

# 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.**

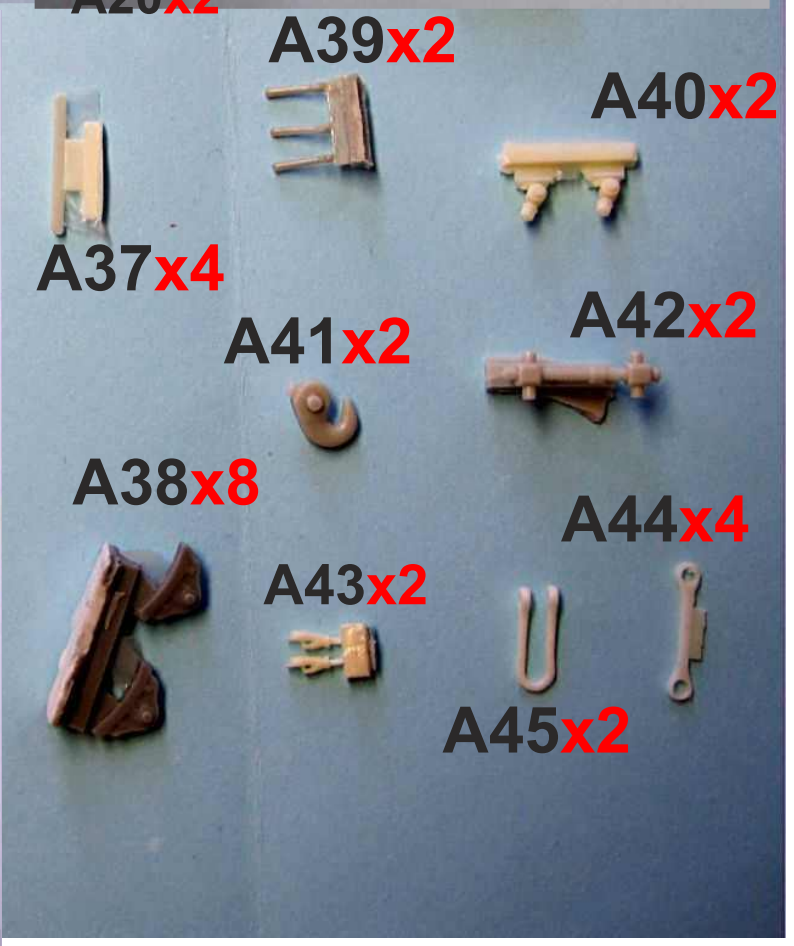
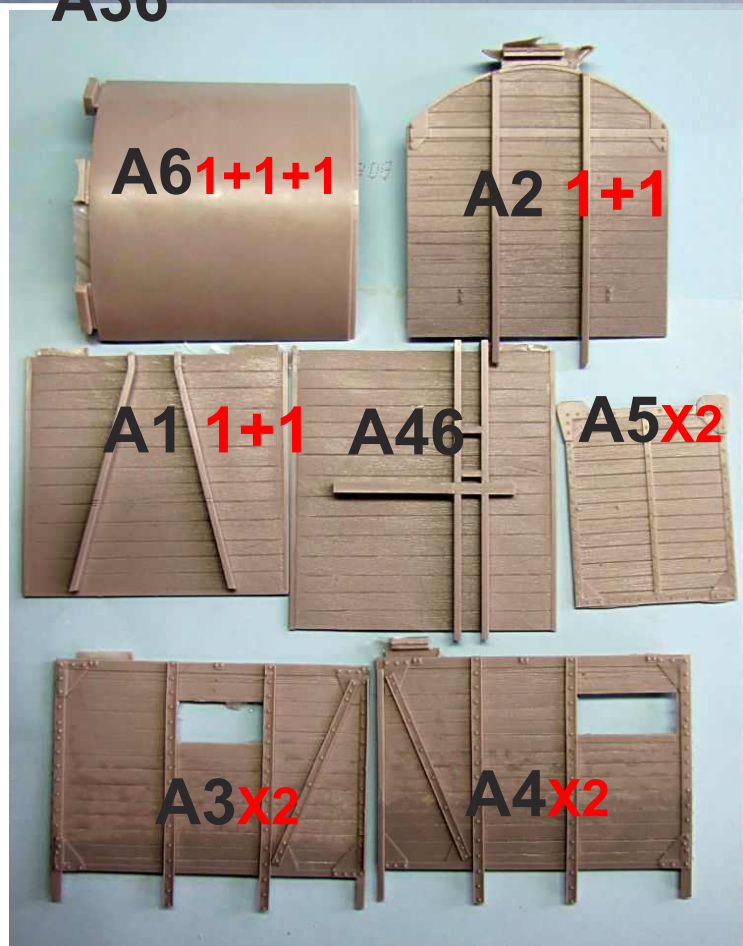
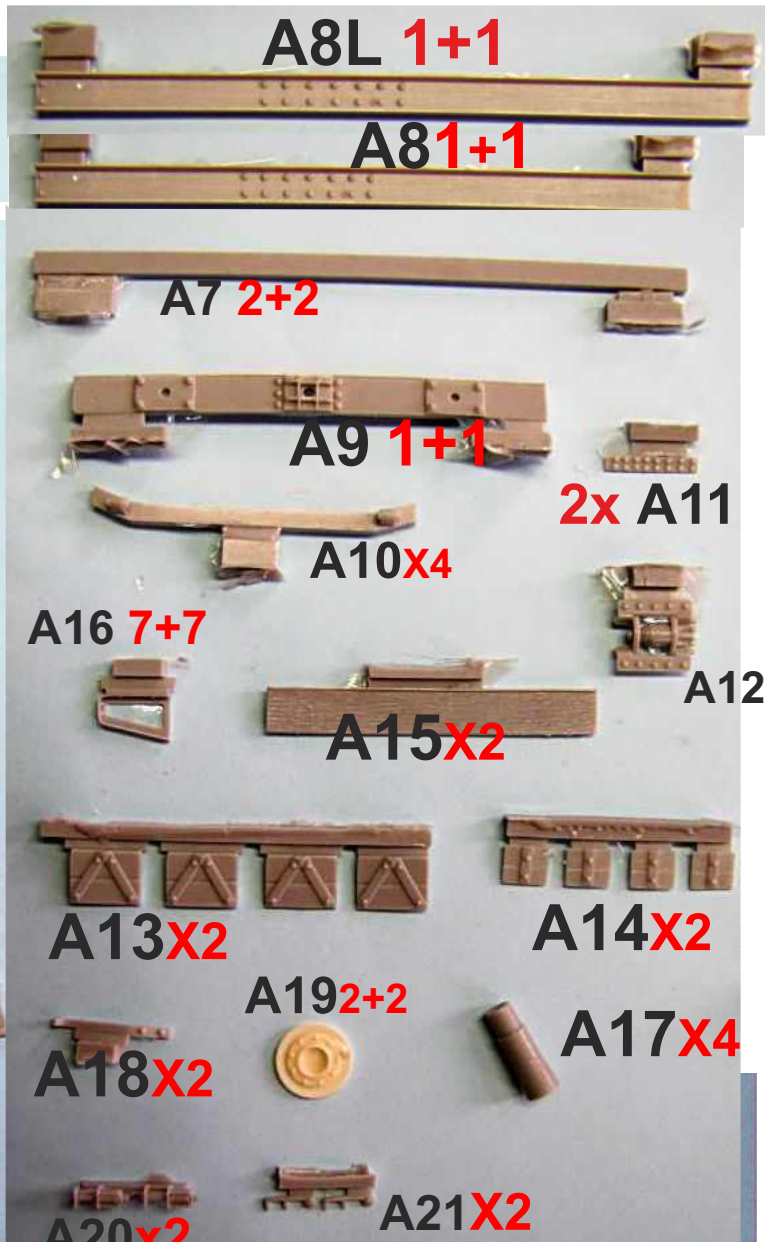
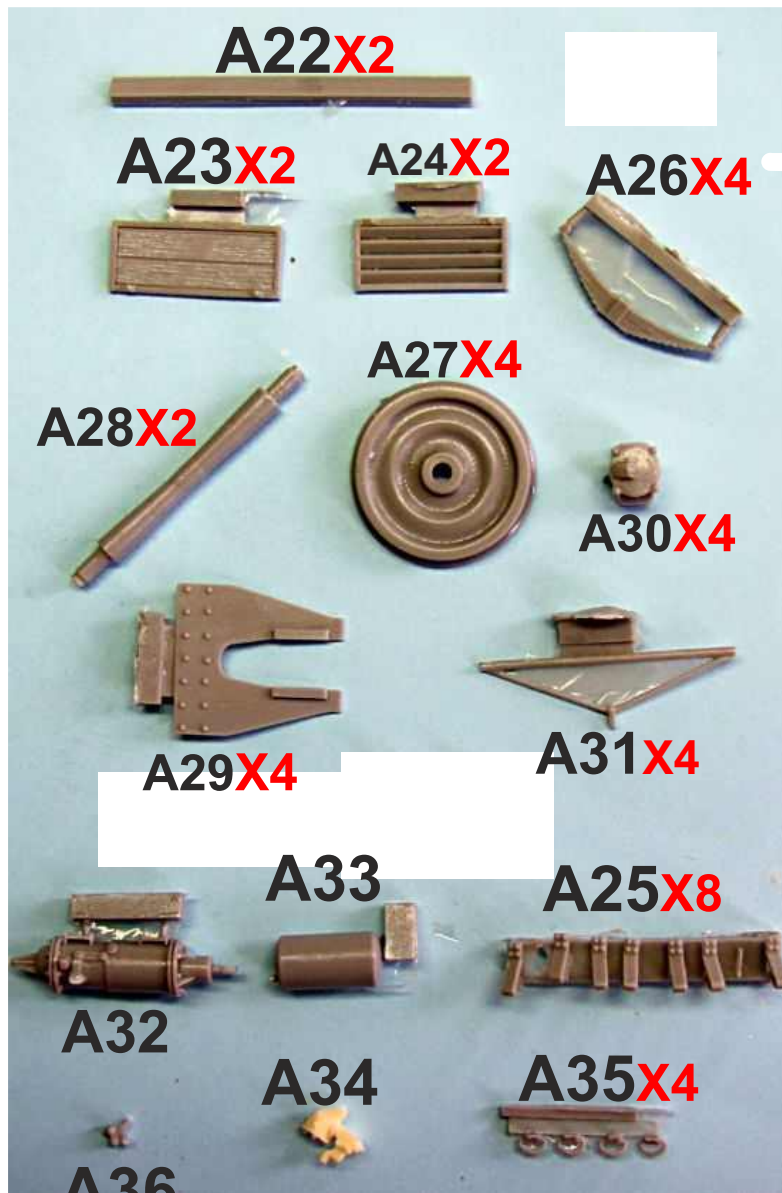
**The kit contains small parts, keep it out of the reach of children.**

**Glue and paints not included**

**Contains 130+resin parts,180+ PE parts and wires needed for assembly. Decals for 2 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.**



