

1/35 German Gr Covered Wagon



contains 1 highly detailed and accurate model

142 resin parts

180 PE parts

+ plastic parts and wires needed for assembly

decals for one wagon

glue and paints not included

suitable for advanced modellers

keep safety rules for work with resin

instructions and references on CD



No.35116

WWW.LZmodels.com

Made in EU

Keep safety rules when working with resin.

For safety reasons, and due to the complexity of construction, this kit is recommended only for advanced modellers.

The kit contains small parts, keep it out of the reach of children.

Glue and paints not included

Contains 142 resin parts, 180 PE parts and plastic parts and wires needed for assembly. Decals for 3 wagons

Another of the most known and widely used German wagons. With some changes of design produced in thousands pieces since 1927, with or without brake cab, these wagons were used widely in German Reichsbahn service to transport goods and often animals as well. During the WWII they became an important part of any military train heading the battlefield, filled with supplies or soldiers, and they were also used to transport all enemies of the nation to concentration camps. Here is one of these wagons, they could vary in small details, depending on manufacturer and year of production.

Kit contains many thin, but larger or long parts, some can warp or bend in the box during time period, especially if stored in hotter conditions. It is very easy, but also necessary to fix these before build - simply put them in hot water shortly and let them cool on flat surface like glass. Another way is to lay them on flat surface first and heat them up using a hair dryer.

A22x2

A23x2

A24x2

A26x4

A27x4

A28x2

A30x4

A29x4

A31x4

A33

A25x8

A32

A34

A35x4

A36

A8₂₊₂

A7x4

A9 x2

A10x4

A16 7+7

A11

A12

A15x2

A13x4

A14x4

A19₂₊₂

A18x4

A17x4

A20x2

A21x2

A39x2

A40x2

A37x4

A41x2

A42x2

A38x8

A43x2

A44x4

A45x2

A6₁₊₁₊₁

A2x2

A1x2

A46

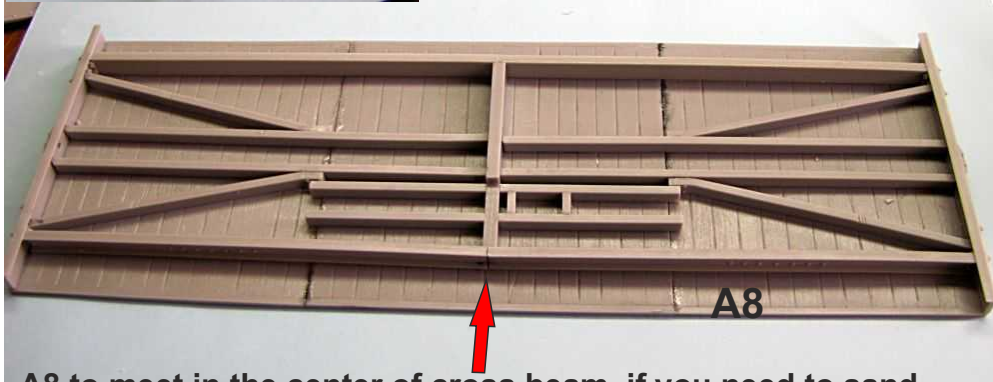
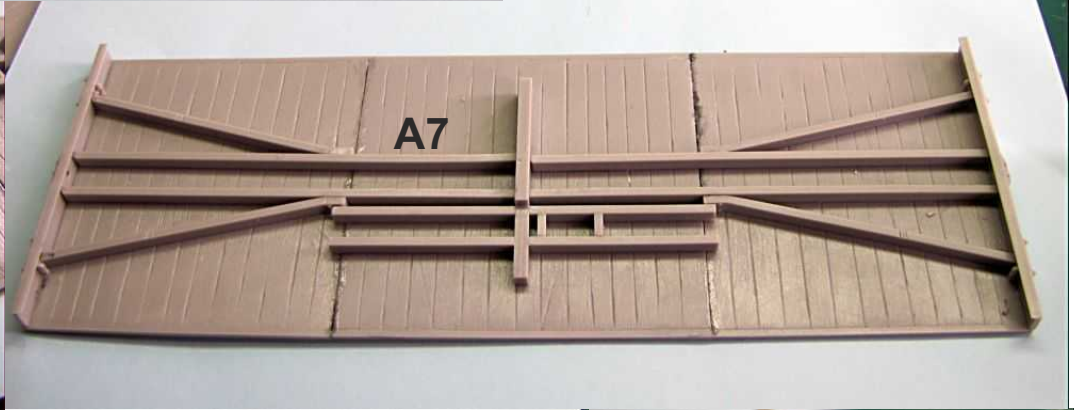
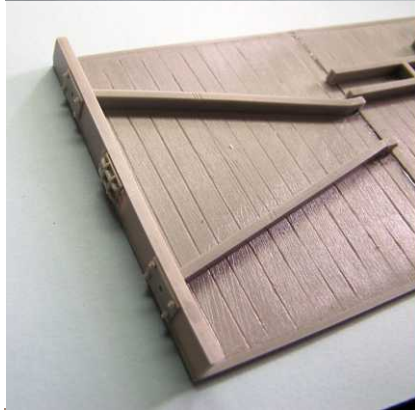
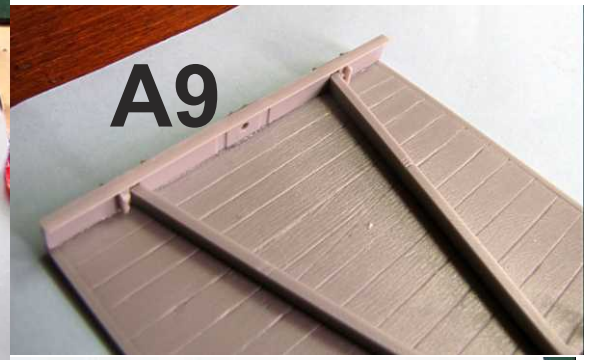
A5x2

A3x2

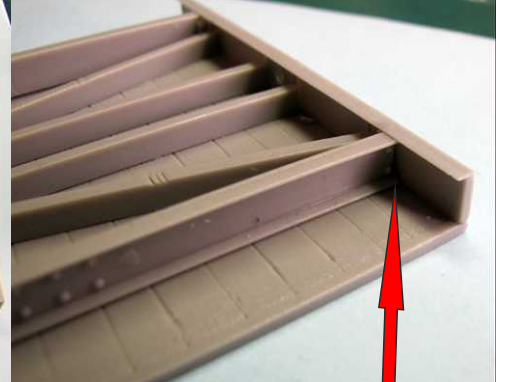
A4x2

Assembly:

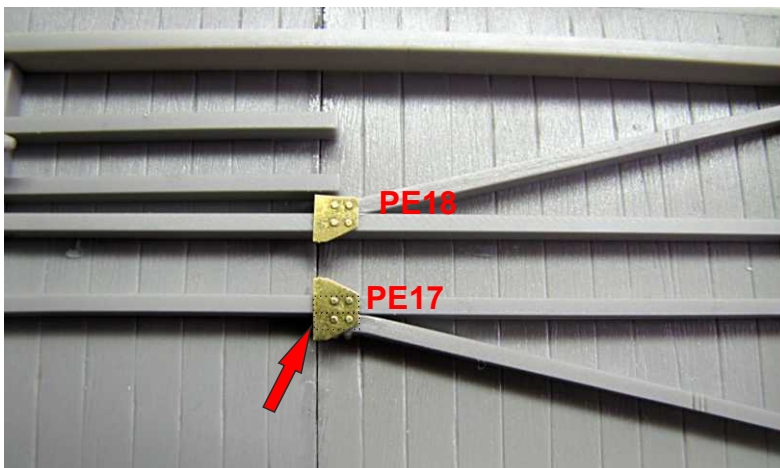
Assembly is easy, but it is very important to keep eye on right angle in any corner, also perfectly flat working surface is a need. Parts A7 and A8 are a bit longer than needed - because of resin and silicone mold shrinkage to avoid fit trouble, these parts can be sanded to their length required



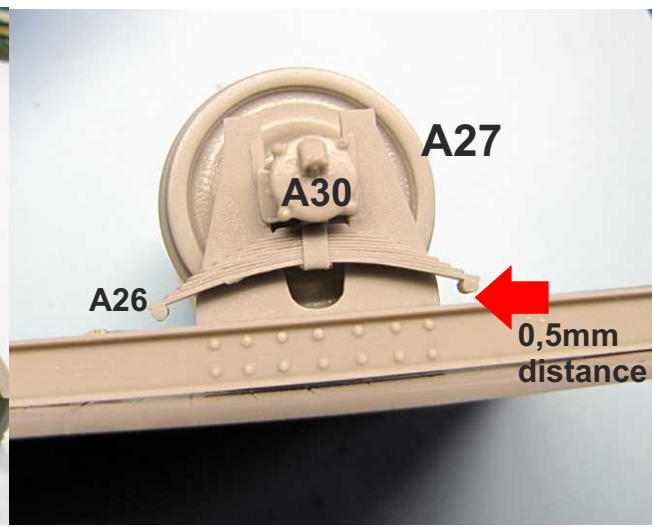
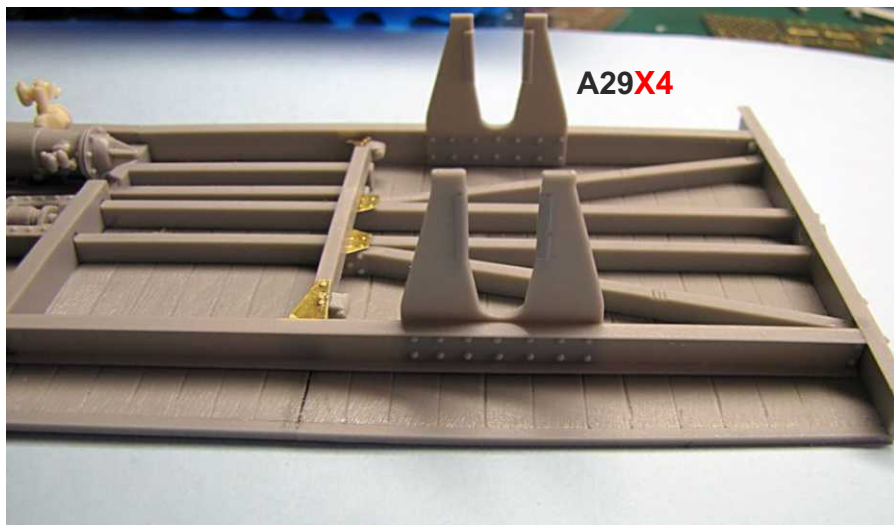
A8 to meet in the center of cross beam, if you need to sand A8 to adjust their length, sand these ends, not the end with rivets!! Do not glue A8 to the floors until you have assembled all cross beams!!!! Glue just their ends to A9 and center cross beam



