

Contents

Introduction	1
Questions and answers.....	2
Who is supplying what element of the kit?	2
How should I order the Roundhouse parts – individually or as a kit of parts?	3
If I decide to buy the Roundhouse parts individually, what parts do I need?	4
Do I need to order the Roundhouse parts or the boiler now?.....	4
Will I have to make the boiler or gas tank?	5
How will the boiler be fired?.....	5
What kind of valve gear will be used?.....	5
What are the principle dimensions of the loco?	5
Will detailed drawings be available to make the parts?.....	5
Will I need special equipment?	5
Will I be able to spread the cost of the project?	5
Is it a scale model?	5
Can the loco be radio controlled?	6
Does the kit include the items needed to make it radio controlled?	6
What if I am building a manually controlled loco ?	6
What is the minimum radius that the loco can negotiate?	6
Is the locomotive re-gaugeable?.....	6
Will I have to silver solder any pipe work?	6
Will spares be available?.....	6
What happens if the kit of Association supplied parts is damaged in transit?	6
Will there be a version available with a spectacle plate?	6
Will there be a meths-fired version?.....	7
Can anyone join the Project?	7

Introduction

This is a refresh of and expansion to an article written by Keith Dyer, Victory's designer. It first appeared in November 2010 SMT and contains a number of answers to questions posed by members as they have re-registered for the project. I've also added the answers to some additional questions that have been raised that weren't covered in the original article.

At the time of writing (28th October 2013) 150 members have registered an interest for 160 kits.

The prototype is a 7-tonne 0-4-2 Decauville currently running on the Bredgar & Wormshill Railway in Kent.

Questions and answers

Who is supplying what element of the kit?

Suppliers and the components being supplied are:

Supplier	Components
Technical Tubes	Laser cut frames
Grainge & Hodder	Etched brass superstructure
GB Boiler Services	Boiler
Richard Luckman	Casting: Sandbox Handrail stanchions Whistle Sand pipes
Fred Pope Engineering	Machined parts: Driving and pony wheels Pony wheel axles (long enough for 32m or 45mm gauge) Bushes (for the connecting and coupling rods) Axle bearings Setscrews to secure the pony wheels to the axles Frame spacers
Roundhouse Engineering	Smokebox with fittings Cylinders (pair) Walscherts Valve Gear Regulator - R/C or manual Lubricator Brass Dome Boiler Mounting Bracket Gas Burner (internal) Safety Valve with filler plug Gas Tank with fittings (including regulator) Pressure Gauge + Syphon Tube and banjo bolt Axle Crank assembly (x2) + crank pins Stainless Steel Superheater Quick Link & Rod (x2) to connect to servos for R/C operation Heavy duty push rod connectors

Note that the only suppliers with whom you need to place orders direct are **GB Boilers** and **Roundhouse**. Their contact details are:

	GB Boiler Services	Roundhouse Engineering
Postal address	86 Knightsbright Avenue Bedworth CV12 8DP England	Units 6-9, Churchill Business Park Churchill Road Wheatley Doncaster DN1 2TF England
Phone number	02476 733461	01302 328035
Email address	gb.boilers@sky.com	sales@roundhouse-eng.com

Both suppliers are accepting orders now and you are advised to place orders with them promptly – as you see from the comments in the introduction, there is considerable interest in the kit and suppliers will supply in batches. **To be clear, the Association will not place these orders on your behalf – you need to place the order yourself and pay the suppliers direct.** Both suppliers will accept orders and payment over the phone and both accept major credit cards.

How should I order the Roundhouse parts – individually or as a kit of parts?

Roundhouse will supply either as a kit of parts for the manual or radio controlled version, or individually if so ordered. **If ordered as a kit**, Roundhouse is supporting the project and the Association as follows:

- Should their prices rise in the New Year, they will maintain 2013 prices for the elements of the kit
- They will **in addition** apply a 5% price reduction to the sum of the parts in the kit

This will **only** apply if a kit of parts is ordered and is entirely at Roundhouse’s discretion. If individual components are ordered then they will be supplied at the prevailing cost.

