

1/35 LeTourneau LS CARRYALL scraper assembly.

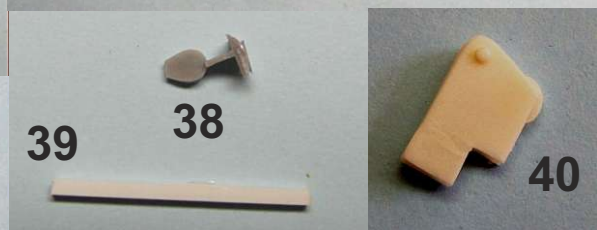
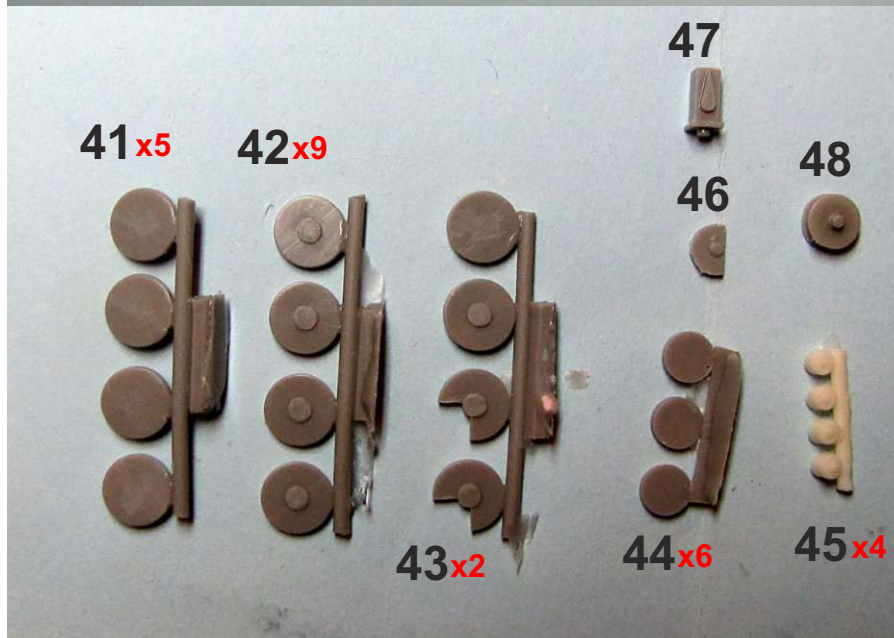
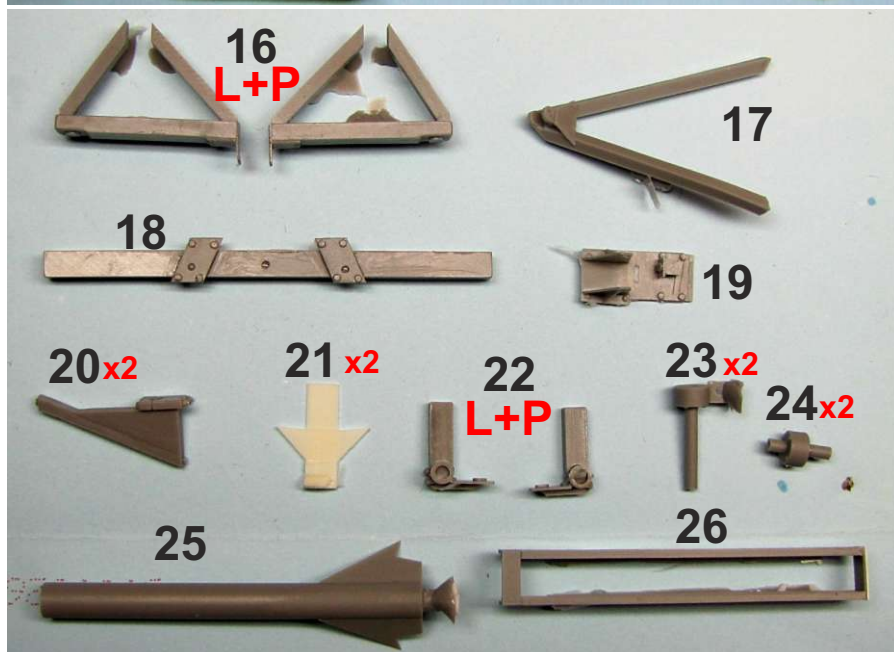
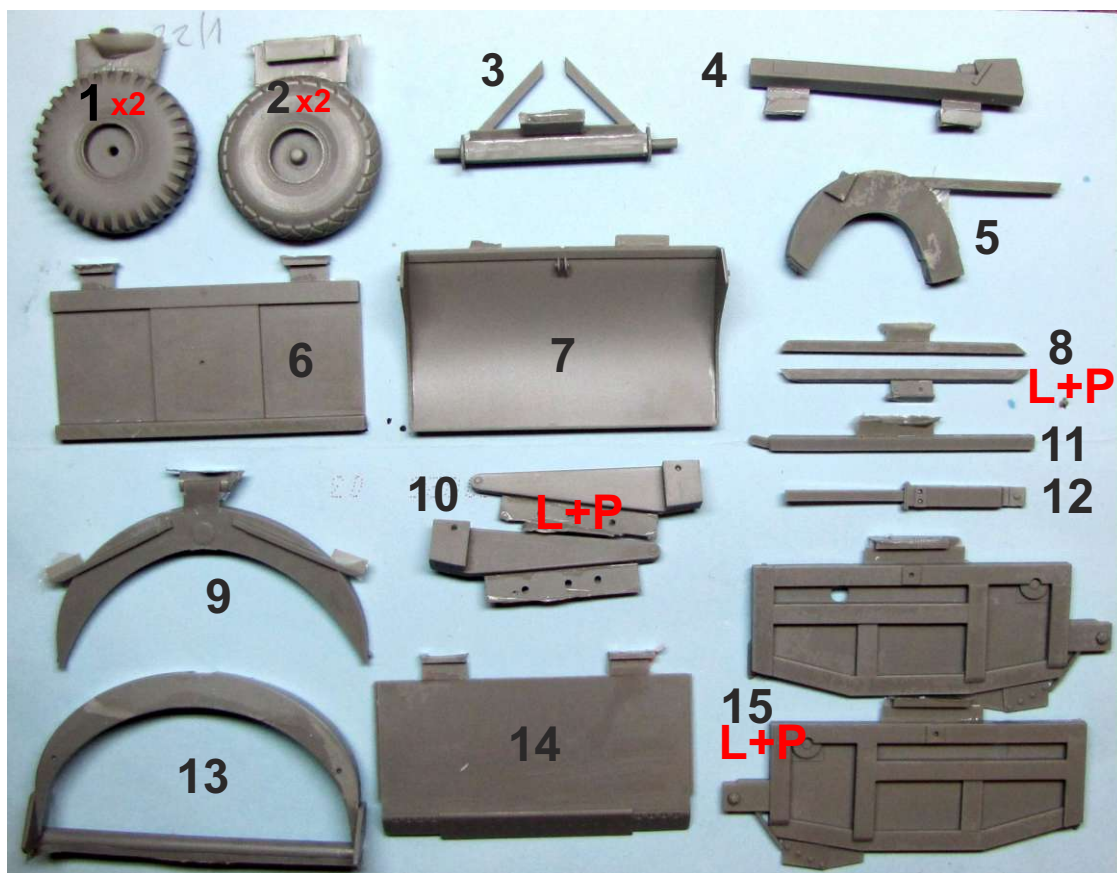
Kit contains some thin, but larger or long parts, some can warp or bend in the box during time period, especially if stored in hotter conditions. It is very easy, but also necessary to fix these before build - simply put them in hot water shortly and let them cool on flat surface like glass. Another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

