdonian’ programme of trains for the second year following a successful opening season. Ideal for those living in Scotland, and worth travelling for if you don’t, the stunning route along the coast to the Granite City offers a superb day out from Edinburgh. We are also very pleased to be running two trains that cross the border; steaming from the North East of England to the royal cities of Edinburgh and Stirling or from the West Midlands to Glasgow.

This brochure contains further details on all our tours. You can book online via our website, or contact our booking office where a member of the team will be happy to help you. Any profits from our railtours go towards keeping Tornado steaming on the main line for years to come.
Our train is formed of heritage carriages, which provide a nostalgic journey back in time. Passengers can enjoy the beautiful scenery as plumes of steam drift past the windows, and the locomotive’s whistle can be heard. However you choose to travel, you can be assured of a magical day out on a railtour with Tornado.

- **Standard Class**
  You can be sure of a wonderful day out in Standard Class, where every seat is aligned with a window to take in the scenery as it passes by. Where possible, we endeavour to have Standard Class at the front of the train in at least one direction so that the sound of Tornado hard at work can be heard.

- **First Class**
  Our trains offer First Class seating where passengers can look forward to luxurious surroundings, traveling in a comfortable and roomy seat with curtains by the windows. Complimentary teas and coffee are served throughout the day and passengers can enjoy a selection of pastries and biscuits.

- **On-Board Buffet**
  Non-Dining and Standard Class passengers may wish to bring a picnic, or indulge at the On-Board Buffet where a selection of hot and cold drinks, sandwiches and snacks are available.

- **Premier Dining**
  For a fully immersive experience, why not consider booking a Premier Dining ticket; with silver service for all meals, each freshly cooked on board by our elite team of chefs, there is no better way to travel!

**Top tips for a great day out:**
- Our heritage carriages provide a wonderfully nostalgic setting but don’t offer some of the conveniences of modern trains. As there are no electric sockets, you may wish to bring a battery pack to recharge your phone for taking even more photos of your journey!
- Another charming quirk of our heritage carriages is the temperature control. Heating on the train is often provided by way of steam made by Tornado, as such it is a little variable. By contrast, on a sunny day a lack of air conditioning can make the train warm. We recommend wearing layers so that you are comfortable throughout the journey.
- The views along each journey offer much to keep you entralled, especially as the steam from the engine floats by. However, after nightfall you may wish to bring a pack of cards or even a board game. Each seat is positioned at a table so there is plenty of room for fun!

We are delighted to bring you our first railtour of 2020, and what finer way to start than enjoying a steam-hauled journey over the magnificent Settle & Carlisle Railway in springtime!

Especially for our East Anglian customers, the train departs from Cambridge, Ely, March and Peterborough with a diesel locomotive at the head. We also call at Newark before reaching York, where Tornado will be waiting to take over at the front of the train.

From York we take a fast run along the East Coast Main Line passing Darlington and Durham, with glorious views over the Norman Castle and the Cathedral. We then head west through Hoxham and on to arrive in the Border City of Carlisle. Here we have around two hours to explore the City with its fine museum and Castle, cosy public houses and various shops of interest.

Our return journey takes us south via the iconic Settle and Carlisle Railway. Famed for its beauty within the rolling landscape of the Dales and North Pennines, the Settle and Carlisle Railway demonstrates the skill and determination of Victorian civil engineering prowess in challenging and inhospitable terrain. Highlights of the journey include Tornado hard at work to complete the climb to Ais Gill summit, the highest point of the line at 1,169ft, and our train also passes through the superbly restored Dent Station, the highest in England at 1150ft.

To accommodate for the rolling landscape, the railway was built along many viaducts and cuts through long tunnels, the longest tunnel at Blea Moor is over two miles long! One of the most iconic sights on the route is the Ribblehead Viaduct: the 24 arches stretch a quarter of a mile over 100ft above the ground and offer spectacular uninterrupted views of the landscape. Much is said of the beauty and scale of this railway, but to fully appreciate it, it must be experienced first-hand.

Once we have passed Settle Junction and its historic signalbox we head south through Skipton and Leeds as we continue south to Doncaster where Tornado is detached. Our diesel locomotive will have made its way from York ready for the homeward run along the East Coast Main Line and across the Fens.

**TIMES (PROVISIONAL)**

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To make a booking visit a1steam.com/fenandfells or call 01325 488215
Darlington to Carlisle via the Settle and Carlisle Railway and Cumbrian Coast

Picking up at: Darlington, Thirsk, York, Leeds, and Skipton.

We are delighted to offer a wonderful journey from the home of Tornado in Darlington crossing some of the most scenic railway in England. The train takes us across the dramatic landscape of the Settle and Carlisle Railway, before returning along the stunning Cumbrian Coast.