There are two types of kit which can be ordered which have the following Roundhouse part numbers and costs including VAT:

Part number	Description	Cost
VKRC	Victory kit of parts – radio controlled	£597.19
VKM	Victory kit of parts – manually controlled	£609.23

The cost of delivery needs to be added to the above and will obviously depend on where in the world the parts are being shipped to.

Please note that the RC kit does not contain servos or any other electronic parts needed to complete installation of radio control. Please also see this answer:

[Does the kit include the items needed to make it radio controlled](#)

If I decide to buy the Roundhouse parts individually, what parts do I need?

The list of Roundhouse parts is as follows. You will need **all** of the parts in the table headed **Victory Basic Kit**. The tables headed **Radio Control Parts** and **Manual Control Parts** list the parts needed to add **either** radio **or** manual control. Select the parts applicable to the type of control which you wish to fit.

Prices are correct as of 21st October 2013.

Victory Basic Kit – all control types				
Part no.	Description	Qty	Price	Comments
WVG	Short Walschaerts valve gear w/o reversing lever	1	£101.11	Connecting, coupling and eccentric rods will not be used
C	Cylinders (pair)	1	£138.49	
SS	Stainless superheater	1	£18.92	Slightly longer length than that fitted to a Billy
BPG	Basic series pressure gauge & syphon	1	£35.80	
LUB	Lubricator (Billy)	1	£16.07	
SV+FP	Safety valve & filler plug	1	£21.96	
BD	Brass dome (Billy)	1	£15.00	
ACA	Axle crank assembly	1	£15.85	
ACA+CPP	Axle crank assembly with plain c/pins fitted	1	£18.35	
BMB	Boiler mounting bracket long + screws & washers	1	£8.04	With screws & washers
GBI	Gas burner internal (FG)	1	£35.90	
GTWF1	Type A gas tank complete	1	£81.18	With assembled gas pipe 95-100mm long
BSBF	Banjo bolt steam turret, single, complete	1	£9.18	
CSBWF	Continental smoke box with std. Dart, no footplate	1	£79.75	With screws & washers

Radio Control Parts – in addition to Victory Basic Kit parts				
Part no.	Description	Qty	Price	Comments
SPL	Servo post long	4	£1.00	
REGR	Regulator R/C steam, short	1	£21.74	
QL	Quick link and rod	2	£2.74	
PRC	Heavy duty push rod connector	2	£0.90	

Manual Control Parts – in addition to Victory Basic Kit parts				
Part no.	Description	Qty	Price	Comments
REGM	Regulator manual steam, short	1	£21.74	
RL	Reversing lever	1	£21.21	
QL	Quick link and rod	1	£2.74	

Do I need to order the Roundhouse parts or the boiler now?

Not unless you wish to do so. Both GB Boilers and Roundhouse are accepting orders and plan to build in small batches. If you order now you will have some certainty as to when these components

will be available. If you order later, say after you receive the Association elements of the kit (planned for late February 2014), then you will take your place in their order book at that time.

Will I have to make the boiler or gas tank?

No. The boiler will be made and supplied by GB Boilers and the gas tank will be supplied by Roundhouse. Both will come with full certification. Principle dimensions of the boiler and the gas tank will be available for anyone who wants to build their own. Remember that if you build your own boiler or gas tank they will need testing to the applicable standards.

How will the boiler be fired?

It will be gas fired with a central flue within the boiler.

What kind of valve gear will be used?

Simplified Walschaerts, with most components coming from Roundhouse and eccentric and valve rods provided in the Association element of kit.

What are the principle dimensions of the loco?

Length over couplings: 300mm; height to top of whistle: 165mm; width 115m.

Will detailed drawings be available to make the parts?

No. Finished parts will be available from the Association and suppliers but there is no plan to make the design material available to members.

Will I need special equipment?