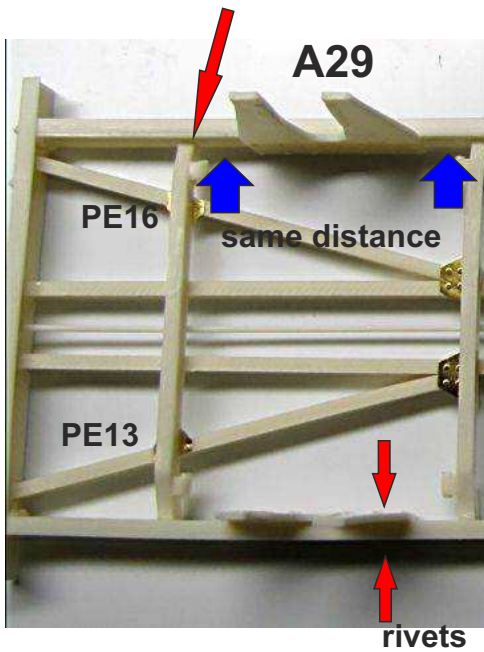
2 rivets at the ends of A8 to face parts A9.



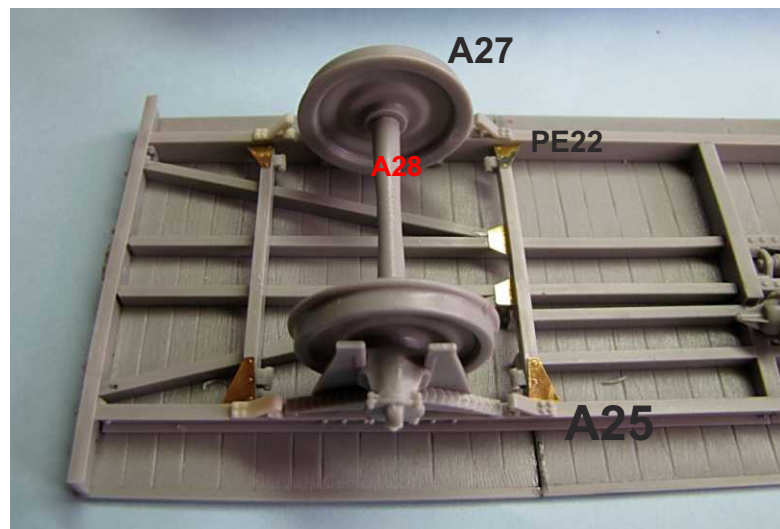
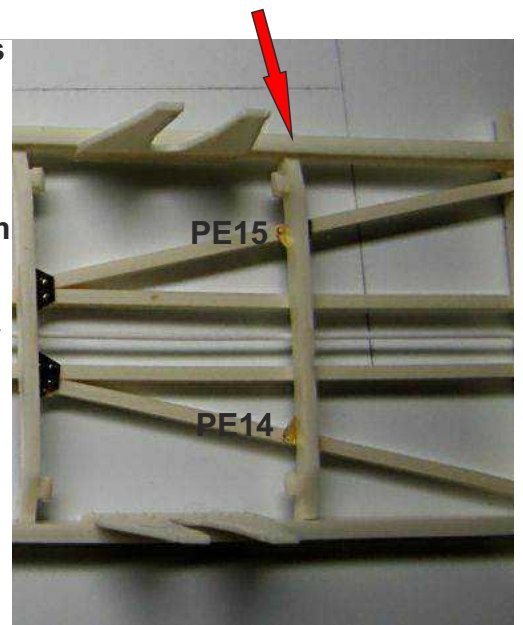
Add PE17+PE18 on both sides, add inner A10 on both sides and PE22

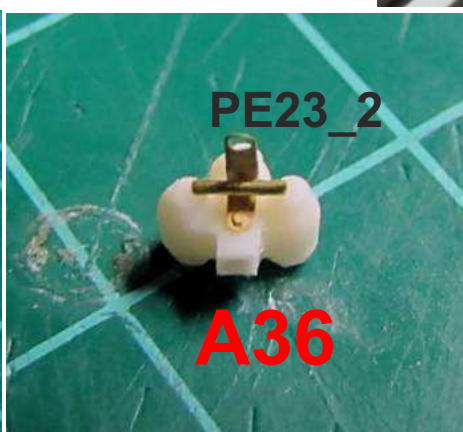
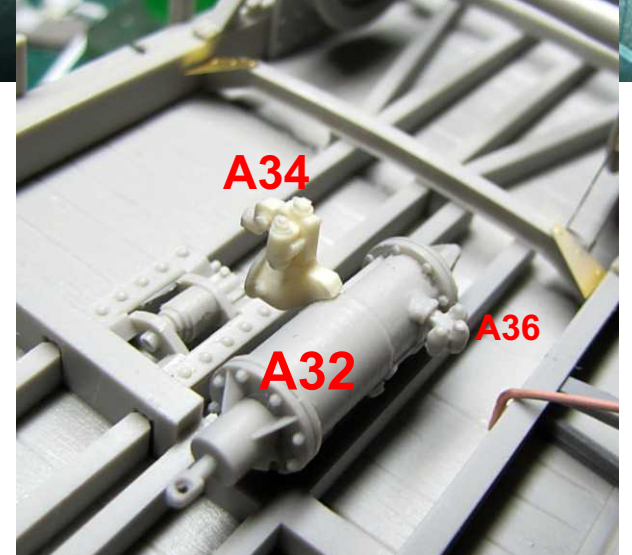
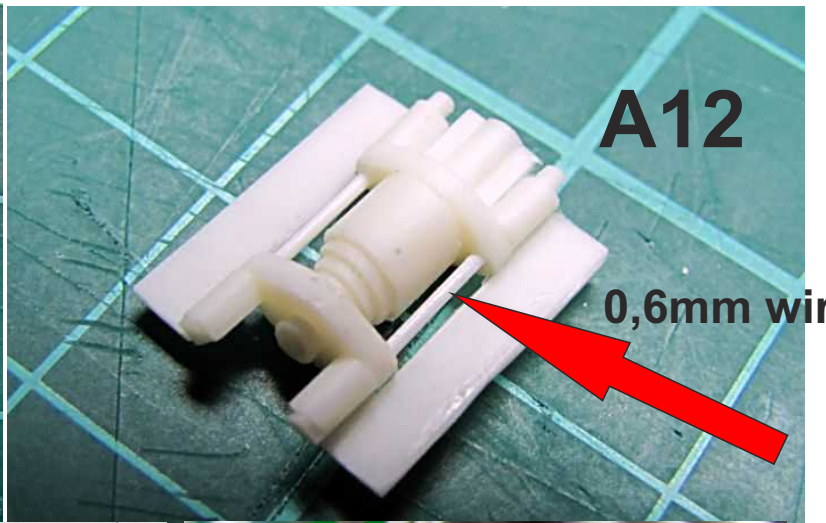
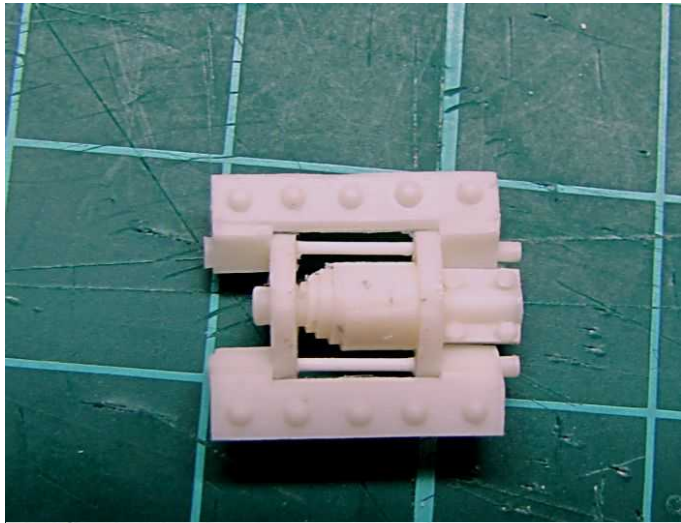
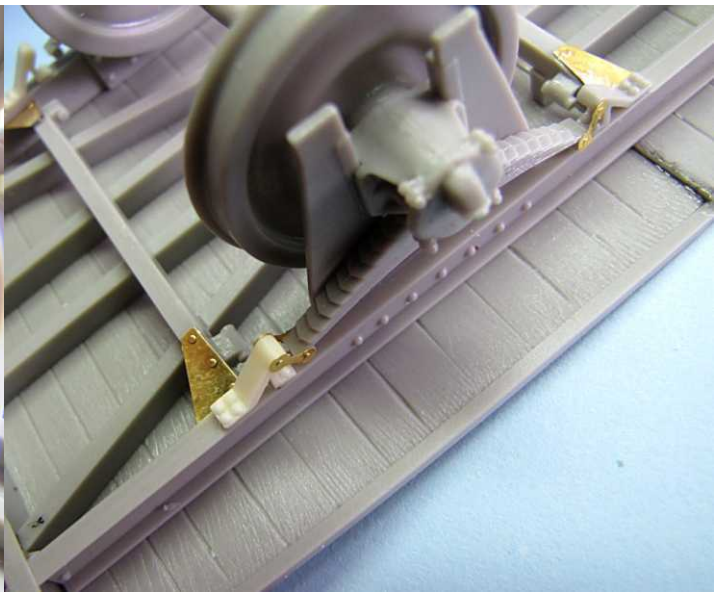
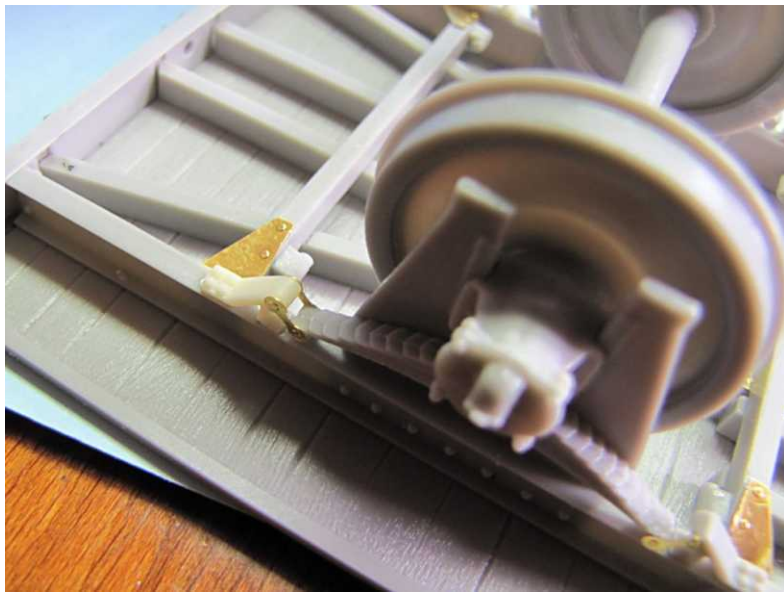


