

THE MIKADO MESSENGER



2007 PRINCE OF WALES
Building Britain's Most Powerful Steam Locomotive

Welcome to edition No. 43 of *The Mikado Messenger*. The *Messenger* aims to provide a regular bulletin of news about the construction of No. 2007 *Prince of Wales*.

With the filling of The Cylinder Club and The Mikado Club, attention is now focussed of funding the larger motion parts through The Motion Club - you can find full details of how to help with this [here](#). Donations to the project have now passed £2m - over 40% of the £5m needed to complete the locomotive in 2021 - and pledges towards building the locomotive have now topped £3m. With Father's Day fast approaching, a Dedicated Donation would make the perfect present!

Although things have been relatively quiet at Darlington Locomotive Works recently, plenty of activity has been taking place at our supporting engineering firms and sub-contractors. Down in the West Country, South Devon Railway Engineering is making good progress assembling the wheelsets and Ian Howitt is machining dozens of components for the tender which is under construction by his firm.

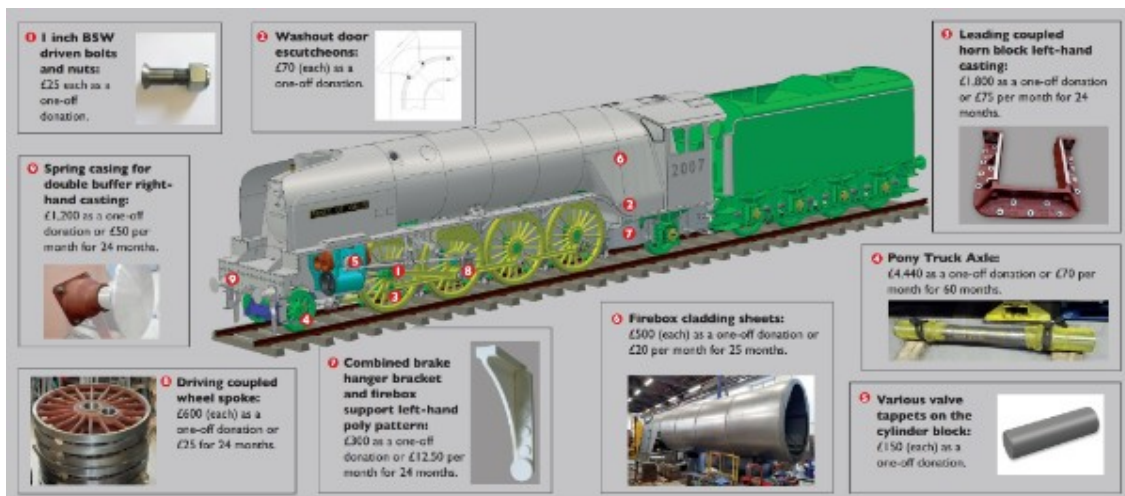


With two driving axles complete, a third is assembled at SDR(E) - *David Elliott*

HARNESS THE POWER OF STEAM THIS FATHER'S DAY

Sponsor a component and help to build Britain's most powerful steam locomotive. As the project to build No. 2007 *Prince of Wales* prepares for the wheeling of the engine, only five years after its launch, a new batch of components has been released for sponsorship in time for Father's Day on Sunday 17th June 2017. You can see full details of components available for sponsorship [here](#). Components sponsored through the Dedicated Donations Scheme range in price from one of over 1,000 driven bolts

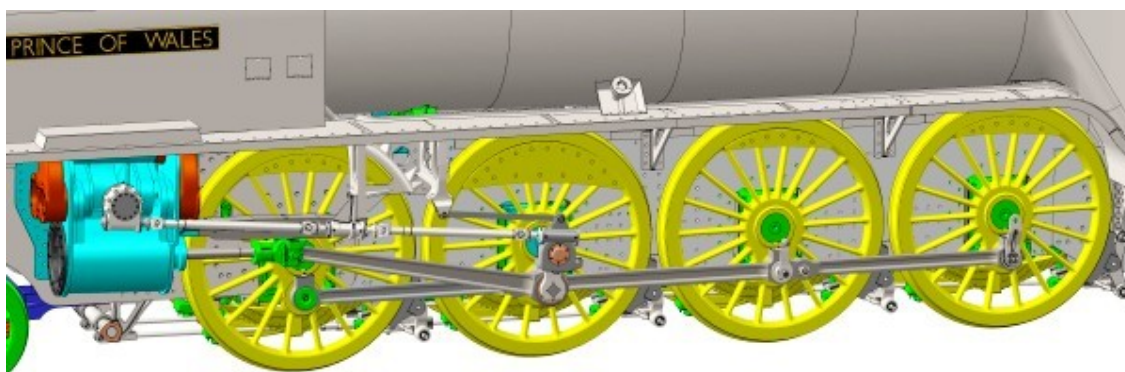
& nuts for £25, to the complete exhaust steam injector for £15,000. If you would like to sponsor a component on No. 2007 *Prince of Wales*, or you know of a business owner or company who may be interested in sponsoring an item, please contact us at dedicated.donations@p2steam.com.