We depart from historic Darlington North Road station as well as Darlington’s main Bank Top station, before continuing south to Thirsk, York, Leeds, and Skipton before traversing the ‘Roof of England’ and the world famous Settle to Carlisle Railway. With its long climb to the stunning Ribblehead Viaduct, many tunnels and views across the Yorkshire Dales and Eden Valley the Settle and Carlisle is rightly one of the greatest railway journeys in the world.

After a break of around two hours in Carlisle we depart south and this time take the Cumbrian Coast route. We exchange the mountainous scenery of the S&C for the longest coastal route in the UK. The railway line twists and turns as it follows the Irish Sea before turning more inland as we pass Barrow and head for Carnforth. Tornado leaves us here and we are diesel hauled for the return to Darlington setting down at outward stations.

Not to be missed, early booking is recommended for this incredible tour.

ABOUT OUR DESTINATION

There will be a break of over two hours for passengers to explore the city; Carlisle is England’s biggest city by area and is the county town of Cumbria. The city sits on the doorstep of both the Lakes and Hadrian’s Wall and blends 2000 years of human occupation with everything you would expect from a vibrant 21st century city. The Cathedral is within a few minutes’ walk of the spacious pedestrianised Greenmarket – a focal point for street entertainment and Farmers’ Markets. Nearby, the formidable fortress of Carlisle Castle stands proud over the cityscape. Overlying this rich heritage is a busy city centre of modern shops, pavement cafes and leisure facilities, that rivals most other cities in the north of England.

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‘THE JORVIK EXPRESS’

Liverpool to York
Picking up at: Liverpool, Newton-le-Willows and Manchester Victoria.

On Tornado’s first tour from Liverpool, passengers from the North West of England are invited to step aboard and enjoy a nostalgic journey across the beautiful landscape en route to the historic city of York. Famed for its historic buildings, museums and many well established bars and eateries, our guests are sure of a superb day out.

Our route follows almost all of the famous Liverpool and Manchester Railway designed by George Stephenson and home to the Rainhill trials and Rocket. From Manchester we tackle the steep climb of Miles Platting before traversing the outer suburbs and heading via Romiley for the picturesque Hope Valley line. After passing through the glorious scenery of the Peak District we head north from Sheffield passing Swinton and Church Fenton before arriving into York.

Passengers visiting York can take time to explore the city centre with the historic Minster and Shambles, enjoy the many shops or even a river boat trip on the Ouse. For a real rail adventure, The National Railway Museum stands close to York Station and passengers may wish to visit the steam giants of the past.

Our return journey takes us via Wakefield before we stop for water at Brighouse. On departure we are routed across the Pennines via the scenic Calder Valley line passing Hebden Bridge and onto Rochdale before arriving at Manchester Victoria. From there our return route is as our outward.

TIMES (Provisional)

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TICKET PRICES (starting from)

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To make a booking visit a1steam.com/jorvik or call 01325 488215

*A* As the date of this tour coincides with the bank holiday weekend commemorating the 75th Anniversary of VE day, our train will have a 1940s feel and passengers are encouraged to dress accordingly.
Did you know...

- **Tornado** was completed at Darlington Locomotive Works in 2008 after 18 years of fundraising and construction.
- The construction cost £3.3m, all of which was paid for by public donations and corporate sponsorship of the project. Most donations came in at £5 each month, which was equivalent to the price of a pint a week! Beer was a little cheaper back then!
- **Tornado** weighs 166 tons (168.8 tonnes).
- **Tornado**'s maximum speed is 100mph, which was achieved in test runs in April 2017. The general limit for steam on the main line is 75 mph.
- **Tornado**'s driving wheels measure 6ft 8in in diameter-taller than an average door frame!
- The maximum boiler pressure is 250lb/sq in.
- There are over three miles of electrical cabling on **Tornado**.
- At full power, the coal burning in **Tornado**'s 50 sq ft firebox has an output equivalent to 11,000 2kw kettles all operating at the same time!
- **Tornado** has a tractive effort (pulling power) of 37,397lb (166.38kN), and produces around 2,500 horsepower at 65mph.
- The maximum practical range with a full tender tank (6,200 gallons) is over 110 miles, **Tornado** would then need to stop for water.

**Keeping Tornado Steaming...**

- To keep **Tornado** running on the national network, it costs around £150,000 per year, including operational and maintenance costs.
- On a typical railtour, **Tornado** burns coal at approximately one tonne per hour and for each mile, she boils roughly 40 gallons (around a bath tub!) of water.
- In a year **Tornado** burns over 200 tonnes of coal, costing around £50,000 alone, along with a £25,000 water bill!