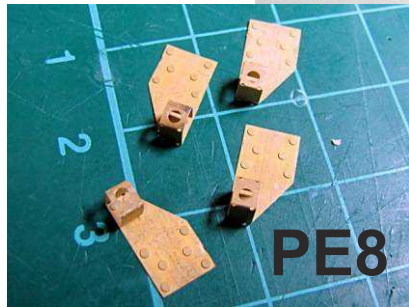
Assemble 4xA29 - rivets against rivets on A8, complete 2 piece of axles A27 with 2 wheels A28 (you might need to adjust holes in wheels with drilling bit), slide bearing housings A30 into A29 and place spring A26 - there should be 0,5mm gaps between spring ends and A8, then secure all parts with glue and repeat on opposite side and the other side of the wagon. Do not glue axles with wheels yet for better access!!!



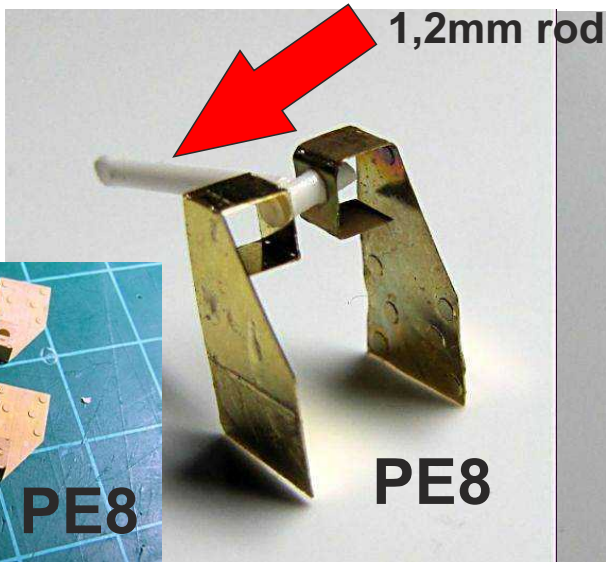
Assemble outer crossbeams A10 in the same distance from A29 like A10 glued earlier - join A10 with A8 first, then place PE13-PE16 between them and fork beam and finally secure all parts with glue.
Glue all A8 to the floors now
Add all PE22
Add all A25
Add all PE7





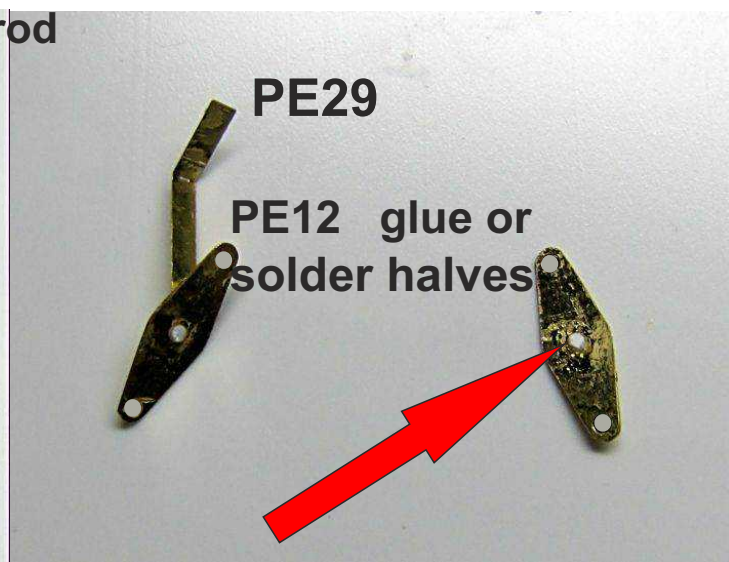


PE8



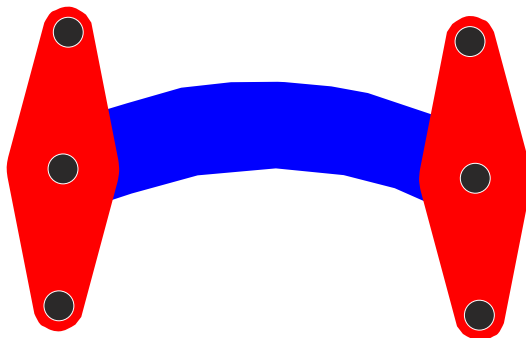
1,2mm rod

PE8



PE29

PE12 glue or solder halves



1,2mm rod about 1mm long used for all pins, you can glue them in holes or melt their ends with lighter

position of the brake arms should be like this for further fit



PE12

PE18

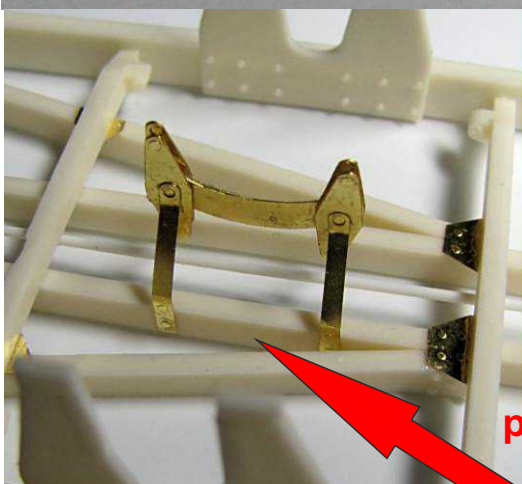
PE12



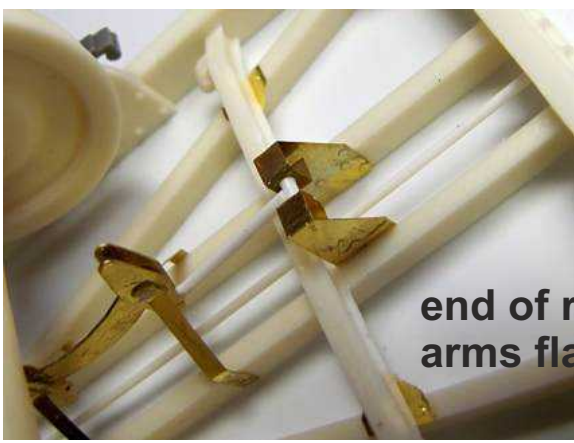
PE29

PE12

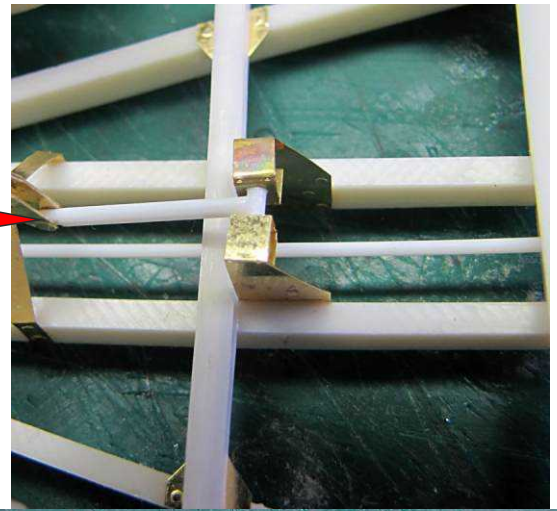
PE12



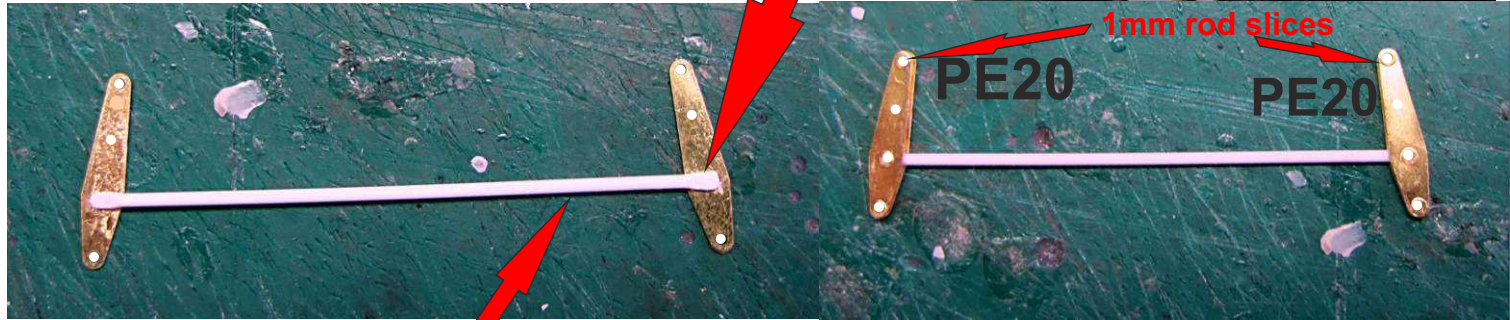
place completed arms right in the middle between A10, repeat for other wagon side