FUNDRAISING UPDATE

THE MIKADO CLUB NOW FULLY SUBSCRIBED - Thanks to the generosity of our supporters, we can now announce the closure of The Mikado Club! We have hit our target and have received £250,000 in donations / pledges.

DO THE LOCO-MOTION WITH US - Last month the Trust launched The Motion Club, established to fund the manufacture of the heavy motion for No. 2007, setting the challenge of raising £210,000 from 175 supporters each donating £1,000 plus Gift Aid. In just over one month, the Trust has already signed up over 40 members of The Motion Club, potentially worth £50,000 including Gift Aid - a remarkable achievement thanks to the generosity of our supporters. If the project is to remain on schedule to complete No. 2007 by 2021, the Trust needs to order the motion in 2018. Following the success of The Founders Club (to get the project to the point of cutting the frames), The Boiler Club (to fund the construction of the boiler) and The Mikado Club (to wheel the locomotive), The Cylinder Club (to make the cylinder block), the Trust has decided to establish The Motion Club to raise an estimated £210,000 required to manufacture No. 2007's motion. You can find links to The Motion Club Leaflet and how to donate on The Motion Club [page](#).



The Lentz/Franklin valve gear drawn in CAD - David Elliott

MONTHLY COVENANTORS - Our monthly Covenantors continue to increase, with over 860 supporters donating from £10.00 per month. We would encourage anyone who is not yet a monthly Covenantor to join us to help us hit our completion date of 2021. For more information about becoming a Covenantor please click [here](#).

ENGINEERING UPDATE

SPECTACLE WINDOWS DELIVERED - Although the headline-grabbing wheelsets are away at South Devon Railway Engineering, work has continued at a fair pace at Darlington Locomotive Works, including the delivery of the spectacle windows and frames; the frames have been CNC machined from leaded gunmetal (bronze) castings by Durham Precision Engineering, the glazing retaining strips have been laser profiled from 6mm brass sheet by Holme Dodsworth of Newcastle. 20.5mm thick multiple laminated glazings with an anti-spall coating on the inside have been made to comply with current railway group standards by Romag at Consett. These components have been sponsored as part of our Dedicated Donation scheme - have you sponsored a component yet? If not, find out how to do so [here](#).



The spectacle windows at DLW - *David Elliott*



Progress on the cladding - *Mandy Grant*

ENGINEERING PROGRESS TO DATE:

- Frame plates for engine and tender rolled and profiled; engine's frames erected at Darlington Locomotive Works; all major engine frame stays, brackets, horn blocks, axle boxes and buffers cast (44 in total); over 1,000 fitted and driven bolts ordered and delivered, approximately 800 now fitted to the frames
- All 20 wheels for engine and tender cast and proof machined; roller bearings for all engine and tender wheelsets and engine axles (including crank axle), tyres and crank pins delivered, tender axles order, tyres delivered and first wheelset complete. All components for assembling engine wheelsets now at South Devon Railway Engineering
- Preliminary discussions held with boiler manufacturers and forged foundation ring corners

manufactured and machined; start made on boiler fittings with castings for combined injector steam and delivery valves

- Study into ride and suspension completed using rail industry standard Vampire® software; finite Element Analysis completed on re-designed crank axle to ensure locomotive complies with modern standards; assessment and notified body appointed to oversee certification - first site visit made
- Cab erected and cab side window frames fitted; engine footplating and splasher kits delivered and permanently fitted to frames
- Smokebox door pressed details made and door completed, door frame manufactured, smokebox delivered and erected; chimney cast and fitted
- Crosshead castings received
- Boiler cladding assembly jig built, cladding crinolines and hoops rolled and fitted to jig, cladding sheets procured, rolled and being fitting to the jig
- Tender frame construction under way, axlebox and other tender castings ordered from William Cook Cast Products
- Nameplates and chime whistle delivered.

£2M DONATED, £3M PLEDGED!

£2m donated and £1.7m spent of £5m target - Our project to build Gresley class P2 No. 2007 *Prince of Wales* continues to make solid progress on all fronts and we are still on target to complete the new locomotive by 2021 provided we can keep up the current pace of income growth. A huge thank you to all our supporters who continue to give most generously to the project.