**B1**  
**x2**

**B2**

**B3**

**B4**

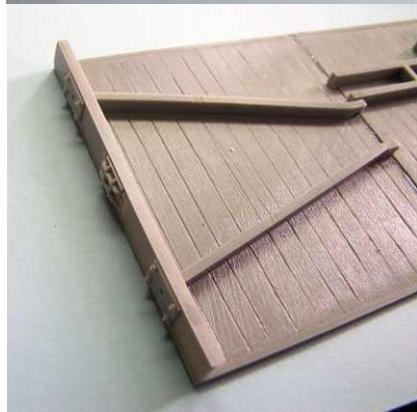
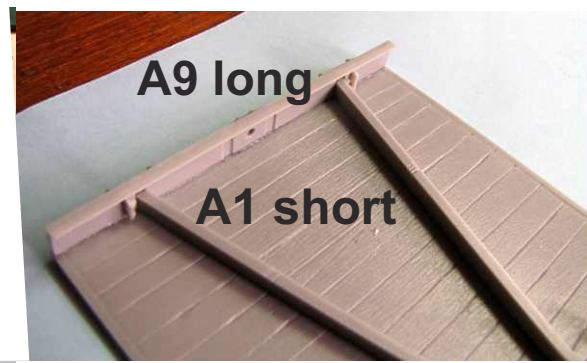
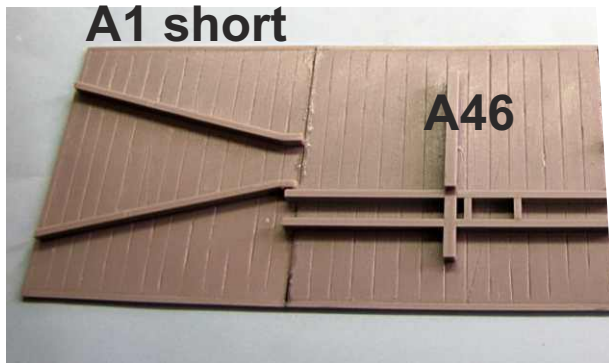
**B5 2+2**

**B6**

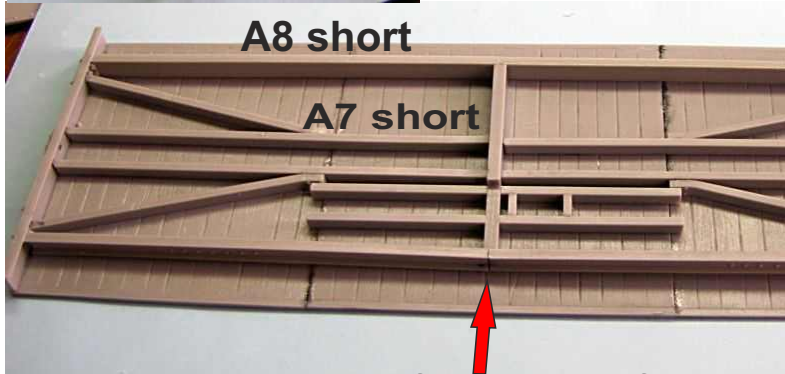
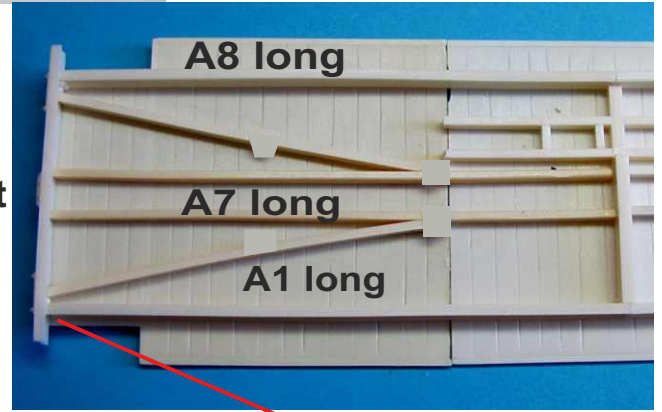


# Assembly:

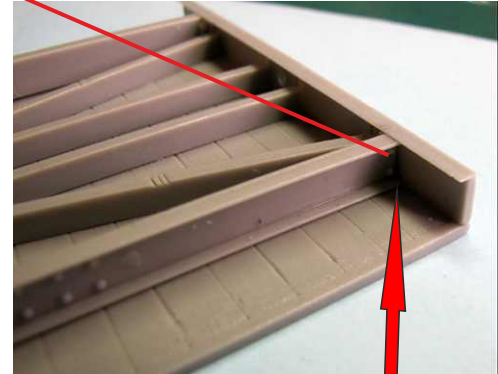
Assembly is easy, but it is very important to keep eye on right angle in any corner, also perfectly flat working surface is a need. Parts A7 and A8 are a bit longer than needed - because of resin and silicone mold shrinkage to avoid fit trouble, these parts can be sanded to their length required



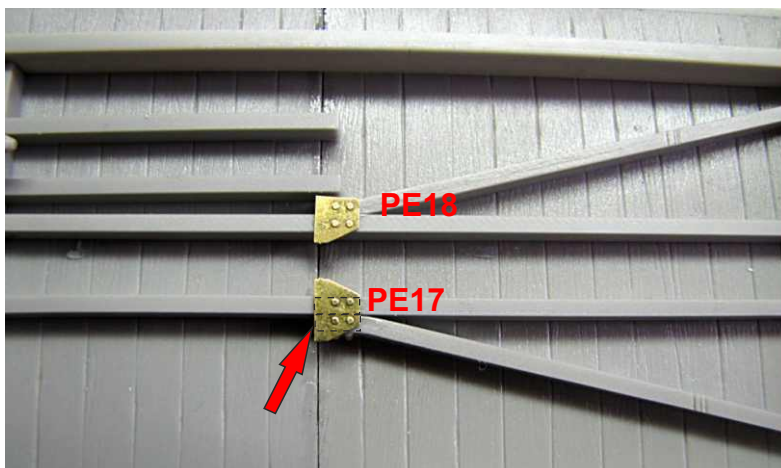
A9 short



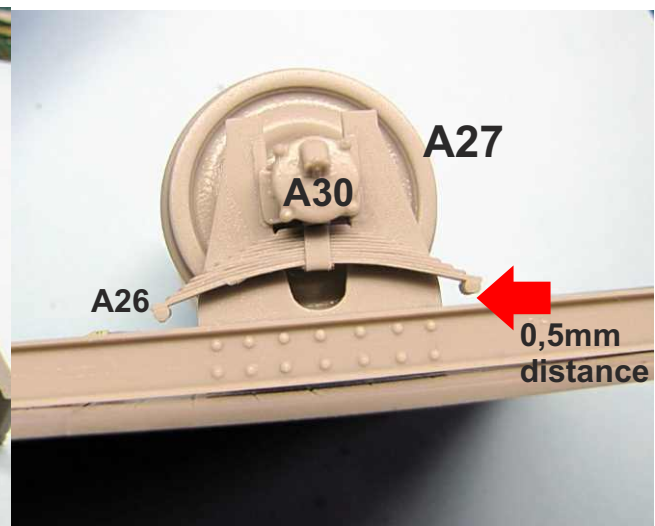
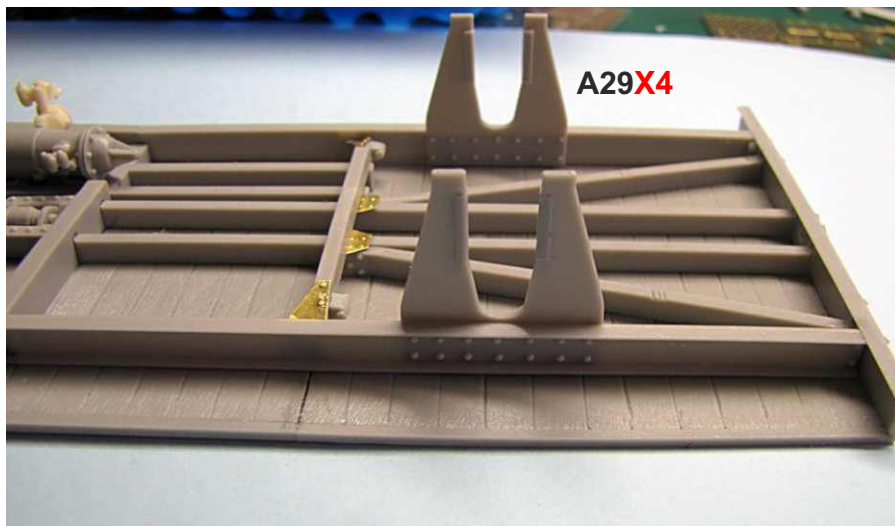
A8 to meet in the center of cross beam, if you need to sand A8 to adjust their length, sand these ends, not the end with rivets!! Do not glue A8 to the floors until you have assembled all cross beams!!!! Glue just their ends to A9 and center cross beam



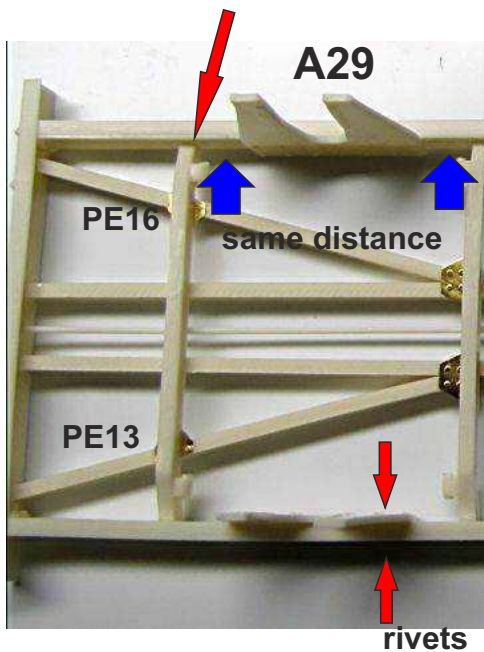
2 rivets at the ends of A8 to face parts A9.