end of rods between
arms flattened with pliers



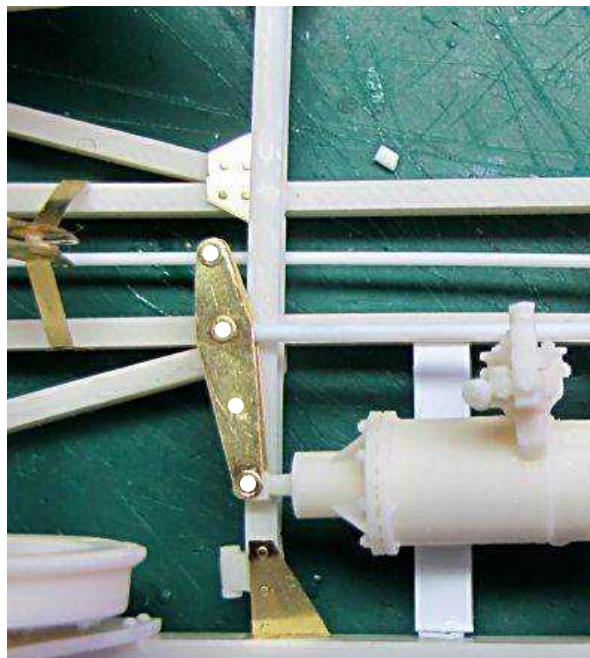
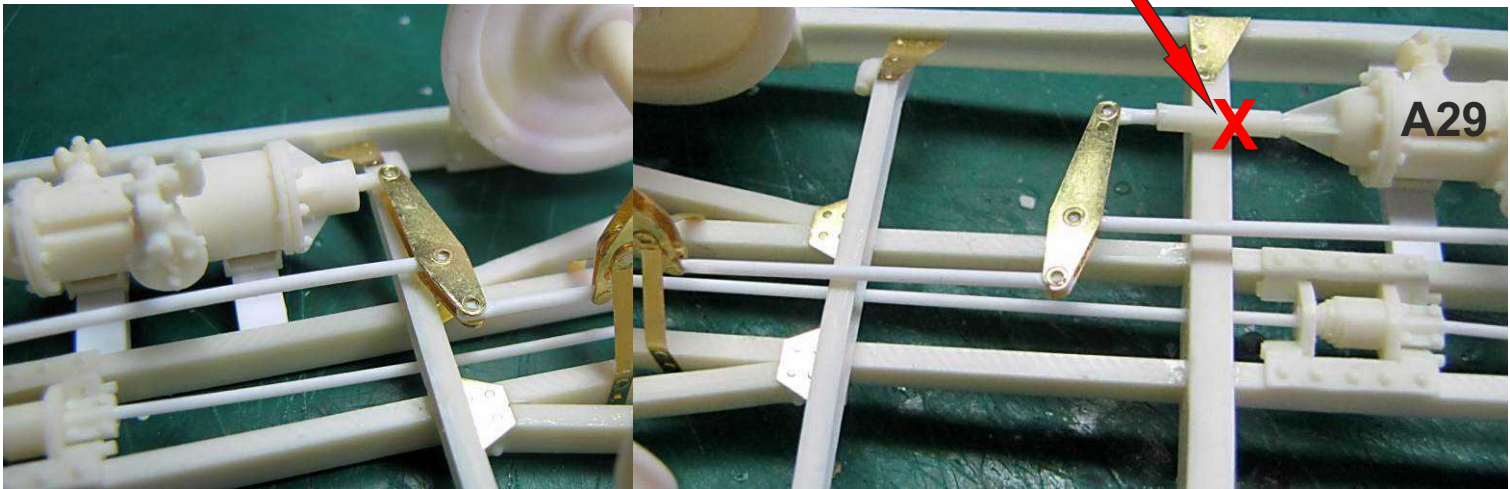
PE20- glue or solder halves
together, use 1mm rod slices to make pin ends

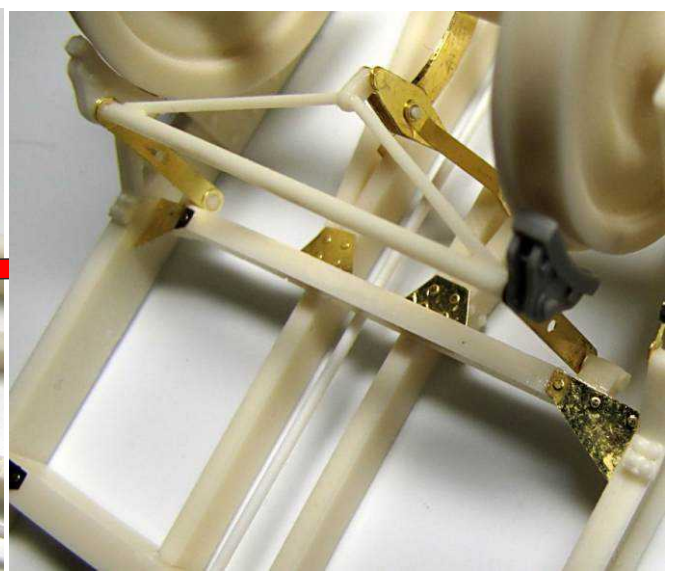
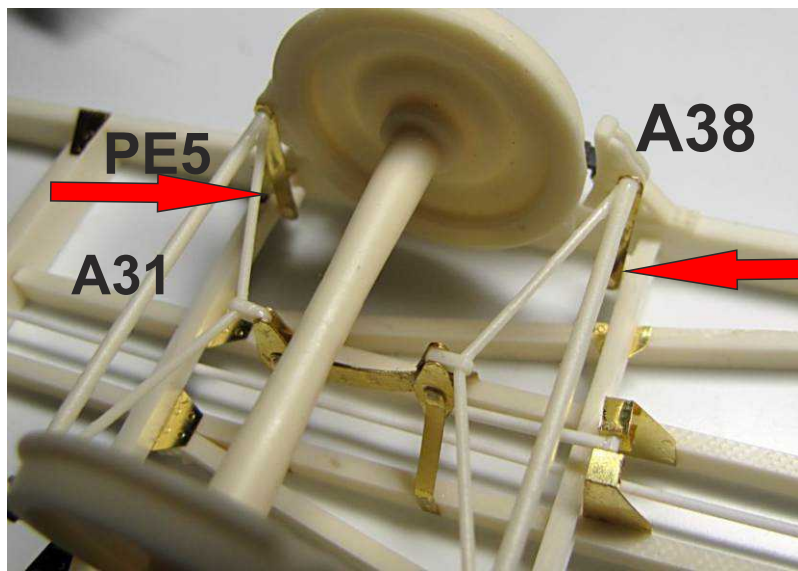


1mm wire
with flattened ends

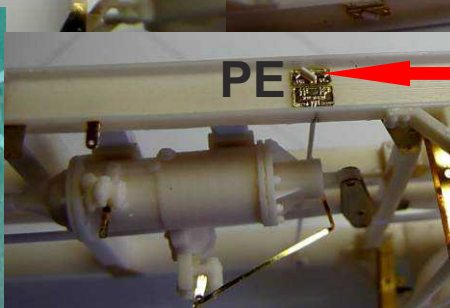
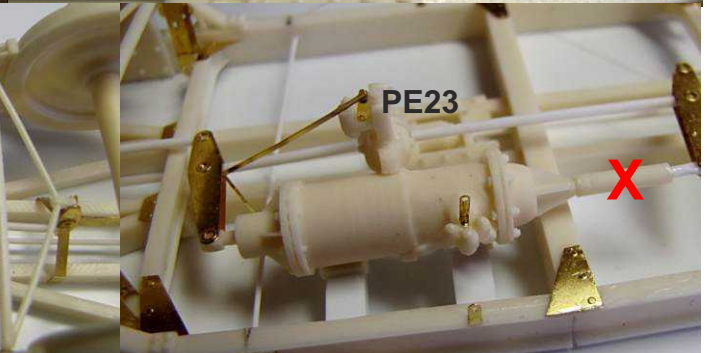
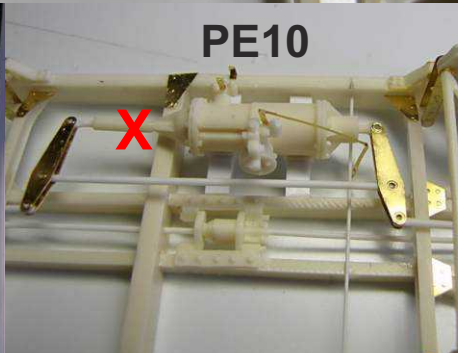
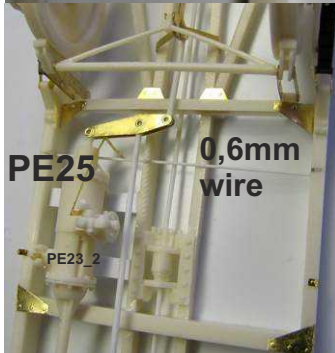
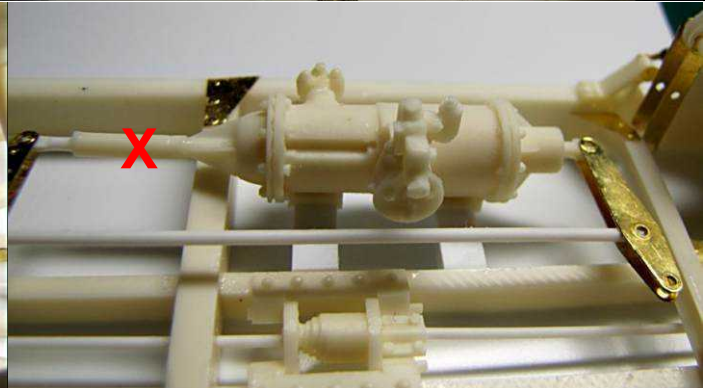
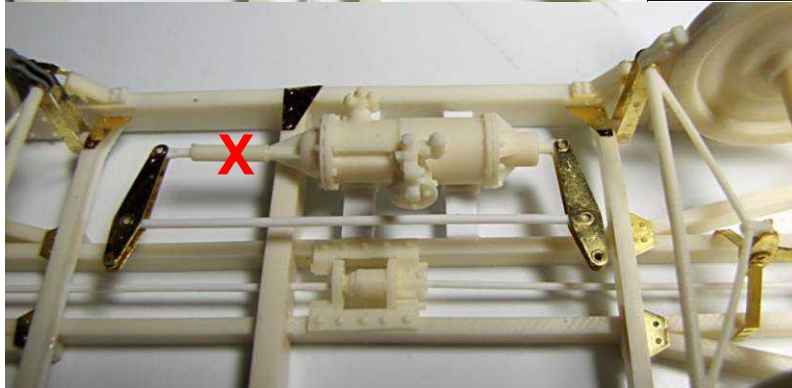
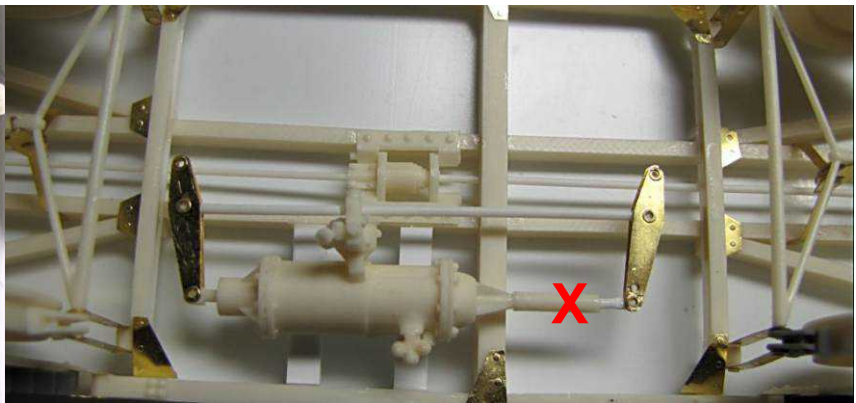
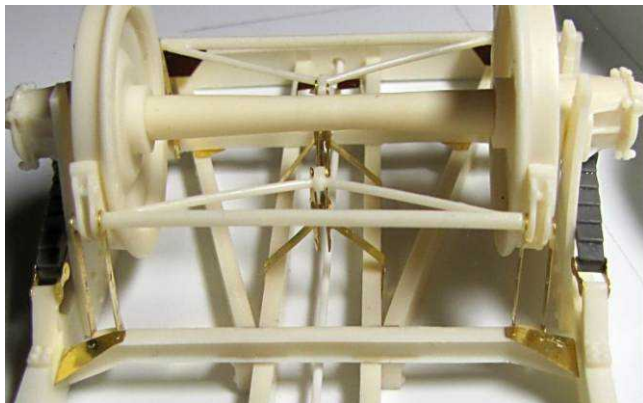
short
wire
A32