Join us on ‘The Pennine Explorer’, as we travel from the East Midlands to Carlisle and return including the magnificent Settle and Carlisle Railway. Our tour also includes a fast run with **Tornado** along the East Coast Main Line from **York** before taking the stunning Tyne Valley line that crosses Hadrian’s Wall through the beautiful Northumberland scenery.

Our tour begins from Leicester and we travel on through Derbyshire before **Tornado** joins our train near Chesterfield. From **York** we rush along the East Coast Main Line passing Darlington and Durham. We then follow the route of Hadrian’s Wall as it criss-crosses the railway en-route to the Border city of Carlisle. Here we have around two hours to explore the City with its fine museum and Castle, cozy public houses and various shops of interest.

Our return journey takes us south via the world renowned Settle and Carlisle Railway, following this remote but scenic line through the Dales, traversing soaring viaducts and thundering through tunnels along this masterpiece of Victorian engineering.

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To make a booking visit alsteam.com/pennines or call 01325 488215
Birmingham to Glasgow
Picking up at: Birmingham New Street, Tame Bridge Parkway, Wolverhampton, Stafford and Crewe.

Join Tornado for a wonderful day out from the West Midlands to Scotland’s second city. Steam north to discover Glasgow’s vibrant city centre packed with shops, museums and bars. Our tour departs from Birmingham New Street behind an electric locomotive and is routed via Wolverhampton and Stafford before arriving into Crewe where Tornado will be waiting.

We leave Crewe and follow the route of the West Coast Main Line. Whilst away from more familiar A1 territory, it was a regular route for the class when three were allocated to Polmadie shed in Glasgow and worked south. After passing through Warrington and Preston we will pause at Carnforth for our locomotive to take on water. Once underway again we will tackle the long climb to Shap Summit via the formidable Grayrigg bank, the beautiful Lune Gorge and the steep Shap Bank itself. The scenery unfolds across the Lakes to the west and the Pennine ridge to the east during the climb and the descent to Carlisle.

We then cross into Scotland and race through the borders before taking water at Lockerbie. From there we again pick up speed before ascending the long ten mile climb to Beattock Summit, a real test for any locomotive. After cresting the summit we can enjoy the scenery further as we run downhill and across the open spaces toward Carstairs where we continue onto Glasgow via Motherwell and across the Clyde into the award winning station.

After a break of around three hours our electric locomotive will be on hand to whisk our train south to Birmingham following the outward route.

To make a booking visit a1steam.com/caledonian or call 01325 488215
EXPLORING ABERDEEN

There is plenty to see and do in the centre of the bustling city of Aberdeen, with plenty of attractions within easy walking distance of the station. For attractions a little further out, there are local taxis and regular bus services; a hopper ticket to explore the city by bus costs less than £5.

OFF TRAIN EXCURSIONS
To get a real taste of Aberdeenshire, take the opportunity to book one of our off train excursions. (Passengers choosing our off train excursions would leave the train at Stonehaven and rejoin the train at Aberdeen).

Glen Garioch Distillery - £30
It’s true what they say - you can never fully enjoy a dram of Glen Garioch until you have seen how and where it’s made. One of the oldest operating distilleries in Scotland – and its most easterly – Glen Garioch (pronounced Geery in the ancient Doric dialect still spoken in these parts) has been making its mighty malt in the quaint and historic market town of Oldmeldrum, ever since 1797.
Book this tour to discover the personality and character, both of the whisky and those who create it. The in-depth experience explores the secrets passed on by generations in the pursuit of quality. The tour would not be complete without tasting some of their small-batch whiskies.

Crathes Castle - £25
Explore this magnificent 16th-century castle, with its intricate maze of turrets, towers, oak panels and painted ceilings. Standing against a backdrop of rolling hills and set within its own glorious gardens, Crathes Castle is every inch the classic Scottish tower house. Outside, the walled garden is a wonderful jungle of history, split into eight sections that encompass every green delight imaginable: a sculpted topiary, soft herbaceous colours and modern exotic blooms. A guided tour is included on each visit.

Let the ‘The Aberdonian’ whisk you away as we take in some of the best that Scotland has to offer, both on train and off. Starting in Edinburgh before crossing the Forth Bridge, the train runs along the coast for much of its route making it an unrivalled way to experience Scotland. In Aberdeen there is a chance to explore this historic city, or take one of our off train excursions to a castle or distillery. On board the train you can sit back in comfortable seats and large windows through which to admire the scenery. Our friendly team will look after you, and if you choose to dine with us you will be treated to fine Scottish fare. Come and travel with Tornado for a special summertime day out in Scotland.