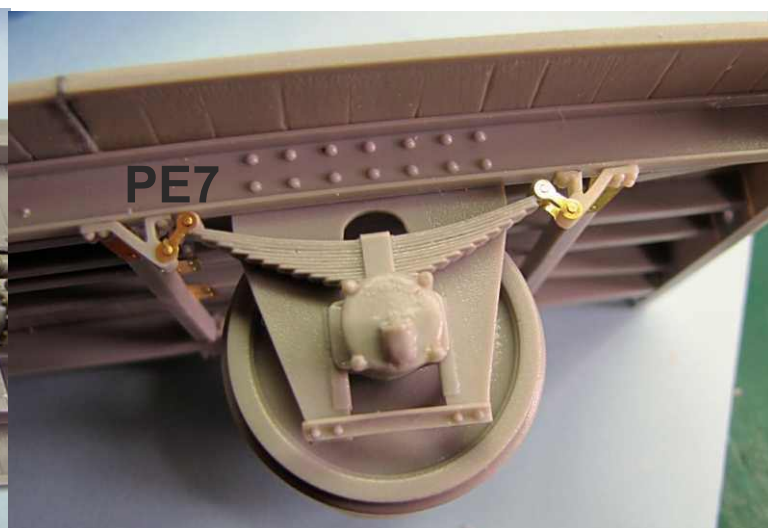
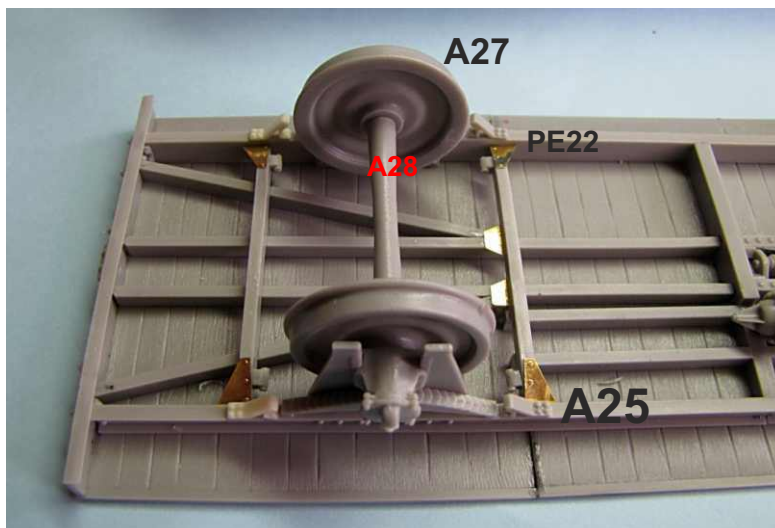
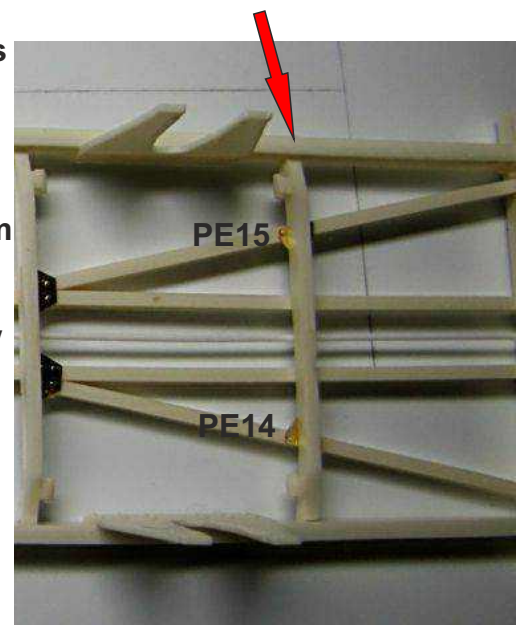
Add PE17+PE18 on both sides, add inner A10 on both sides and PE22



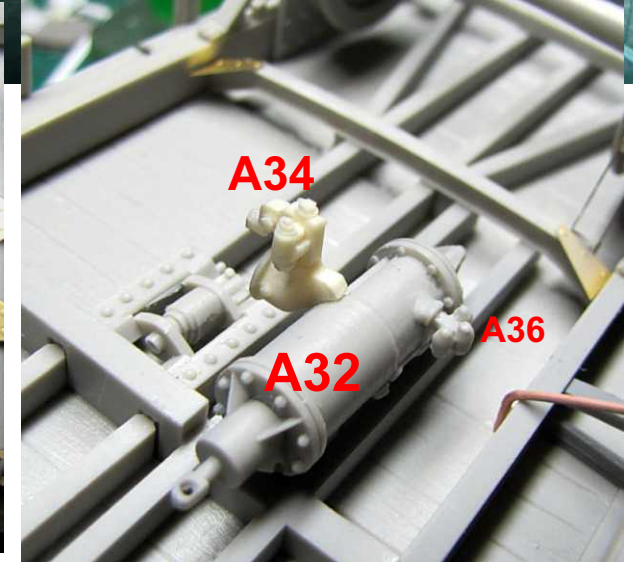
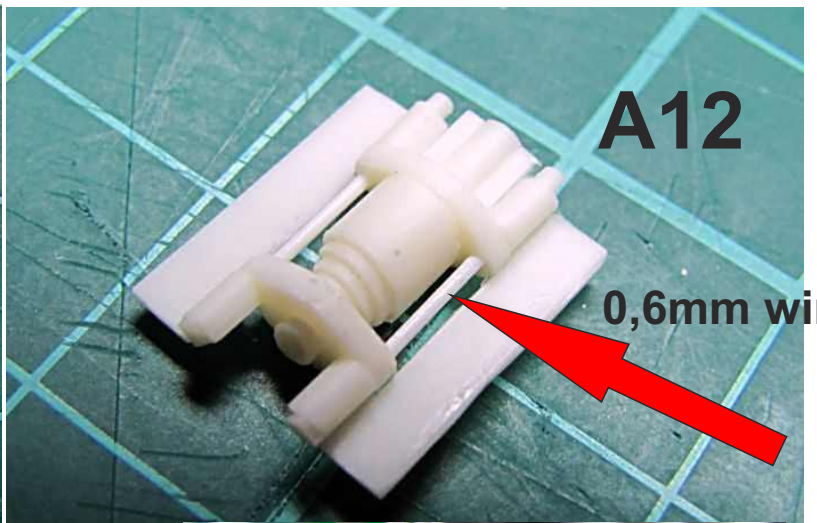
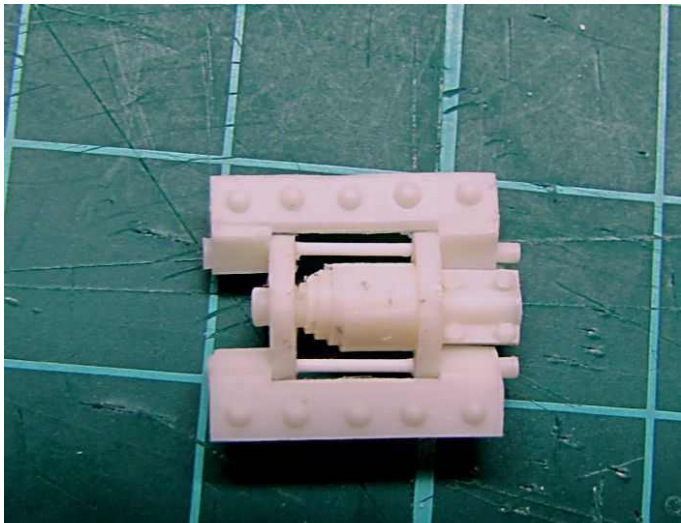
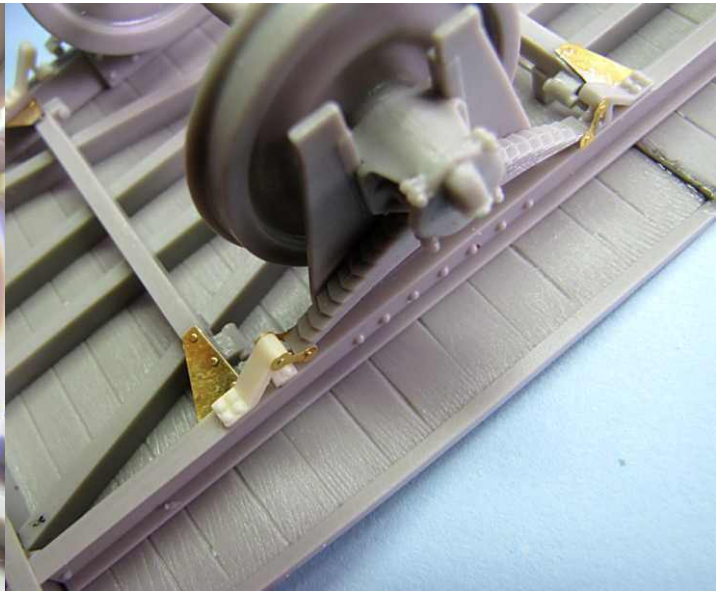
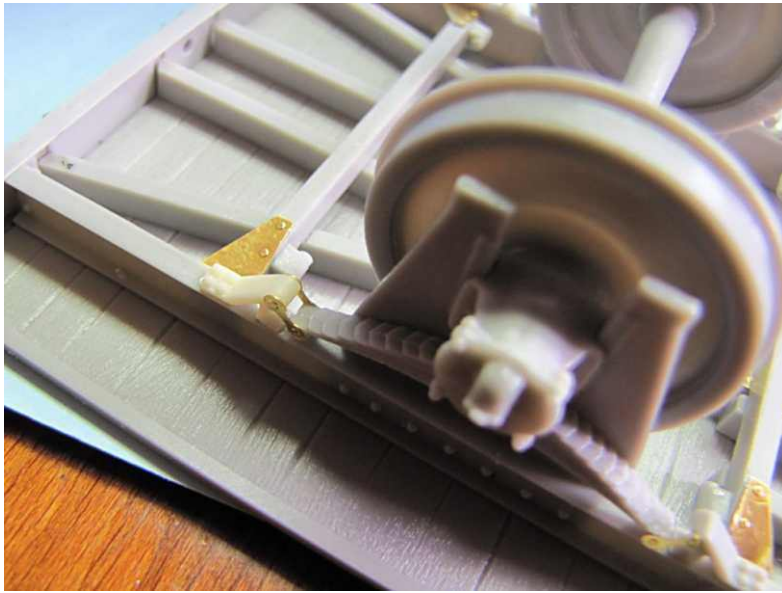
Assemble 4xA29 - rivets against rivets on A8, complete 2 piece of axles A27 with 2 wheels A28 (you might need to adjust holes in wheels with drilling bit), slide bearing housings A30 into A29 and place spring A26 - there should be 0,5mm gaps between spring ends and A8, then secure all parts with glue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



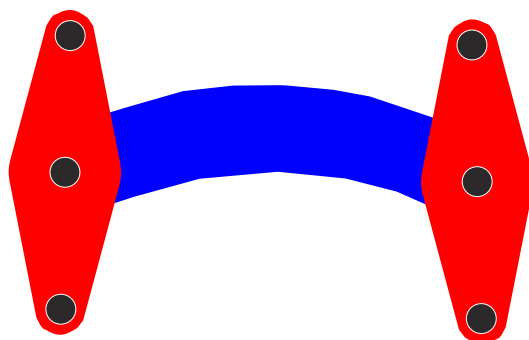
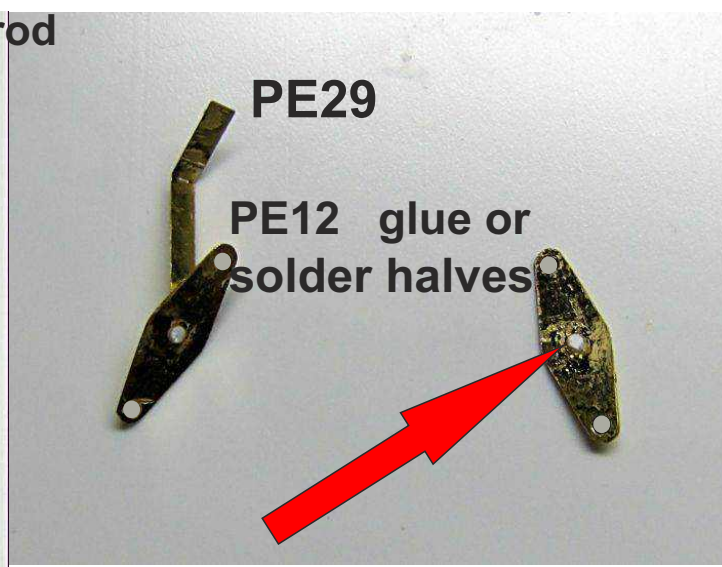
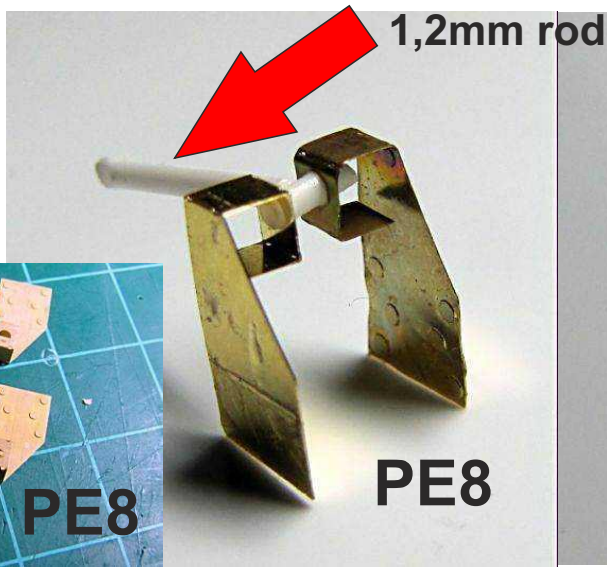
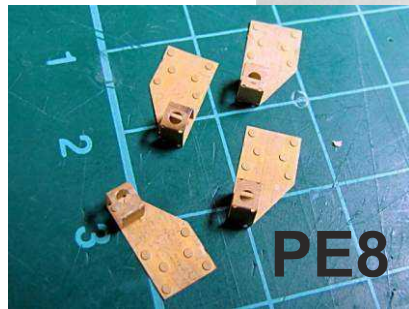
Assemble outer crossbeams A10 in the same distance from A29 like A10 glued earlier - join A10 with A8 first, then place PE13-PE16 between them and fork beam and finally secure all parts with glue.  
Glue all A8 to the floors now  
Add all PE22  
Add all A25  
Add all PE7