Do not use this part for Gr wagon,
but connect short wire 1mm diameter
with flattened end directly to the cylinder
because of limited room for arms PE20

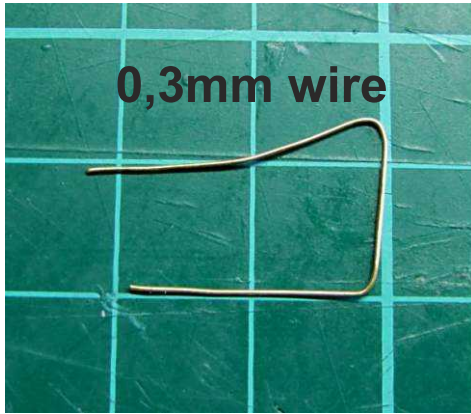




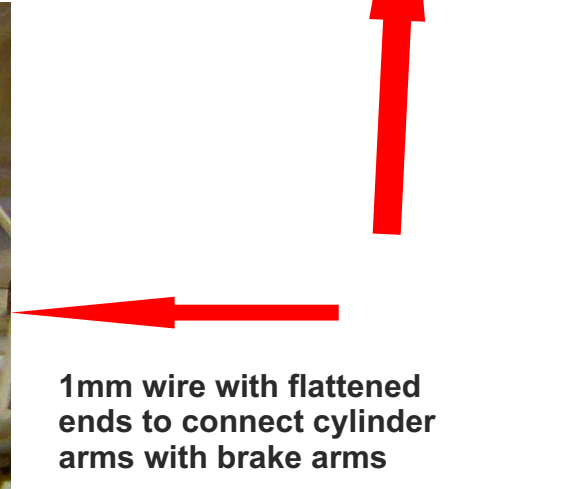
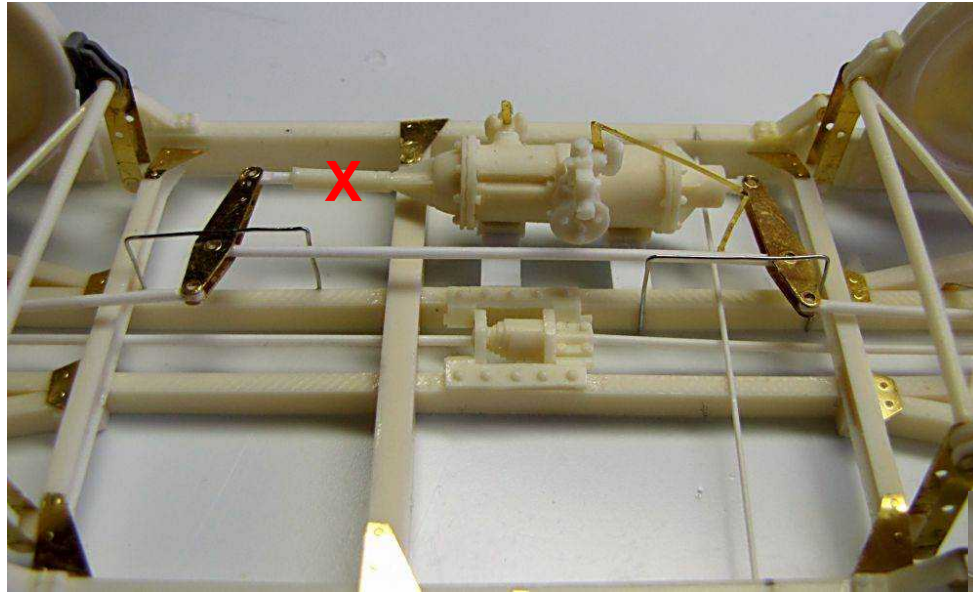
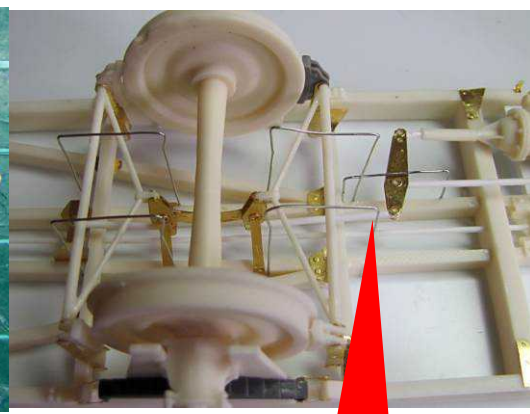
Place axles with wheels into holes in A30 (you might need to adjust also these holes by drilling)
 Assemble inner PE5 first, add A38 and A31 then - you might need to cut main rod length if needed to position brake blocks properly - glue short arm of A31 between PE brake arms PE12, and finally assemble outer PE5



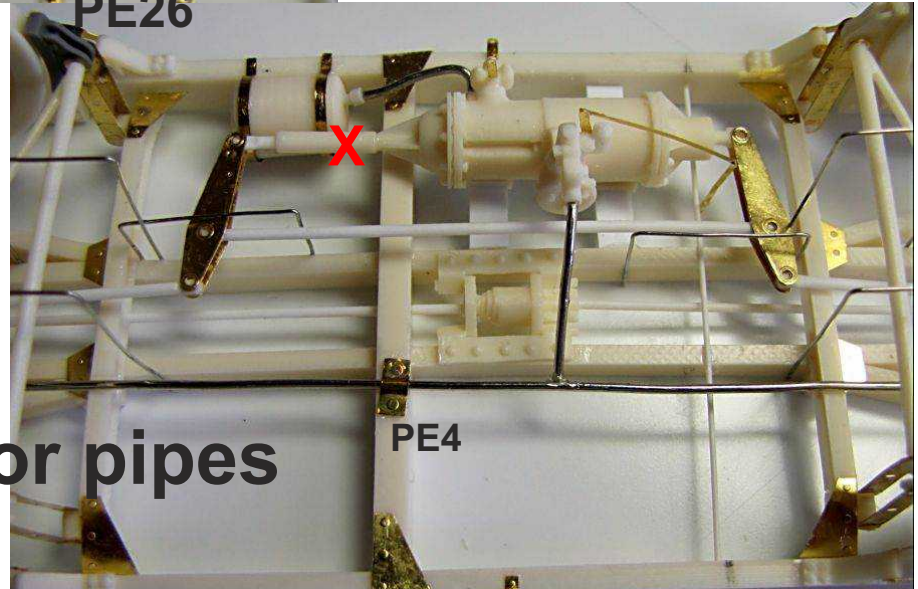
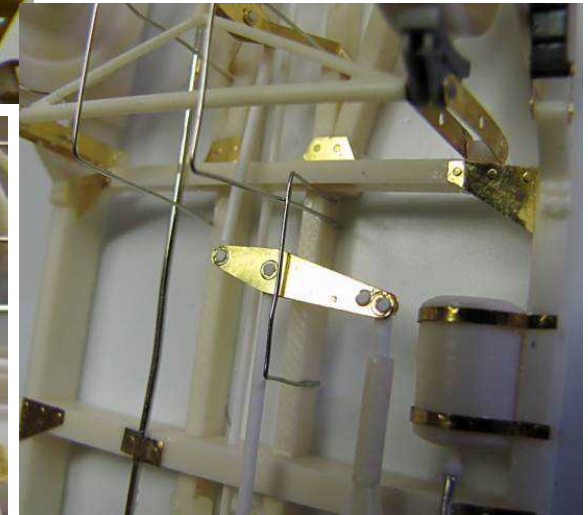
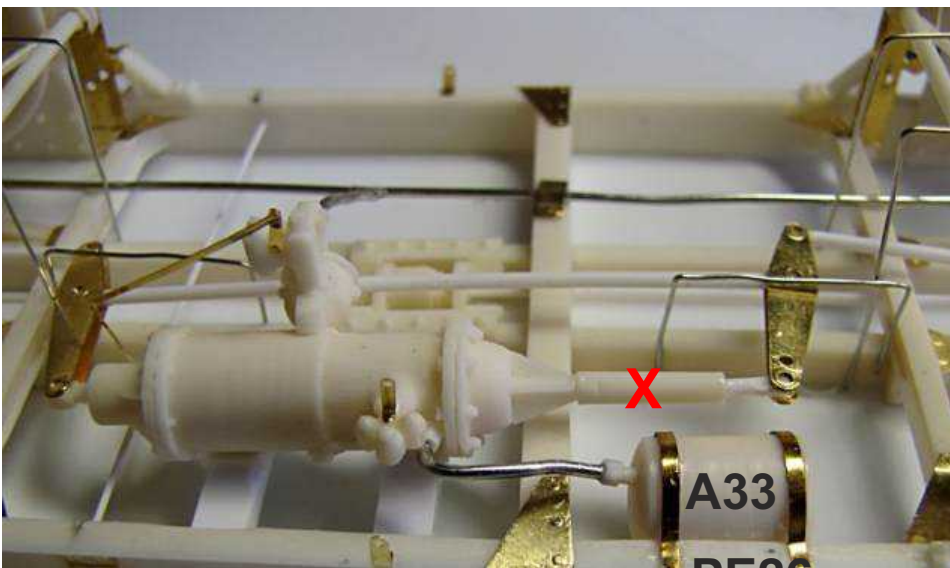
little bit of plastic



