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28th June 2021, revised 21st July 2021, 5th November 2021,

FAO – Dennis Garside

Dear Mr Garside

Barton le Clay, St. Nicholas Church – Tower Clock

Further to our engineers recent site visit to inspect the above clock, we are pleased to provide the following information & suitable quotations.

The clock takes the form of a cast iron flatbed movement with hour strike driving the single dial with a gravity escapement with pendulum action & was made by T. M. Hartley of Dorridge in 1919. It's been converted to automatic winding to remove the need for manual winding.

On arrival the clock was stopped due to the time side auto winding weight having run down, this was caused by either the unit failing to wind or over winding due to the micro switches not working correctly.

We are experiencing similar problems with systems of this design & age on many other sites, it is difficult to obtain replacement motors, switches & affect suitable repairs.

We therefore feel the best way forward is to install a new auto winding system.

The proposed automatic winding units would be situated below the clock movement with the drive being via the barrel arbors, which meets the current DAC code of practice. The weights would operate within the clock room as at present.

The automatic winding units manufactured by the Cumbria Clock Company are the only units to come complete with a ten-year guarantee.

After the winding units have been fitted it must be realized that the clocks time keeping is still regulated by the pendulum. Therefore it will still be necessary for

somebody to attend to the regulation and undertake the summer and wintertime changes.

We can if necessary fit an auto-regulation system to undertake these procedures if it proves difficult to find somebody to do so, the cost is shown in quotation 2a.

The cost to re – auto wind the time side only is shown in quotation 1 & to re-auto wind the time & strike is shown in quotation 2.

It was also noted that the hammer connecting wire is too tight, placing pressure on the strike train, this needs to be adjusted. There is also excessive movement in the time side third arbor, which requires a spacer to reduce this; both are included in the above quotations.

We are concerned that another clock company as made many visits to site & been unable to rectify the problems over the last 18 months, there is definitely a problem with the auto winding system & if funds were available would recommend replacing both units. Our engineer felt the movement was in good order, apart from the minor adjusts described above.

Following this work we would recommend that the clock be serviced annually the cost is shown in quotation 3.

The strike operates on a 24 hour basis which we now understand may cause problems during the night. This could be overcome with the installation of one of our night silencer systems, the actuator unit would be located under the movement, connected to the strike lever by a short length of cable. This would then have a controller, which would be set to suit local requirements i.e. last strike at 11pm first strike at 7am.

The cost to install a night silencer system is shown in quotation 4.

We are pleased to provide the following quotations.

Quotation 1 – Re Automatic winding of the time side

Manufacture 1x 240volt mains epicyclic automatic winding units.

Attend onsite; land weights & dismantle the existing auto wind system.

Install automatic winding units and hang weights.

Adjust the hammer connecting wire & check the hammer is working correctly on the bell.

Dismantle the time side third wheel arbor & fit a spacer to reduce the amount of movement in the bearings.

Test and leave in full working order.

For the sum of ... £2,480 [Two Thousand, Four Hundred & Eight Pounds] net plus VAT.

Quotation 2 - Re Automatic winding of the time & strike sides

Manufacture 2x 240volt mains epicyclic automatic winding units.

Attend onsite; land weights & dismantle the existing auto wind system.

Install automatic winding units and hang weights.

Adjust the hammer connecting wire & check the hammer is working correctly on the bell.

Dismantle the time side third wheel arbor & fit a spacer to reduce the amount of movement in the bearings.

Test and leave in full working order.

For the sum of ... £4,460 [Four Thousand, Four Hundred & Sixty Pounds] net plus VAT.

Quotation 2a – Auto Regulator

Manufacture, an auto regulator system to provide accurate time keeping & automatic BST/GMT alterations.

Attend on site & install

For the sum of ... £1,980 [One Thousand, Nine Hundred & Eighty Pounds] net plus VAT

The above quotations excludes the provision of a 13amp socket for each auto wind unit, please note the units are fused at 5amps, we propose using the double socket to the right hand side of the movement.

An additional supply will be required for the auto regulator.

Quotation 3 – Annual Service

Our annual maintenance visit consists of attending onsite once a year, inspecting the clock installation and checking that it is safe, and that there are no apparent signs of wear or areas of concern that may cause problems in the following twelve months.

We will then clean and lubricated the clock movement and all other accessible parts within the building including the dial motion works, bevel gearing and the universal joints. We will also check the bell hammers and bell cranks lubricating and cleaning

where necessary. Any adjustments to the hammer wires or hammer check springs will be undertaken.

Once new steel weight lines and hammer wires have been fitted by us, they will be replaced free of charge should they break whilst the clock is under our care.

We will attend as soon as possible once notified of a breakdown and correct the fault free of charge. However, if the fault is caused by normal wear and tear, vandalism or misuse it may be necessary for us to charge for the visit.

If we have any areas of concern regarding your clock installation we will supply a report and necessary quotations for the work free of charge and without obligation.

The agreement does not include provision for making the Summer/Winter time alterations, or for the regulation and correct timekeeping of the clock, which should be the responsibility of a local person. We will, however, if asked give instruction on how to look after the clock on a week-to-week basis, again free of charge when we are in the area.

The cost for the above service would be ... £185 [One Hundred & Eighty Five Pounds] net plus VAT.

If you would like us to look after your clock please get in contact, no official form of contract is exchanged and this quotation, together with your letter of acceptance, is considered sufficiently binding.

The Annual Maintenance Service Agreement will remain in force until terminated by either party.

Quotation 4 – Hour strike night silencer system

In our works to manufacture a night silencer system including linear actuator pull off unit, bracket & timer controller.

To attend on site, install & connect into a fused spur installed by others & to set to suit local requirements.

For the sum of £1,450 [One Thousand, Four Hundred & Fifty Pounds] net plus VAT

Exclusion

The provision of a 5amp switched fused spur near to the strike side of the clock movement.

Price Maintenance

These prices are firm for a period of six months from the date of this letter and thereafter, subject to price increase to accord with increased costs of labour, materials and travelling costs if necessary.

Guarantees

All new parts made by us carry our ten-year guarantee against failure through faulty workmanship or materials. Repair work is similarly guaranteed for a period of twelve months. Suspension springs and electrical or electronic components of units not of our manufacture, are specifically excluded from our guarantees, but carry the manufacturers own warranty.

Terms Payment

30% with orders over £ 1,000.00, the balance within 14 days of the date of invoice following completion of the work.

In some cases progress payments may be asked for.

All goods remain the property of the vendor until full payment has been made and any relevant cheques cleared. Risk passes on delivery.

The above quotation is exclusive of Value Added Tax at 20%.

The Cumbria Clock Company Ltd complies with the “Code of Practice for Turret Clock Work” produced by the Clocks Advisers Forum of DAC Clock Advisers in collaboration with Turret Clock Companies and the Church Buildings Council.

Trusting the above information is helpful to you, but in the event you should have any questions to ask, please do not hesitate to contact us.

We assure you of our best care and attention, at all times and look forward to hearing from you in the near future.

Yours sincerely

Keith Cotton.

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