To book your journey:
a1steam.com /aberdonian or call 01325 488215

New dates in July, August, September 2020

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<th>Price</th>
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</thead>
<tbody>
<tr>
<td>Standard class</td>
<td>£99.00</td>
</tr>
<tr>
<td>First class</td>
<td>£159.00</td>
</tr>
<tr>
<td>Premier Dining</td>
<td>£235.00</td>
</tr>
</tbody>
</table>

To make a booking visit: a1steam.com /aberdonian or call 01325 488215
Step aboard from Yorkshire and North East England for a wonderful trip to the royal seats of Scotland, the beautiful and historic cities of Edinburgh and Stirling. Join us for this fabulous tour taking in the spectacular views along the East Coast Main Line as we travel north to Edinburgh and Stirling. The outward journey is hastened by heritage diesel traction before the return sees Tornado in charge of the train for the almost 250 mile journey south to York.

Starting from York, we head north to pick up passengers at Darlington before slowing for our Durham stop which affords wonderful views of the Norman Cathedral and the Castle. Continuing north we cross the Tyne and make our final pick up at Newcastle station. Our heritage diesel locomotive will then speed the train north with wonderful views of Lindisfarne and Alnmouth and the wider North Sea, before we slow for the curved passage over the iconic Royal Border Bridge.

We soon pass into Scotland with the railway running along the clifftops as we pass Grantshouse and Drem before travelling through the outskirts and on into the Scottish Capital. For those staying on board we head out west through Haymarket passing Murrayfield Stadium and on towards Linlithgow and Polmont where we diverge north and on to Stirling. The Wallace Monument and Castle are visible as we make our approach to the historic city. After a break of around three hours Tornado will be at the head of our train and will return us via the outward route.

Building Britain’s most powerful steam locomotive - it’s time to get on-board

In only five years the project to build Britain’s most powerful steam locomotive has over £3.3m pledged, almost 1,000 regular donors (Covenantors), engine wheelsets fitted & frames erected, over 150 steel casting delivered and machined, smokebox & cab fitted, the boiler ordered and cladding completed, tender under construction and the pipework and electrical systems are both underway – but there is still a long way to go.

With your support, the next 12 months will see the completion and delivery of the heavy motion, the tender and the cylinder block. We still need to raise a total of £5m to complete new Gresley class P2 No. 2007 Prince of Wales.

YOU can help to make this a reality sooner rather than later.
A P2 for the price of a pint of beer a week - become a regular Covenantor from only £2.50 per week.
To find out more visit www.p2steam.com, email enquiries@p2steam.com or call 01325 460163 today.
Alternatives. We are unable to provide meals that accommodate guests to not bring their own food or drink on-board. Meals comprise a series of fixed courses included in the tour price, and drinks are charged as "below). All other timings, your tickets). However these times are not guaranteed to stairs. We've no wish to frighten people away unfortunately do not permit access by customers in

Steam with Tornado to the home of The Beatles! Journey to the historic city of Liverpool where you can visit the iconic Cavern Club, the Royal Albert Dock with its many eateries and museums, or indulge in some retail therapy at Liverpool ONE.

Our return journey takes us on Stephenson’s Liverpool and Manchester railway and includes a stunning departure through rock cuttings as we climb to Edge Hill and we then make progress to

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TOURS GUIDE ROUTE MAP 2020

‘THE FEN AND FELLS FLYER’
Saturday 4th April 2020
Cambridge to Carlisle, crossing the Settle and Carlisle Railway

‘THE CUMBRIAN EXPLORER’
Saturday 2nd May 2020
Darlington to Carlisle
Take in the spectacular views from the Settle and Carlisle Railway and the rugged Cumbrian coastline

‘THE JORVIK EXPRESS’
Saturday 9th May 2020
A scenic trip from Liverpool to York

‘THE PENNINE EXPLORER’
Saturday 6th June 2020
Leicester to Carlisle crossing the Settle and Carlisle Railway

‘THE CALEDONIAN’
Saturday 18th July 2020
Birmingham to Glasgow passing through beautiful Lake District countryside

‘THE ABERDONIAN’
Six dates for Summer 2020 -
A scenic coastal trip from Edinburgh to Aberdeen

‘THE QUEEN OF SCOTS’
Saturday 12th September 2020
York to Edinburgh and Stirling along the East Coast Main Line

‘THE TICKET TO RIDE’
Saturday 19th September 2020
Liverpool from Darlington and Yorkshire - Tornado’s first tour to Liverpool

* Further diary dates will be announced in due course including joining stations in London and the south.