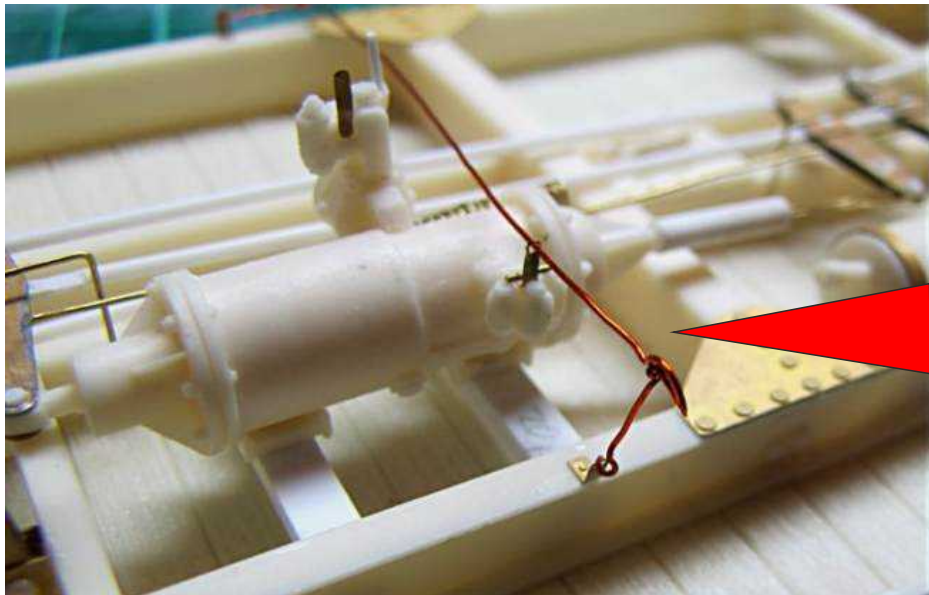
0,3mm wire



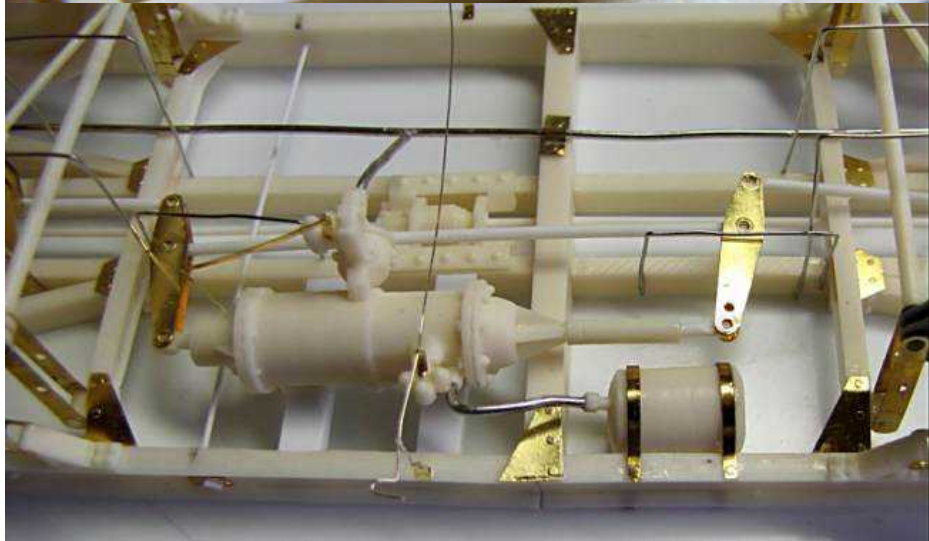
1mm wire with flattened ends to connect cylinder arms with brake arms



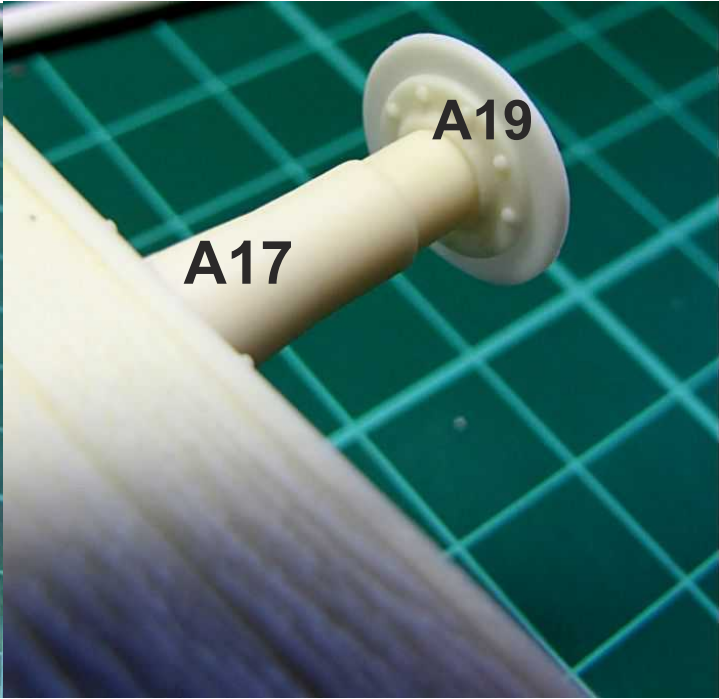
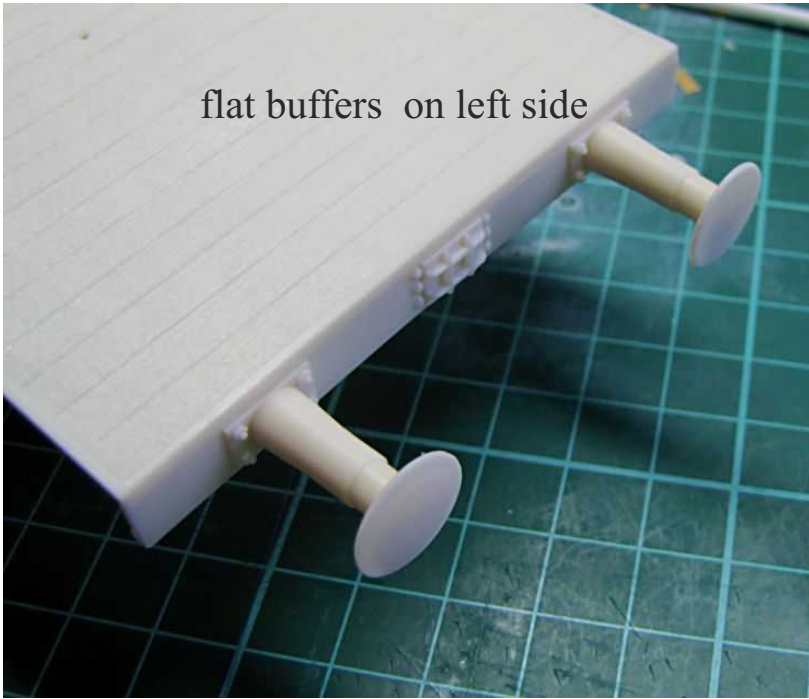
Use 1mm wire for pipes