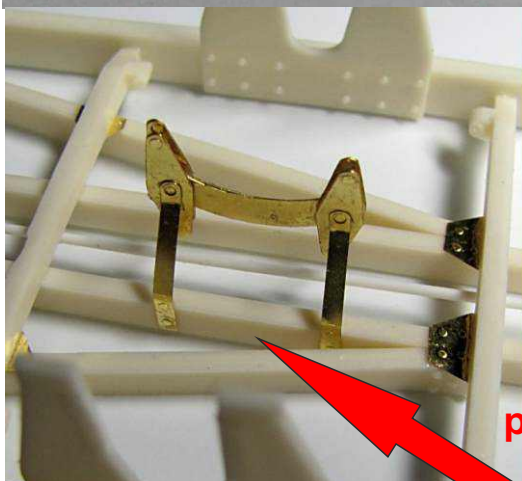






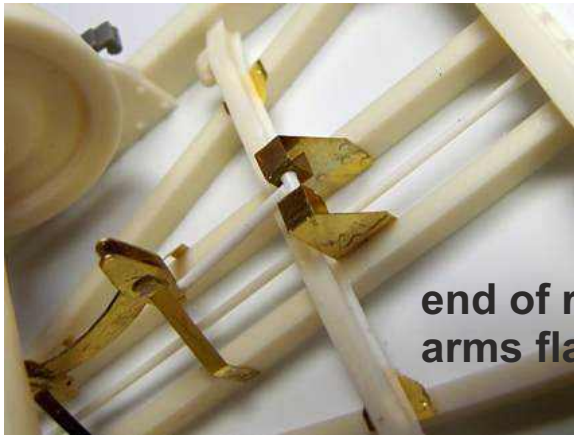
1,2mm rod about 1mm long used for all pins, you can glue them in holes or melt their ends with lighter

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

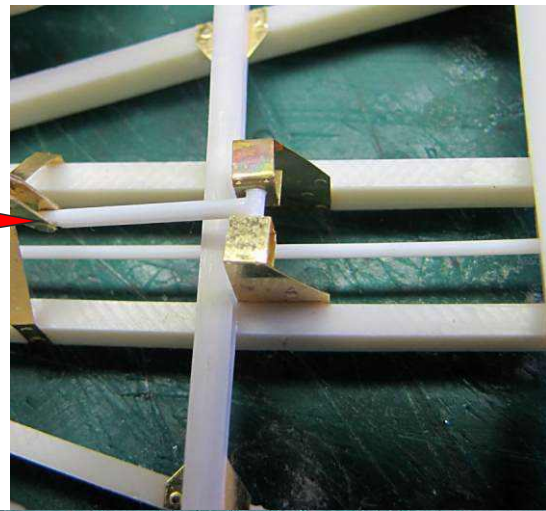
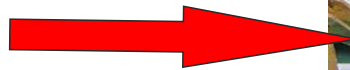


place completed arms right in the middle between A10, repeat for other wagon side

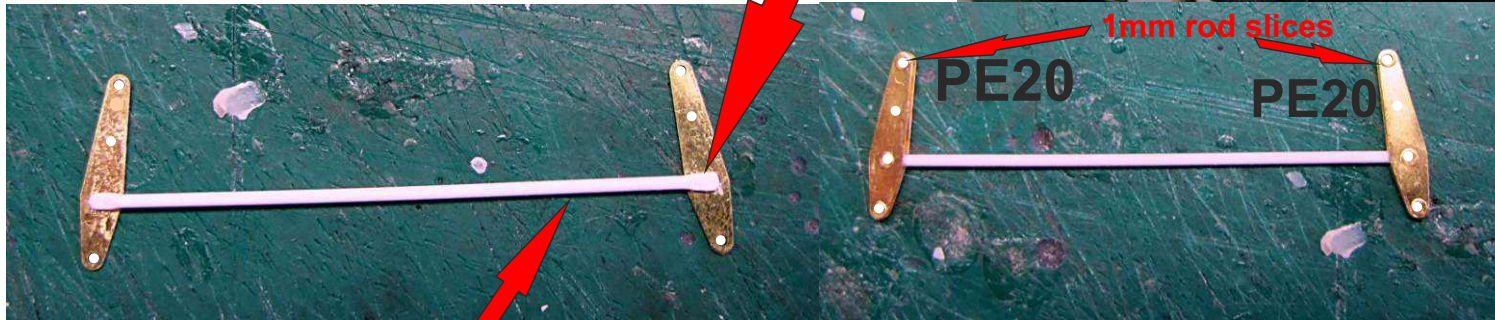




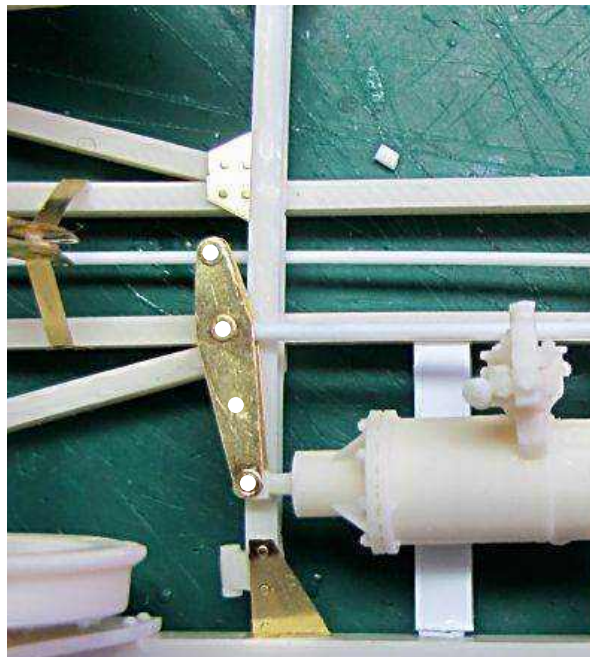
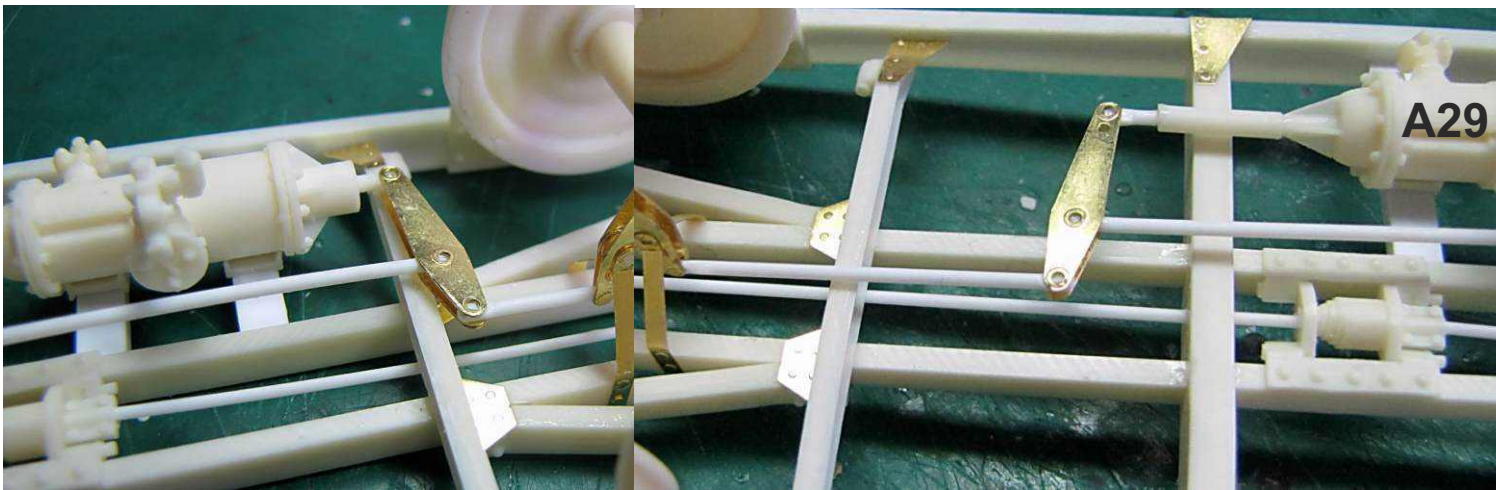
end of rods between  
arms flattened with pliers



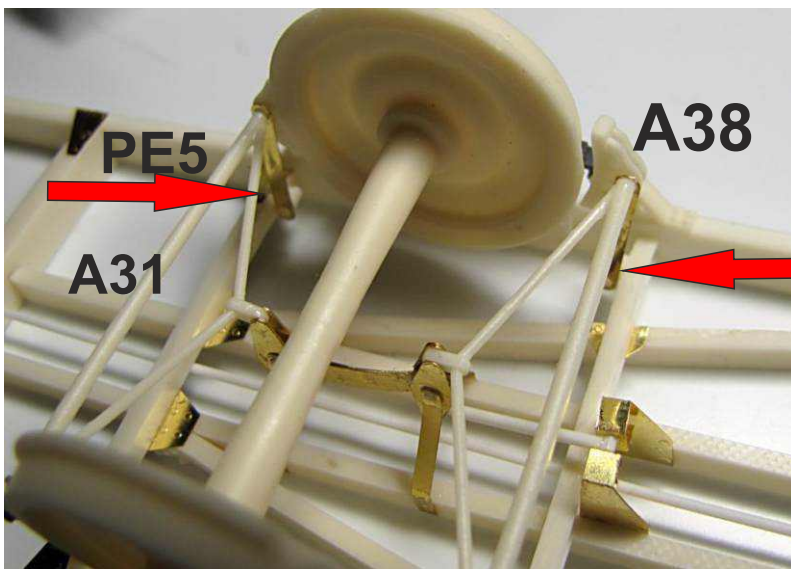
PE20- glue or solder halves  
together, use 1mm rod slices to make pin ends