No, but you will need some tools, including the following: files including needle files, drill and bits (sizes will be advised with each stage as required), soldering iron or mini blowtorch (gas-operated, uses the same gas as our locos), small hammer, screwdriver, toolmaker's clamps, square, spanners and Allen keys (sizes will be advised). Special folding equipment will not be required as the metal etchings will have fold lines or slots to assist with folding. Where steel parts have to be folded then jigs will be supplied to ensure that the forming is correct.

Will I be able to spread the cost of the project?

Yes, to a degree. The Association elements of the kit will be supplied as one. To build a rolling chassis so that it can be tested on compressed air will require a subset of the parts supplied by Roundhouse. The next stage, making and testing steam connections will require the boiler. If you have already bought all the suggested Roundhouse parts then you will have all the parts for the third stage, to assemble the superstructure. If you make a radio controlled version of the loco, you will need to obtain and install R/C equipment at this stage.

Is it a scale model?

Not exactly. The locomotive is designed so that a wide range of members can build it and feel proud of their achievement on completion. This means using a number of off-the-shelf items, including the smokebox. This dictates the diameter of the boiler so that the model is scaled up to suit. While this may not appeal to some people it does allow for a running time of around 25-30 minutes, which will please many. Proportionally it will be correct and size-wise the loco is slightly smaller than a Roundhouse 'Billy'.

Can the loco be radio controlled?

Yes it can. The loco is designed for the equivalent of Hitec HS-81 servos, fitted to Roundhouse servo posts, two per servo, one servo on each side of the cab. Other types of servo may be used but the fittings may need to be modified to suit. The receiver can be fitted inside the right hand side water tank. A Planet R6M 2.4Gm was fitted in this location in one of the prototypes. The batteries can be fitted in the left hand water tank – 4 x AAA in a Maplin JG79L holder were fitted to one of the prototypes. The switch and battery charging socket can be fitted to the servo support bracket on the left hand side of the cab.

Does the kit include the items needed to make it radio controlled?

The only parts provided are amongst the Roundhouse parts, namely 4 x servo mounting posts, 2 x quick link & rod, 2 x push rod connectors and a regulator suitable for radio control.

What if I am building a manually controlled loco ?

If a manually controlled loco is being built, the parts listed above for a radio controlled loco are replaced a manual regulator, reversing lever, quick link and rod, again from Roundhouse.

What is the minimum radius that the loco can negotiate?

The loco has been designed to negotiate LGB R1 track, which is 600mm radius, 45mm gauge. It will also negotiate the equivalent radius curve in 32mm gauge. If the loco will be used on very tight curves, builders should take care to ensure adequate movement on their selection of couplings.

Is the locomotive re-gaugeable?

Yes, it will. The wheels slide on the axles and are locked with grub screws. A jig will be supplied to set the positions of the wheels. The pony truck will be adjustable also with the aid of two spacers for 45mm running.

Will I have to silver solder any pipe work?

No. All pipes and the superheater will be included in the parts supplied by Roundhouse.

Will spares be available?

A spare set of valve and eccentric rods will be included in the cut metal package. The design will include bronze/brass bushes on all coupling, connecting and eccentric rod joints so that wear is minimised. It is not planned that other spare parts will be available, but please read the next question below.

What happens if the kit of Association supplied parts is damaged in transit?

We are going to great lengths to minimise the opportunity for this. The Association supplied parts will be supplied in a strong cardboard box with foam inserts. However, if loss or damage does occur, replacement will be available but on a whole unit basis, i.e. a whole laser cut sheet, a whole etched sheet. We may ask the affected member to return the defective part in case it can be used to satisfy a member who needs a specific spare part from the laser cut or the etch. Clearly we hope that no damage occurs but if it does we will try to achieve some good from it.

Will there be a version available with a spectacle plate?

No. The design will be as the locomotive looks today and if you need to add alternative features then that will be down to you.

Will there be a meths-fired version?

No, there is no intention of producing a meths fired version.

Can anyone join the Project?

No, this project is available to current members of the 16mm Association only.