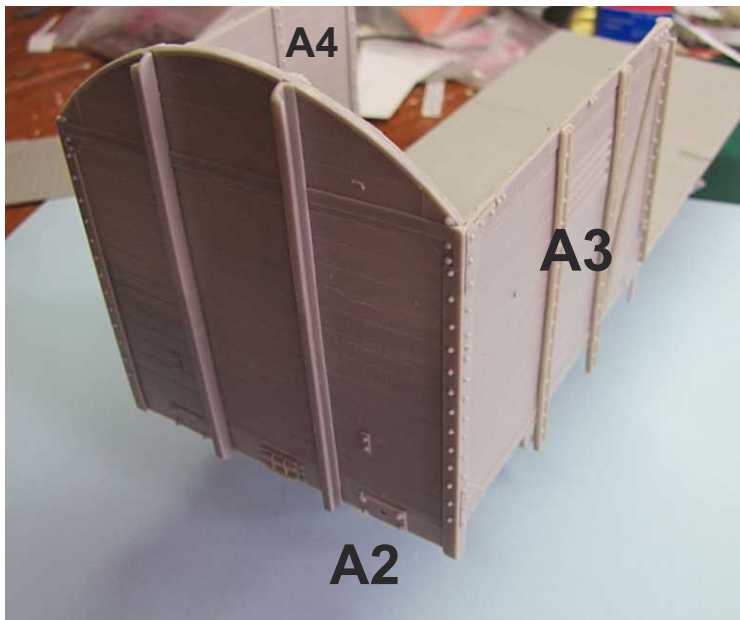


0,2mm wire



flat buffers on left side

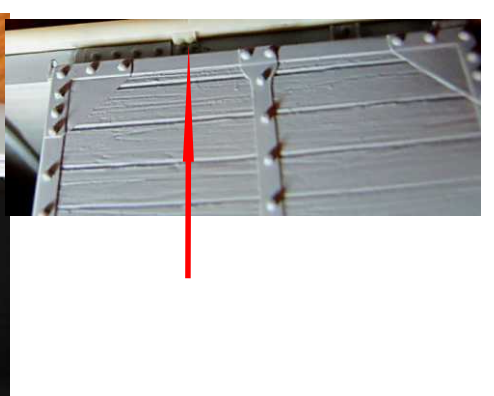
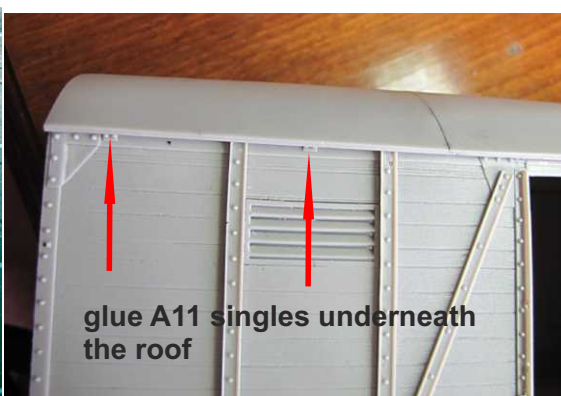
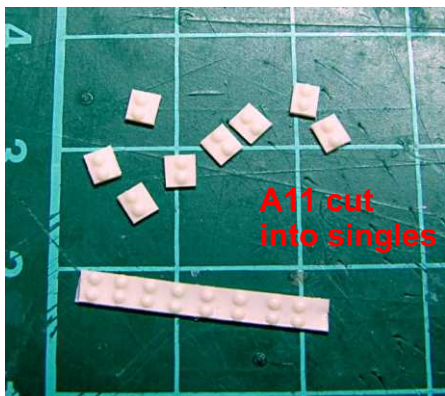


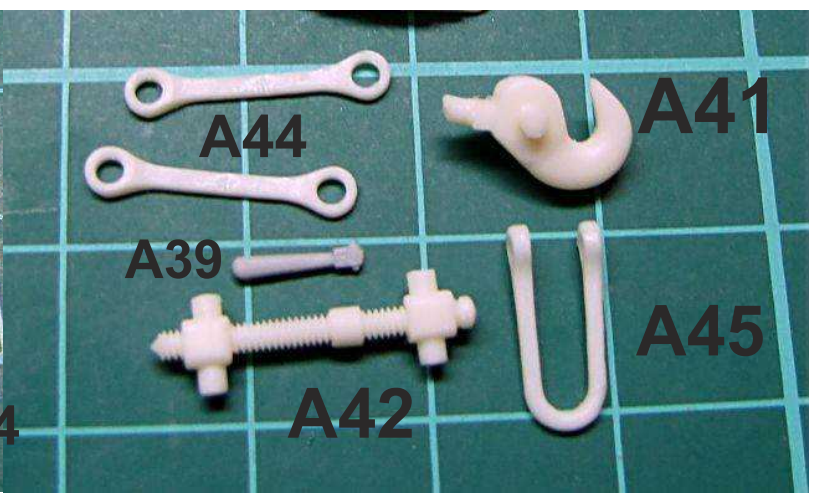
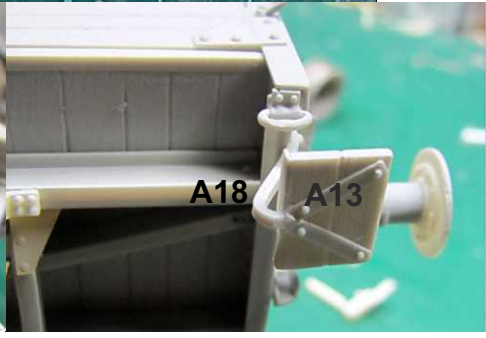
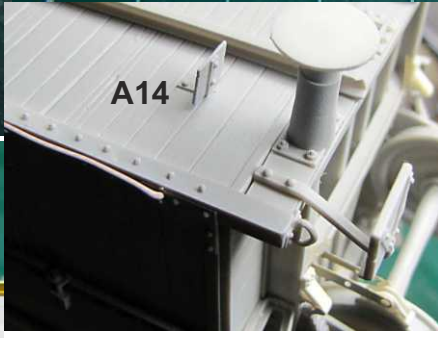
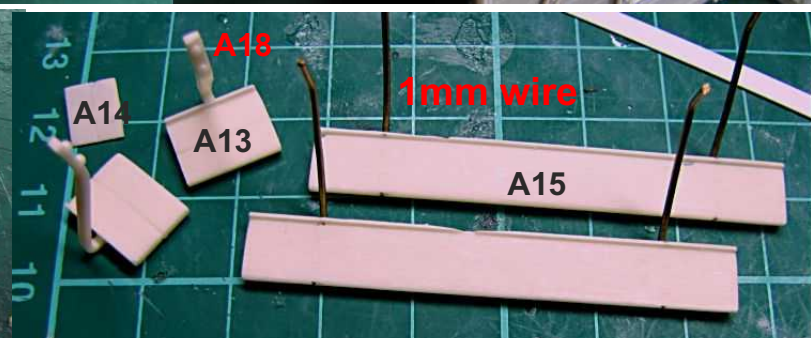
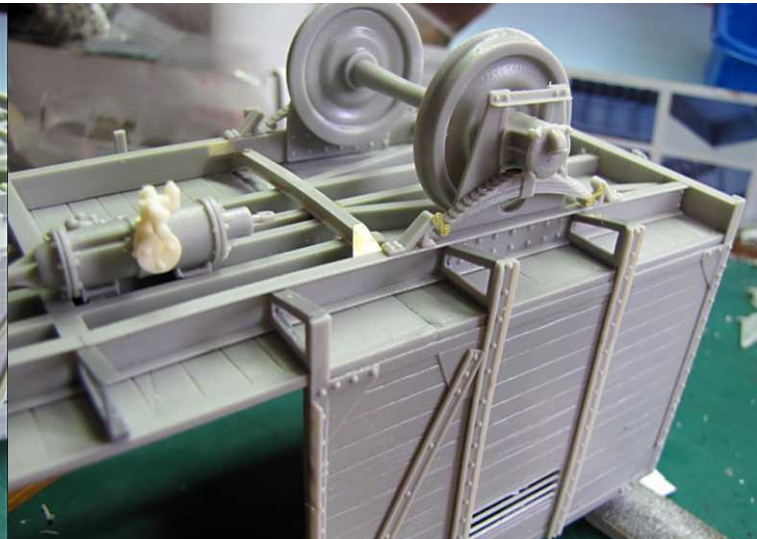
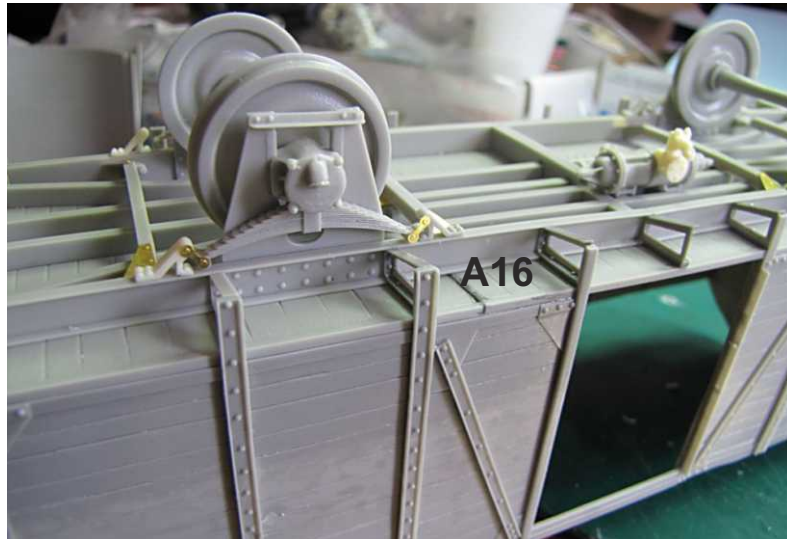