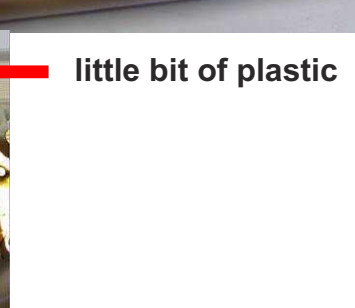
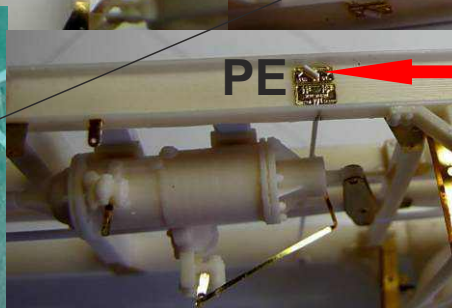
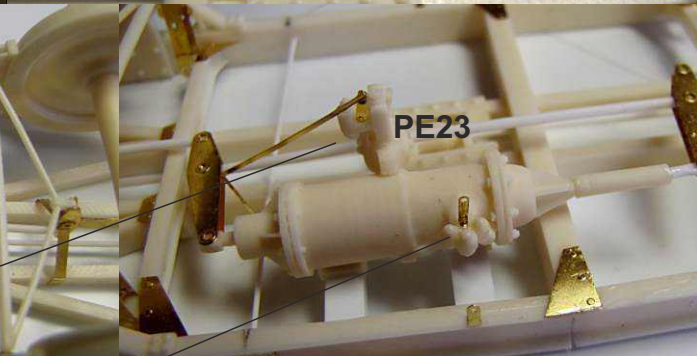
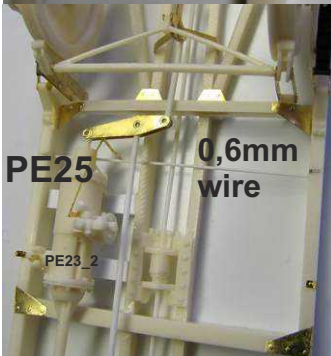
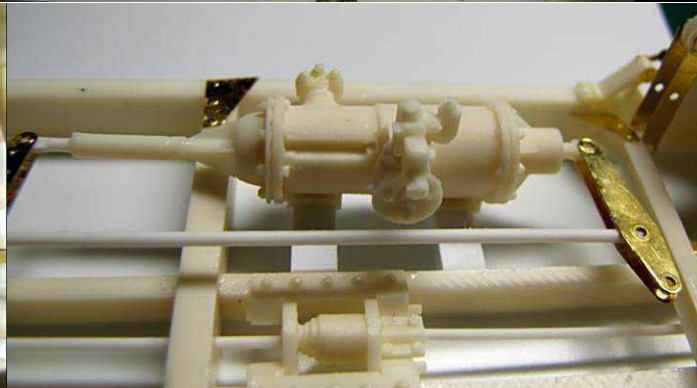
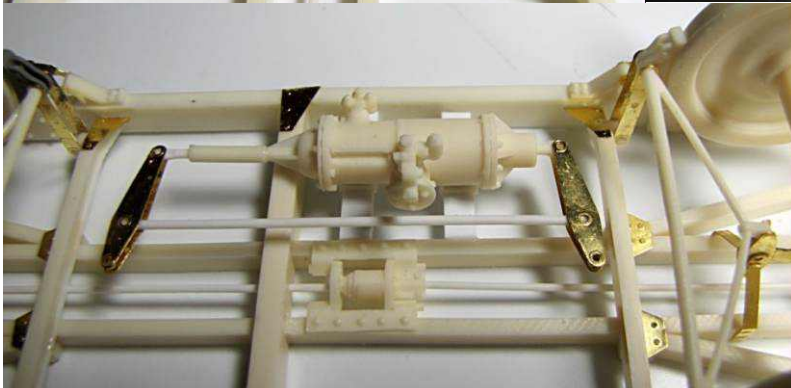
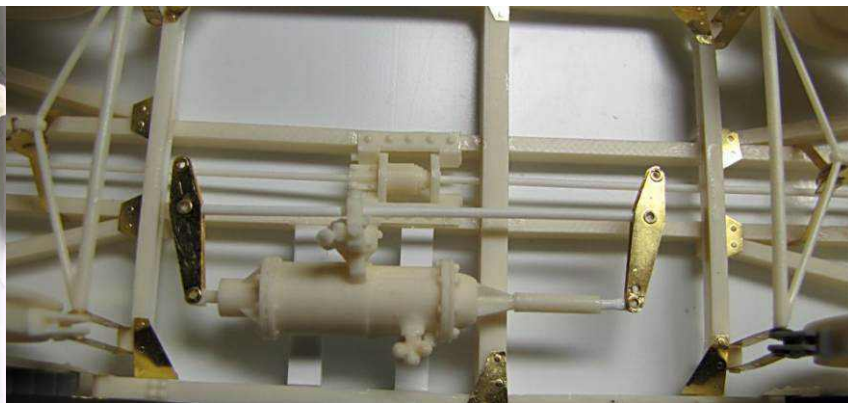
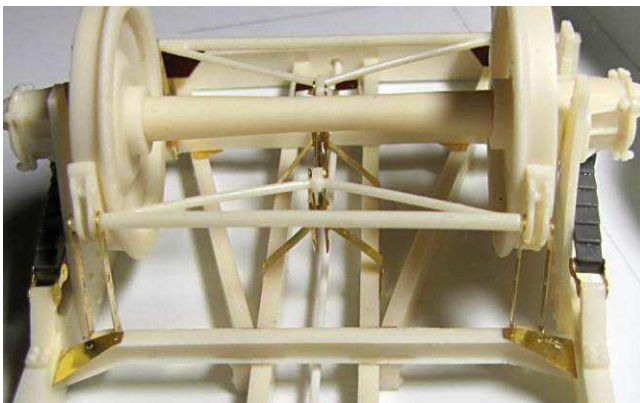
1mm wire  
with flattened ends



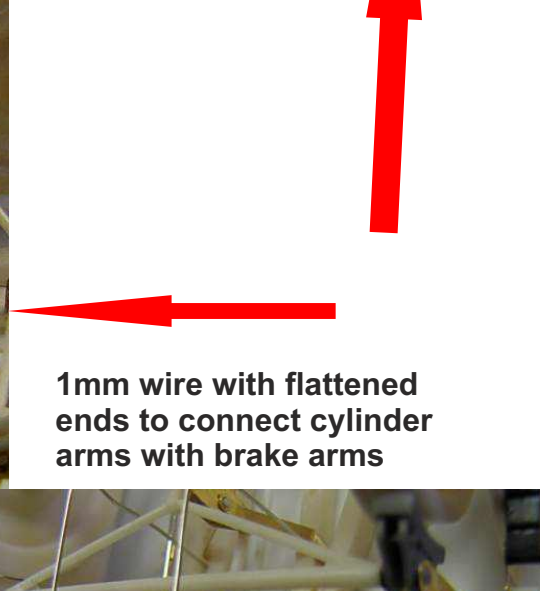
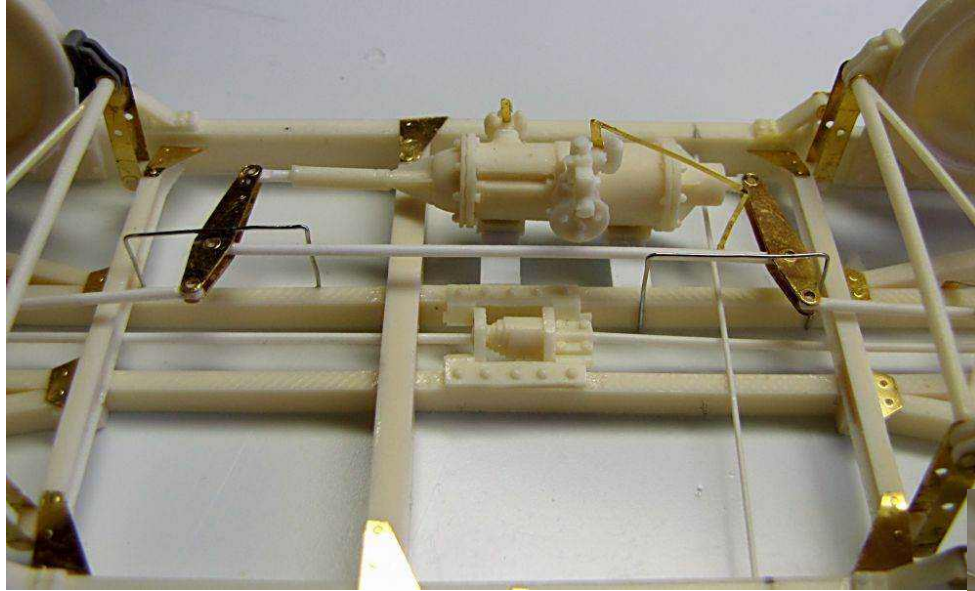
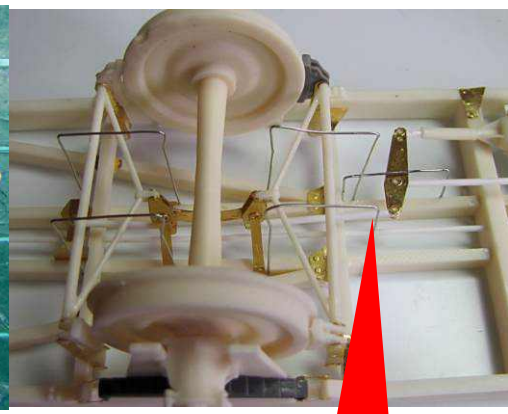
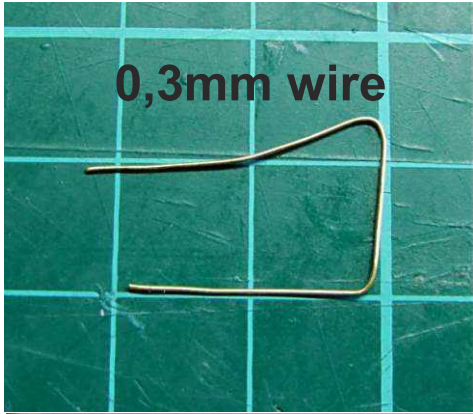