Pledges towards building No. 2007 *Prince of Wales* have passed £3m just four years after the frames were rolled at British Steel's plant in Scunthorpe. Public interest in seeing a new Gresley class P2 become a reality sooner rather than later remains high and 860 people have already signed up to the 'P2 for the price of a pint of beer per week' (£10 per month or more) Covenant scheme since its launch in March 2014. The average monthly donation is now around £17.30 per Covenantor (including Gift Aid) and the projected monthly income for our P2 project from the monthly Covenant scheme is now running at 109% of that of *Tornado* - a remarkable achievement in such a short period of time and all thanks to the generosity of our supporters. What is even more striking is that only 28% of A1 Covenantors (36% of P2 Covenantors) are regular donors to both locomotives, meaning that the overwhelming majority of the funds are being given by new supporters of the Trust.

As you will have read in recent issues of *The Mikado Messenger*, we continue to be impacted by the incorrect machining of the keyways in the plain coupled axles meaning that we have had a long wait for the new axles to be supplied from South Africa. Although this has delayed the process of wheeling the frames of No. 2007, work is now well underway at South Devon Railway Engineering and extraordinary progress on other fronts means that this will have no effect on the overall timetable and Darlington Locomotive Works has been far from idle over the past few months.

There are still a considerable number of wheeling-related Dedicated Donations still available for sponsorship, ranging from a driving wheel spoke at £600 (or from £25 per month for 24 months) to a Cartazzi axlebox casting at £1,300 (or from £50 per month for 26 months) to and driving wheel casting & proof machining at £12,000 (or from £200 per month for 60 months).

For more information on how you can help to build Britain's most powerful steam locomotive visit www.p2steam.com, email enquiries@p2steam.com or call 01325 460163.

AN AUDIENCE WITH THE *PRINCE OF WALES*

We will be holding a series of presentations on the project to build new Gresley class P2 No. 2007 *Prince of Wales*. Each presentation will feature key Trust personnel including Mark Allatt and David Elliott and will cover the background to the project, progress to-date, future plans and details of how to get involved. We would encourage you to attend one of these Roadshows and bring along some friends and family members who would be interested in hearing about the project. The two hour

presentation will run from 11:00hrs to 13:00hrs on each of the days listed below and are open to existing supporters and interested members of the public:

ROADSHOW DATES FOR 2018:

- Saturday 9th June 2018 - Glasgow Royal Concert Hall, Glasgow
- Saturday 1st September 2018 - Doubletree Hilton Hotel City Centre, Bristol
- Saturday 8th September 2018 - Derby Conference Centre, Derby
- Saturday 3rd November 2018 - Manchester Conference Centre, Manchester
- Saturday 8th December 2018 - Hilton Leeds City Hotel, Leeds.

For more information on the P2 roadshows visit www.p2steam.com, email enquiries@p2steam.com or call [01325 460163](tel:01325460163).

PRESENTATIONS

If any railway society - or indeed other interested group - would like a presentation on the project they should contact us by email enquiries@p2steam.com

EASYFUNDRAISING

Now is the time of year when many people start thinking about booking a summer holiday. Why not help the Trust at the same time by doing your online searches through EasyFundRaising, painlessly raising cash for The A1 Steam Locomotive Trust every time you spend online? You can find details of how to do this [here](#).

VOLUNTEER

As ever we are looking for more volunteers. It takes a lot of people to both keep *Tornado* on the main line and also to build *Prince of Wales*. There is always so much more that we can achieve with the right volunteers with the right skills and can-do attitude. Please email enquiries@p2steam.com if you think you can help.

For more information on the project to build Gresley class P2 No. 2007 *Prince of Wales* please visit www.p2steam.com, email enquiries@p2steam.com or follow us on Facebook, Twitter and LinkedIn.

TRAVEL WITH *TORNADO*

For more information on *Tornado's* tours and where you can see her, click [here](#).

The Trust respectfully requests that anyone wanting to see *Tornado* follows the rules of the railway and only goes where permitted.

OPEN DAYS AT DARLINGTON

We hold public open days at Darlington Locomotive Works on the first and third Saturday of every month. During April through to September we are open 10:00hrs to 16:00hrs, October through to March, we are open 11:00hrs - 15:30hrs.



Facebook



Twitter



Website



Email

Copyright © 2018 The A1 Steam Locomotive Trust, All rights reserved.

Our mailing address is:

The A1 Steam Locomotive Trust, Darlington Locomotive Works, Hopetown Lane, Darlington. DL3 6RQ