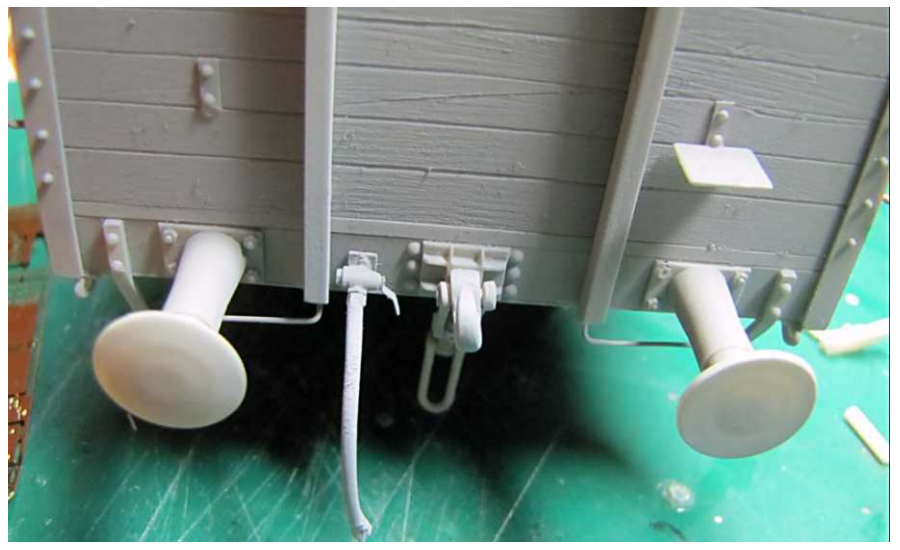
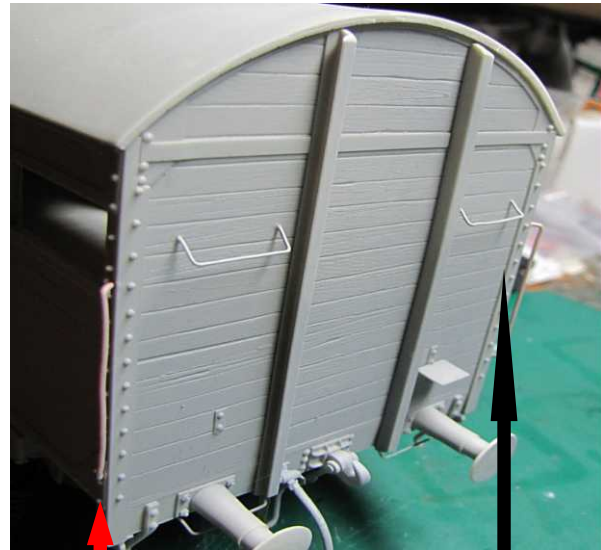
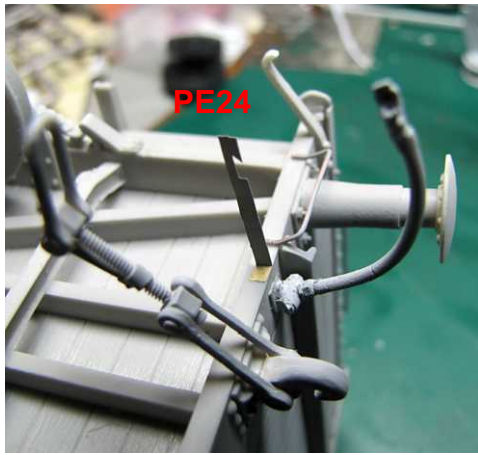
complete twice A3+A4+A2, glue in shutters (closed or opened) A24 for A3, A23 for A4, then assemble both sides on wagon base. Add A22 cut into length needed



complete roof - roof parts might warp during storage in box, ideally put them on 10cm diameter glass or suitable tub - rod - and correct warp with hair dryer, or put parts into hot water and then around 10cm base to get perfect shape. For easiest way roof parts can be replaced by one piece of suitable thick plastic card, which can be rounded also with help of hot water or hair dryer when plastic is shaped around suitable glass or tin 10 cm diameter. Glue roof on

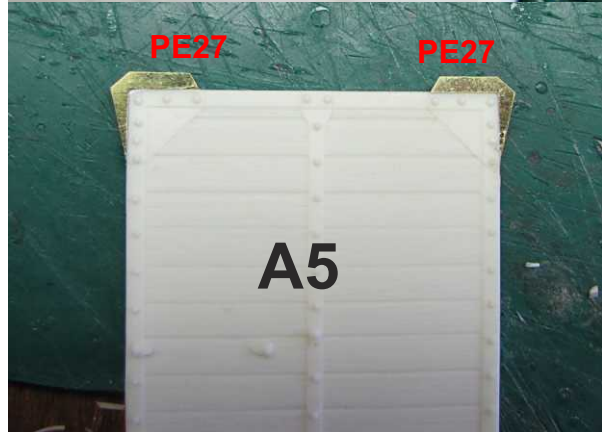
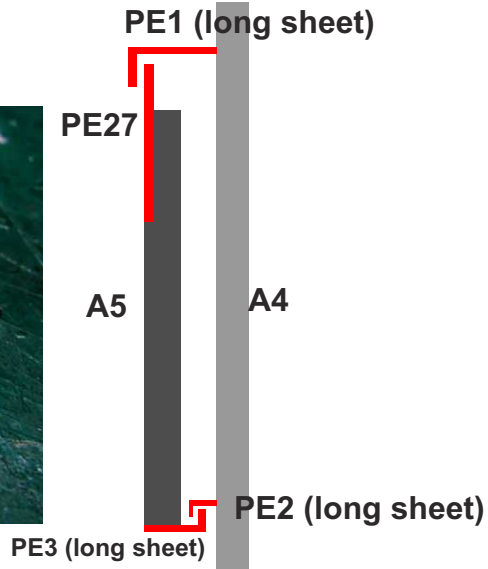
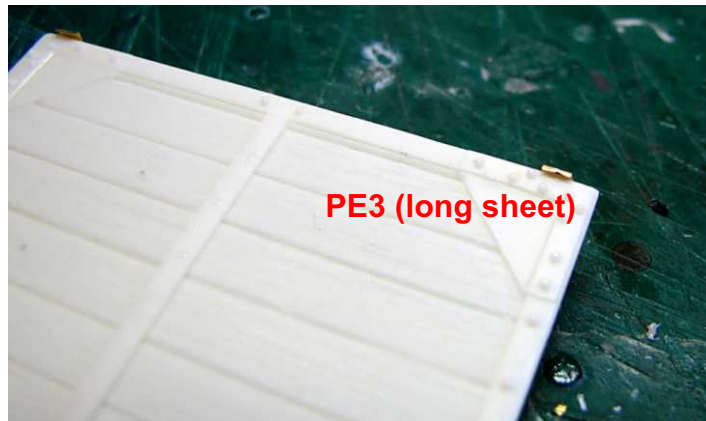


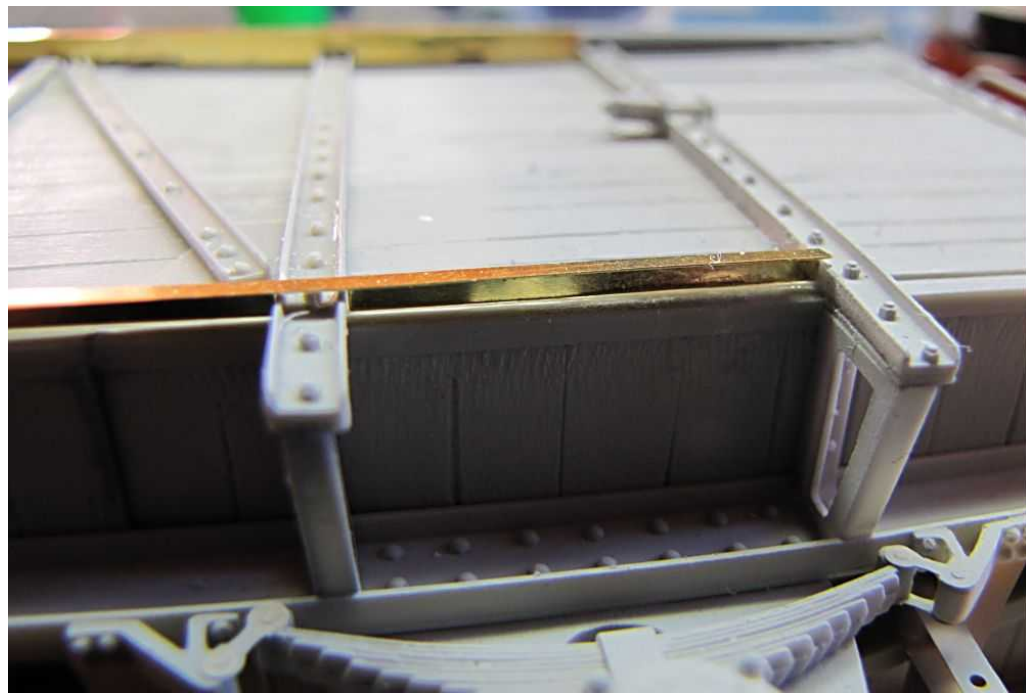
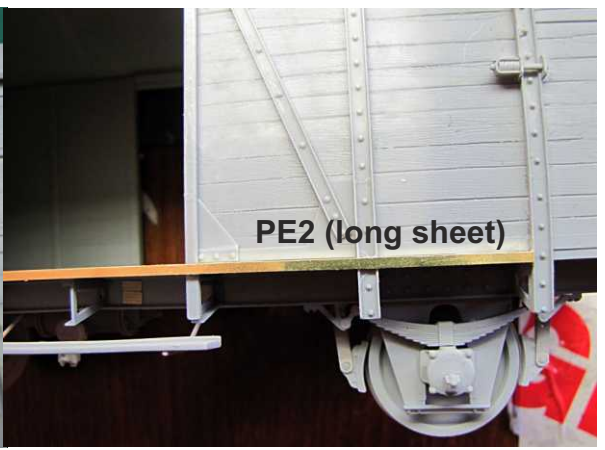
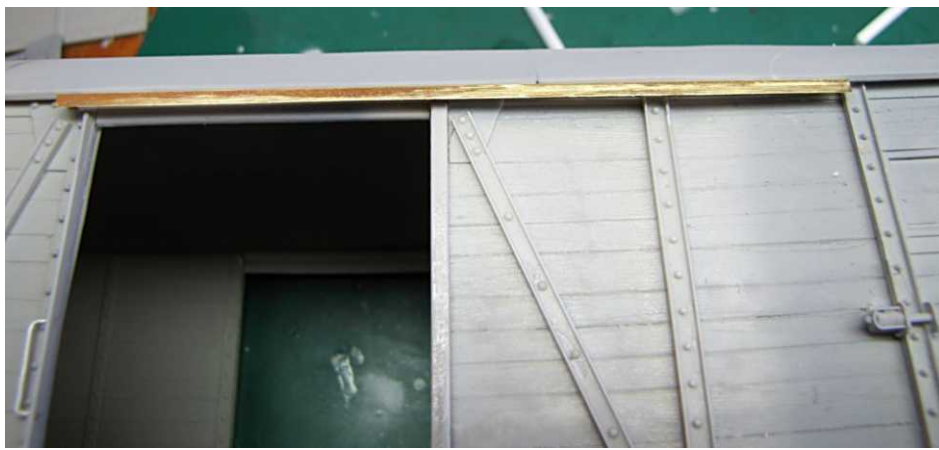




0,8mm wire

0,6 mm wire





PE2 is longer, cut off excess going over



place door in position - open or closed



drill holes for easy assembly of wire handles - all 0,6mm wire



PE6+PE28



**Painting - frame flat black, body brown-red
(overall or with black metal parts)
roof - dark grey**