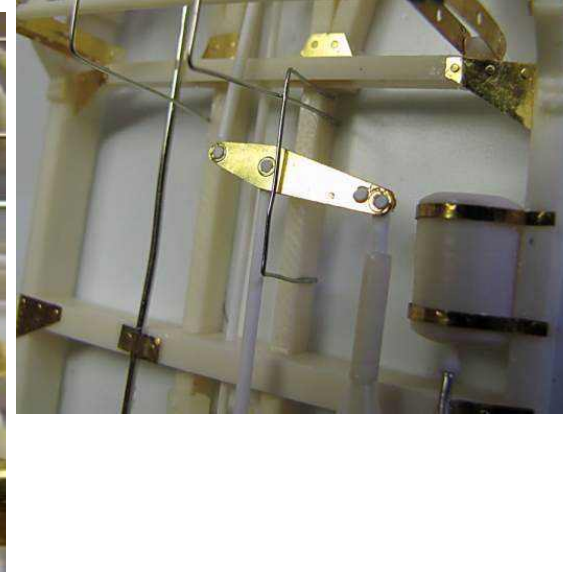
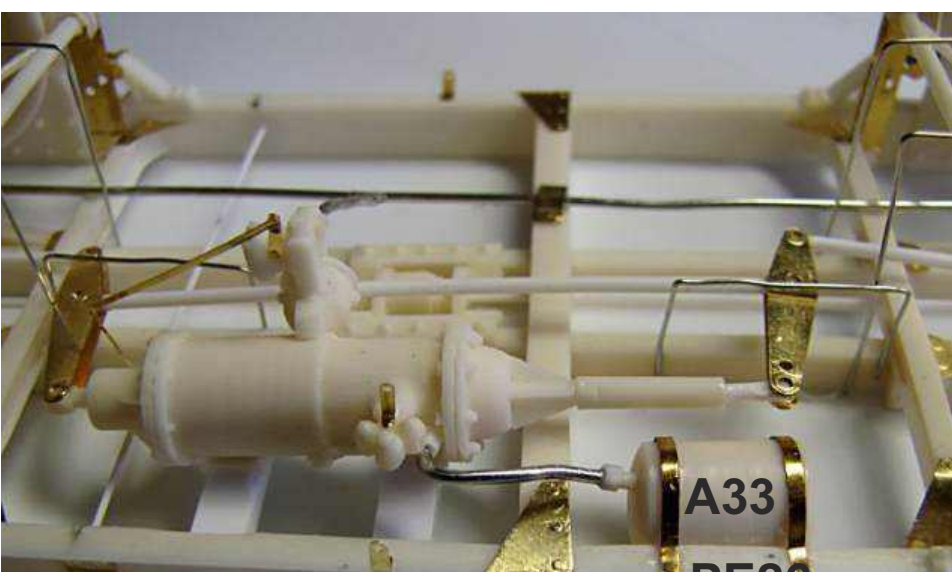
Place axles with wheels into holes in A30 (you might need to adjust also these holes by drilling)  
 Assemble inner PE5 first, add A38 and A31 then - you might need to cut main rod length if needed to position brake blocks properly - glue short arm of A31 between PE brake arms PE12, and finally assemble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







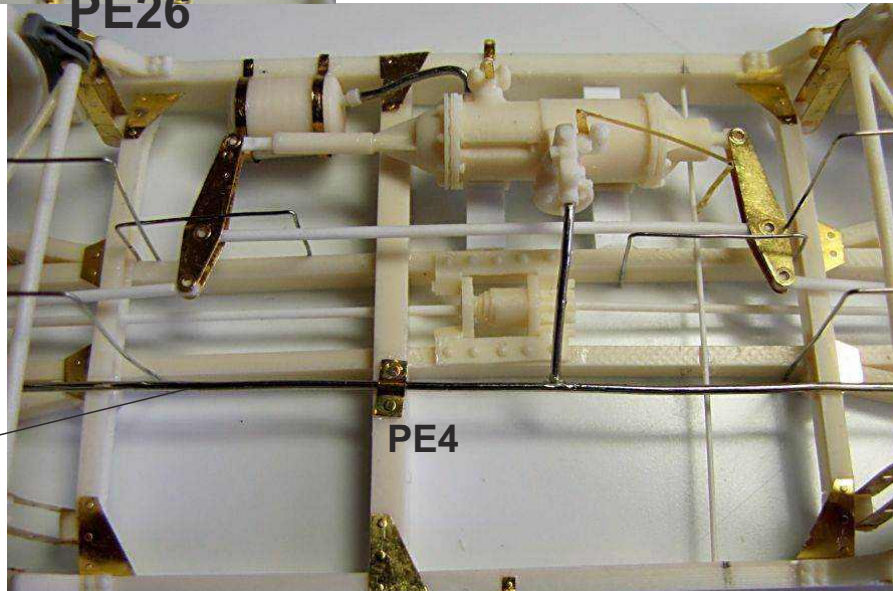
1mm wire with flattened ends to connect cylinder arms with brake arms



A33

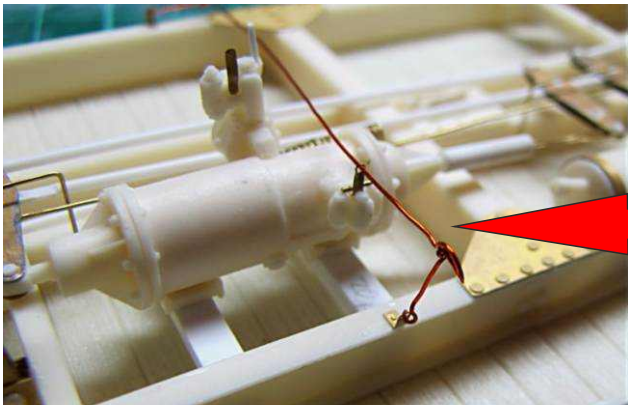
PE26

Use 1mm wire for pipes

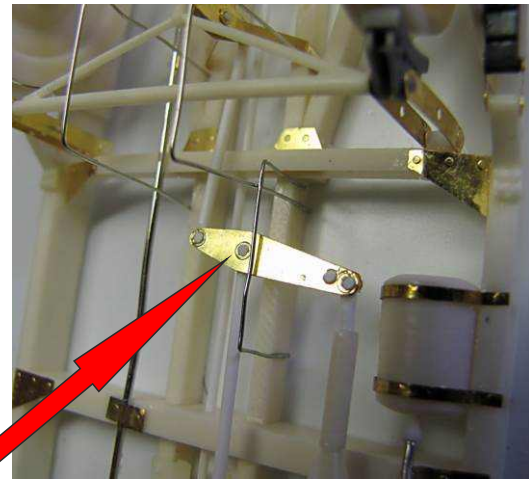


PE4

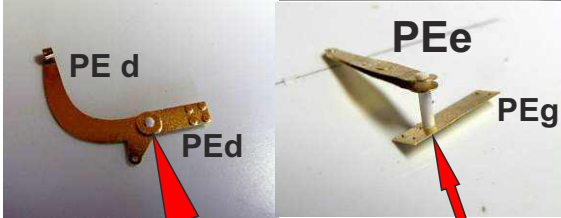
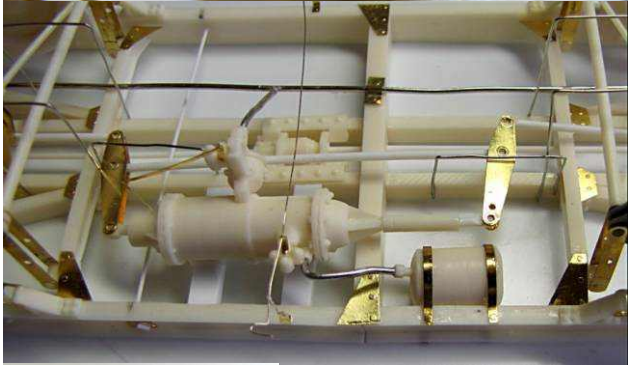




**0,2mm wire**



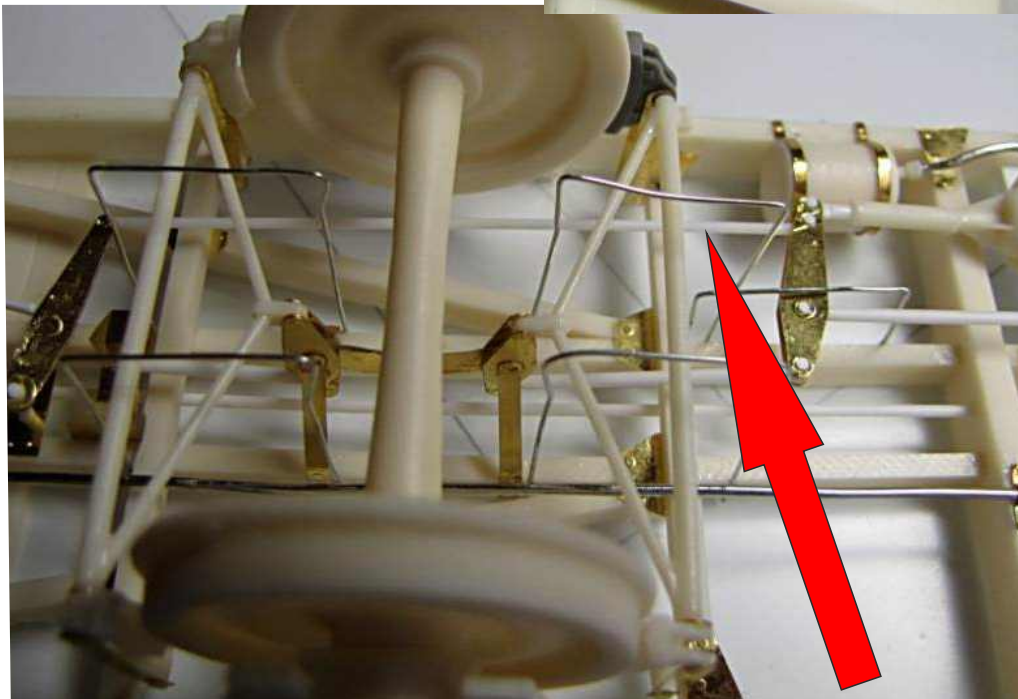
**use thin slices of 1mm rod to make up pins**



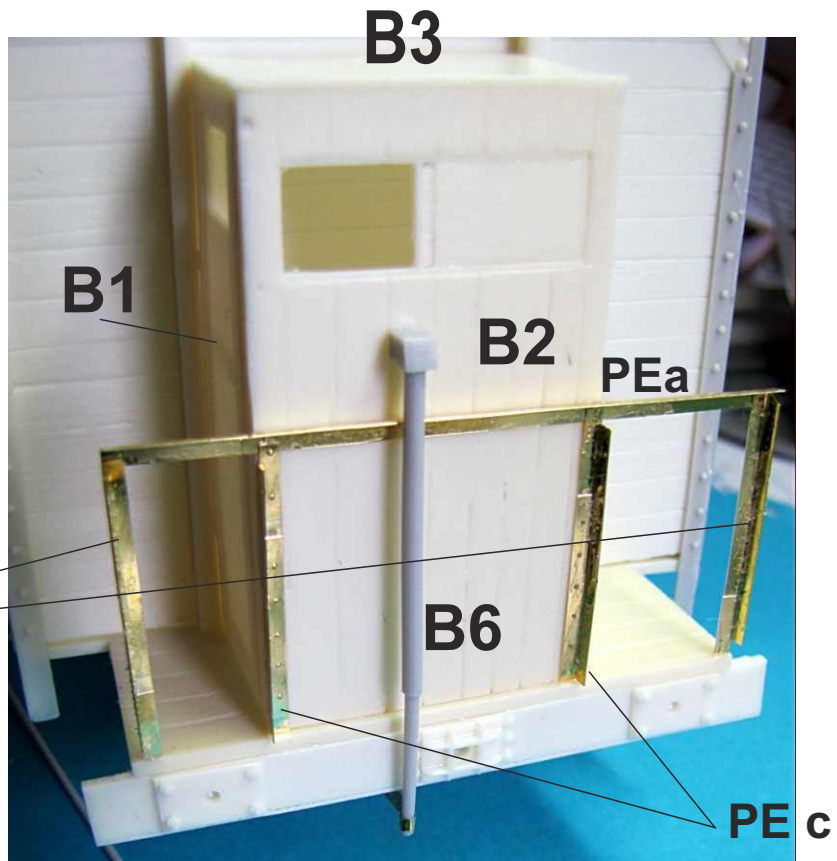
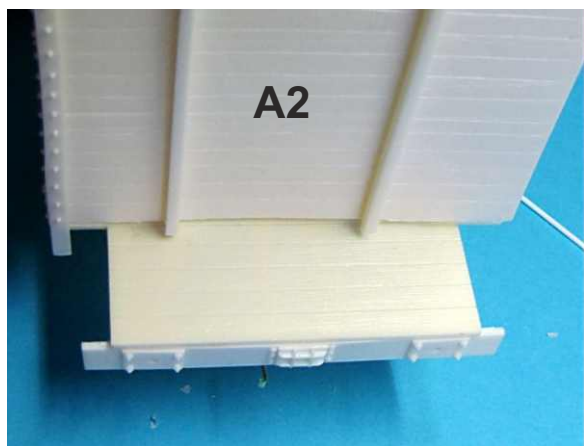
**1mm rod, ends melted with lighter**



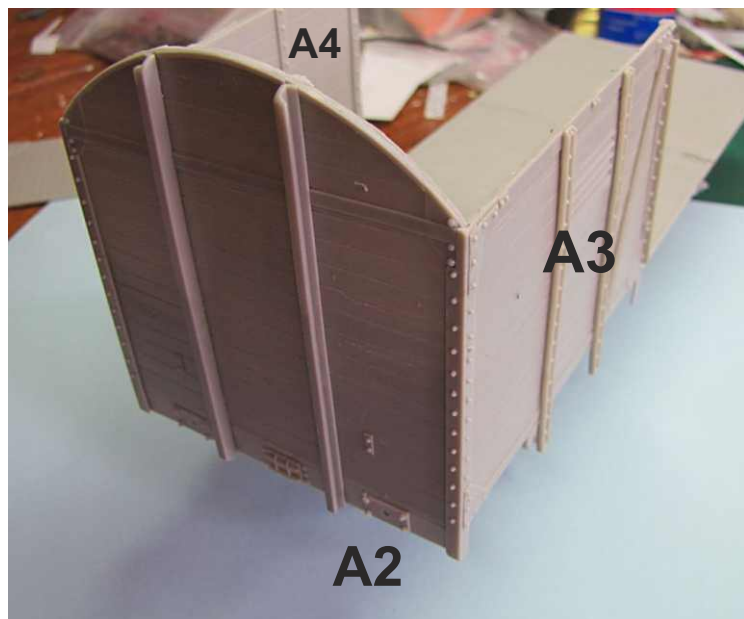
**1mm wire**



**1mm wire**



PE b

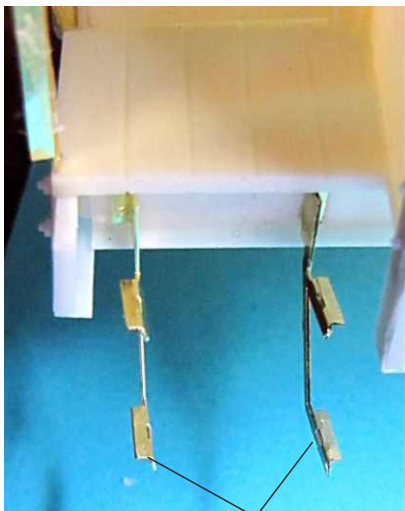
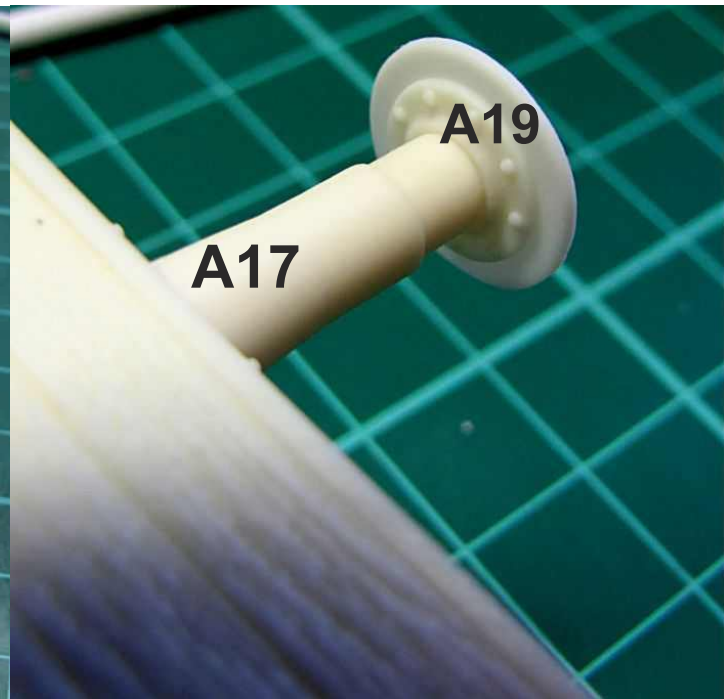
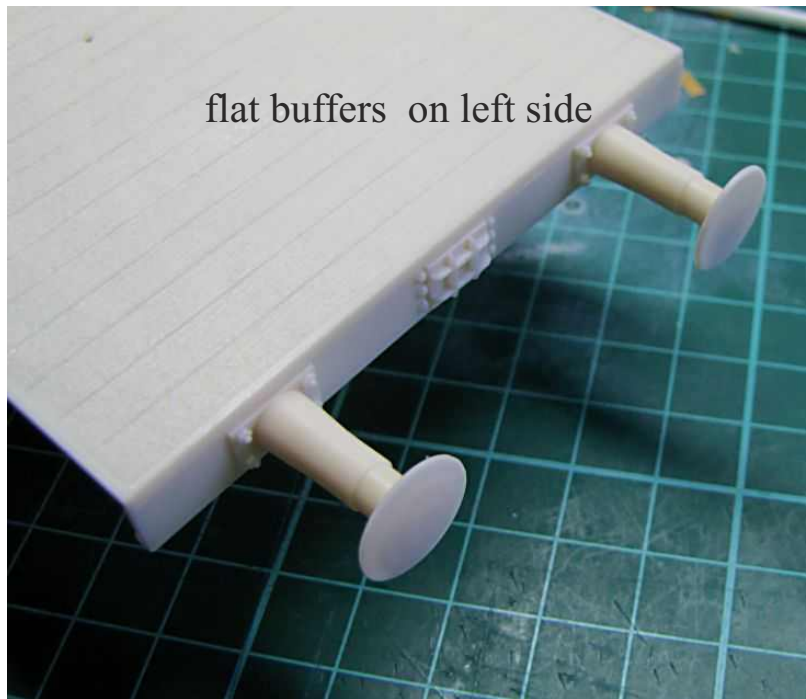
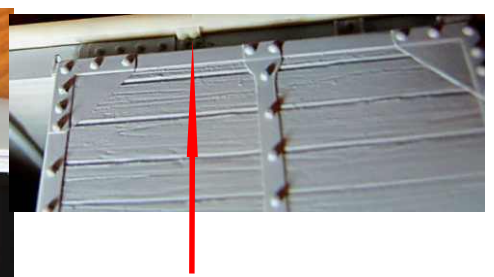
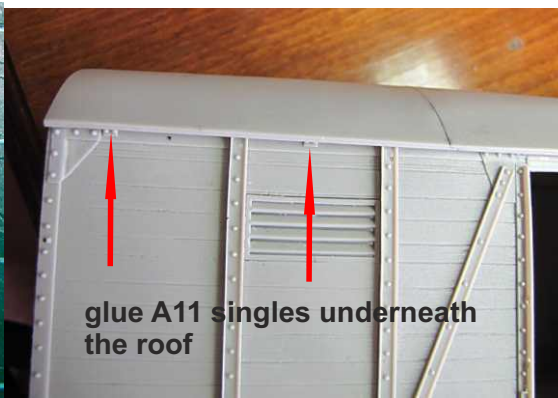
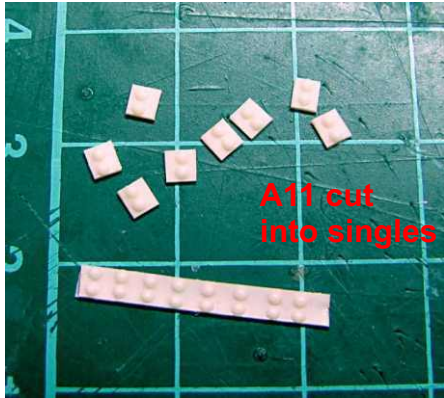


complete twice A3+A4+A2, glue in shutters (closed or opened) A24 for A3, A23 for A4, then assemble both sides on wagon base. Add A22 cut into length needed



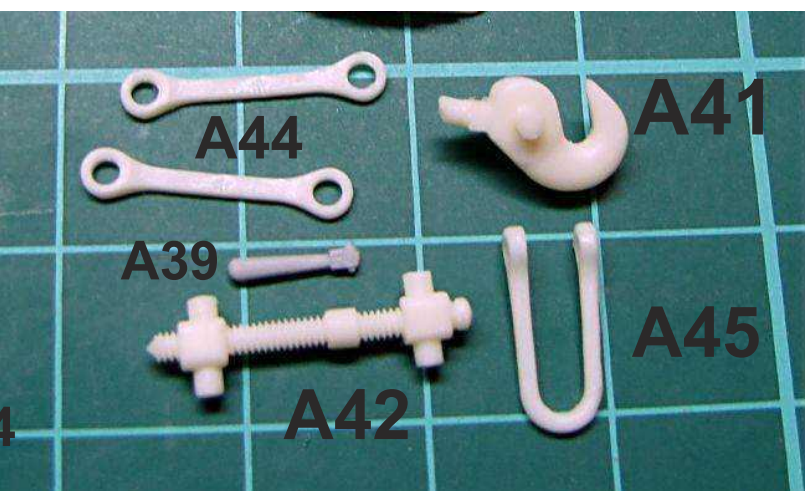
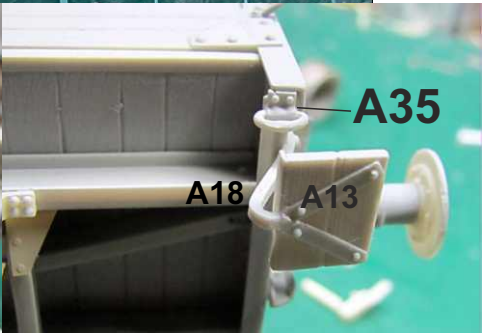
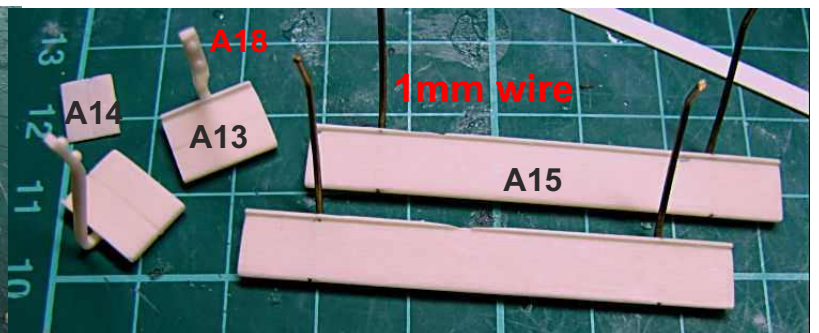
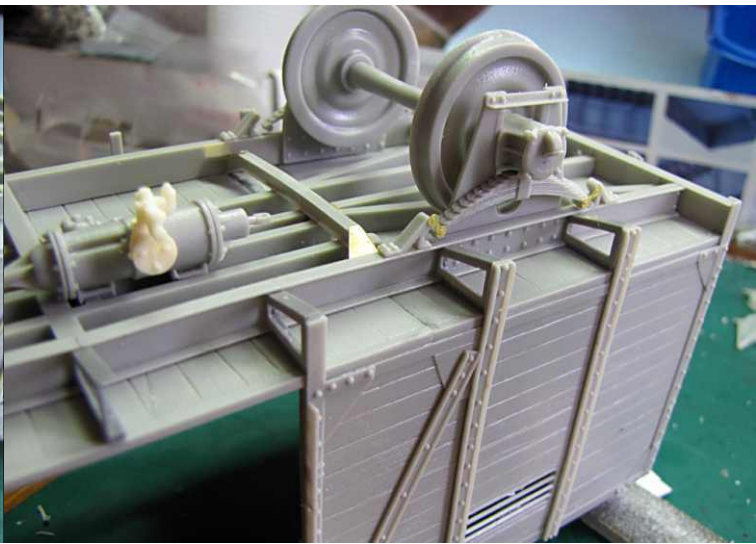
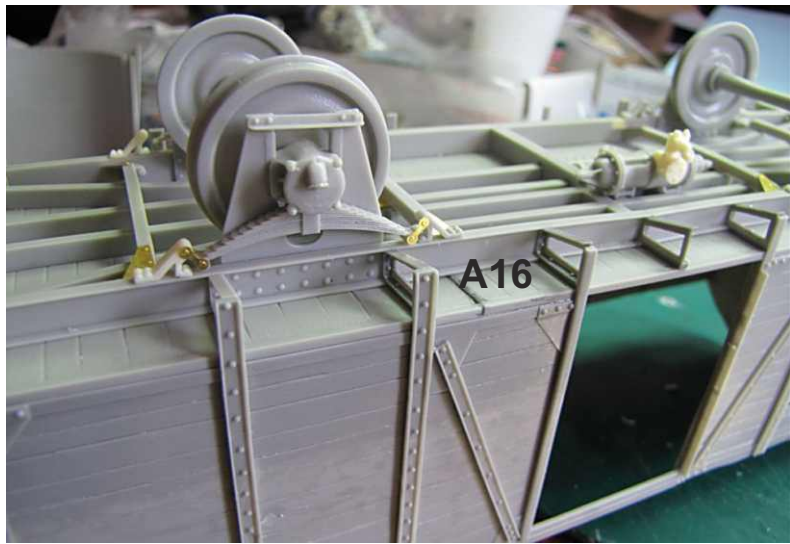


complete roof - roof parts might warp during storage in box, ideally put them on 10cm diameter glass or suitable tub - rod - and correct warp with hair dryer, or put parts into hot water and then around 10cm base to get perfect shape. For easiest way roof parts can be replaced by one piece of suitable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

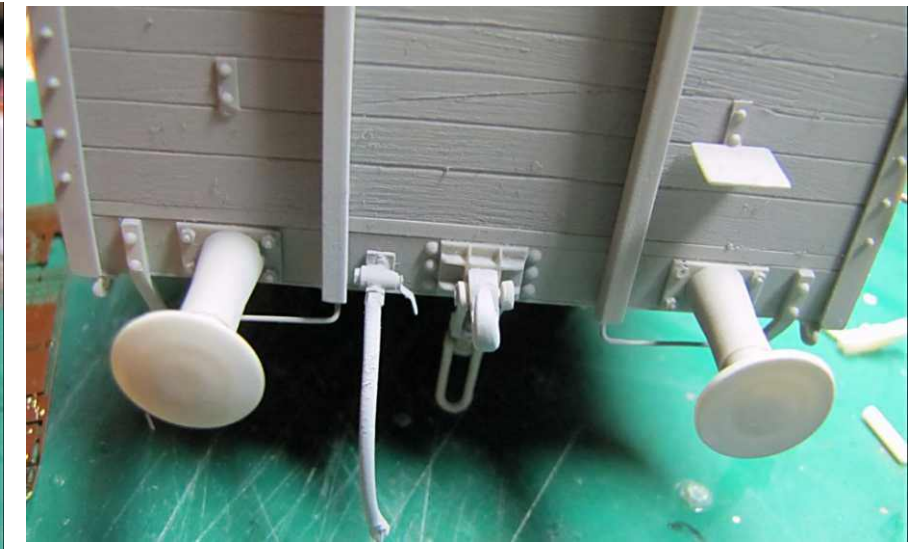
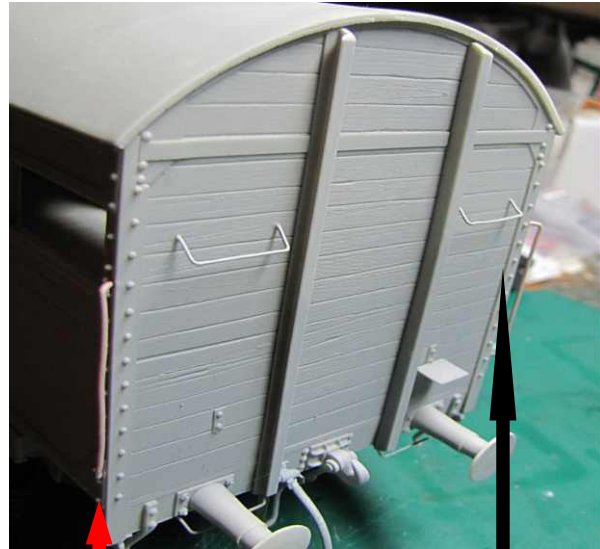
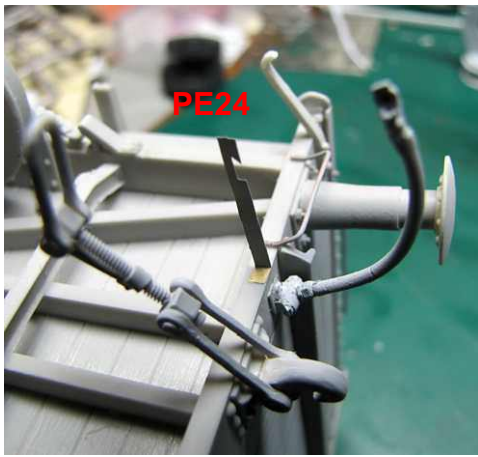


Use PE step board holders from small separate PE sheet,



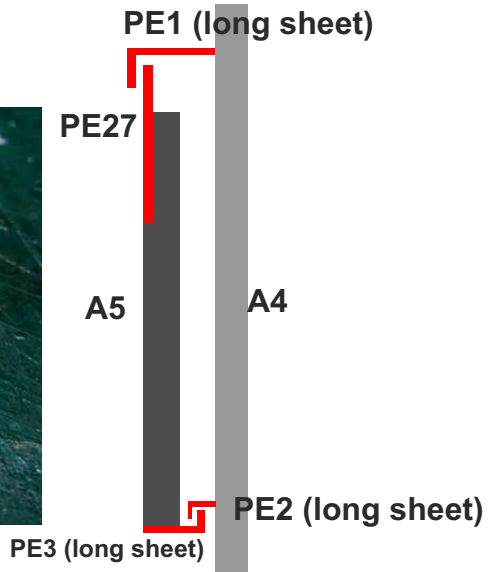
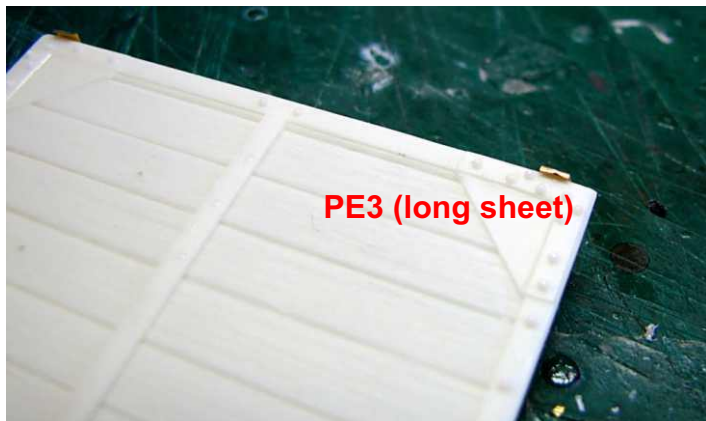


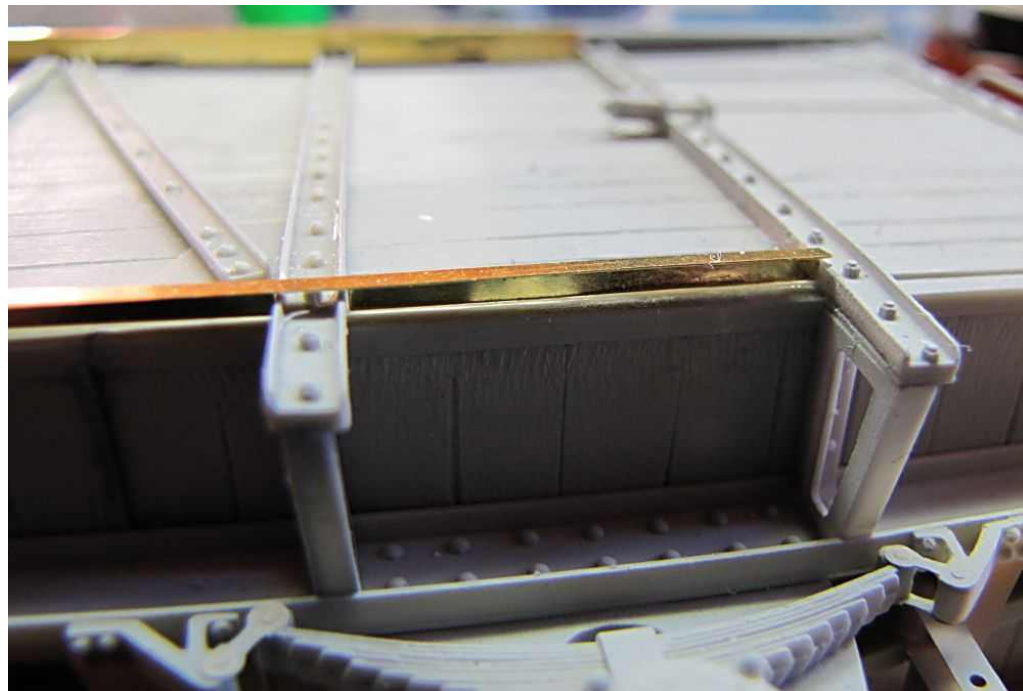
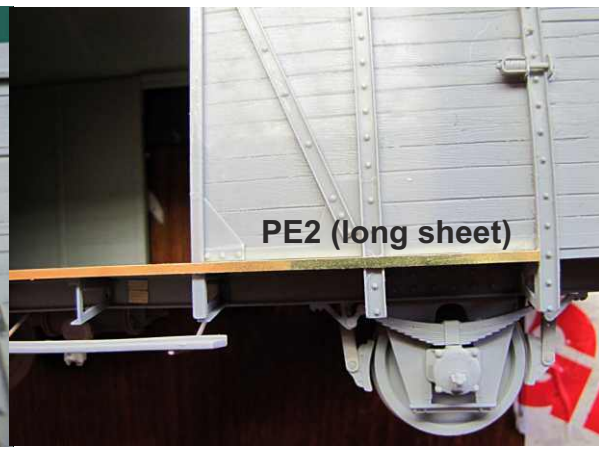




0,8mm wire

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**