It is also recommended to wash all the parts prior assembly in warm soapy water.

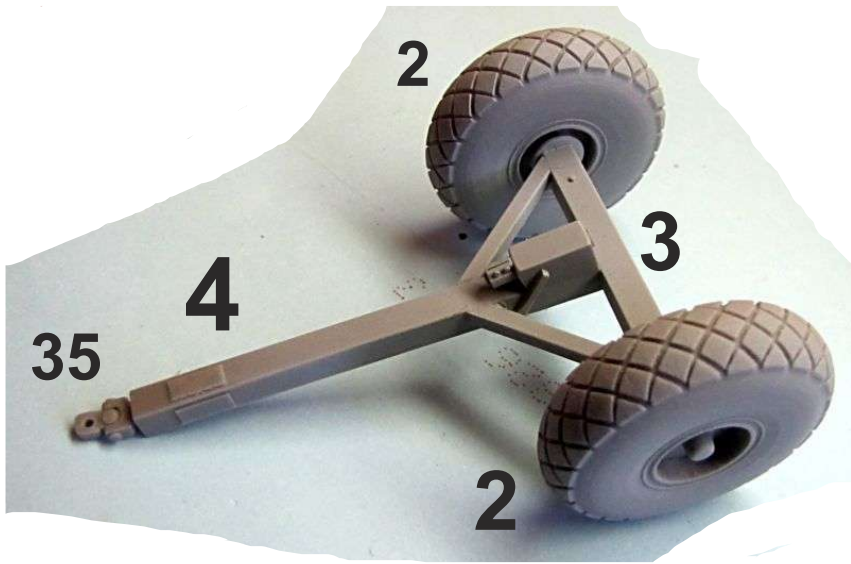
Go through assembly guide before you start your work. We recommend to use a sharp scalpel to remove castings blocks carefully, then most of parts will not require any sanding

Heat up PE parts with lighter before use, brass will soften and become easy to bend and work with, polish them then with fine sand paper to improve quality and strength of glued joints. Good tool for work with PE will make work much easier, some parts need to be bent with precision to achieve the best looking model.

Quality C/A glue is recommended, not cheap supermarket brands. Black Loctite will glue perfectly resin and brass parts, it has long enough set time to fit parts perfectly, and it can also be used to apply big layer around parts and create "welding lines" like looking joints, which will correspond perfectly with appearance of the real thing. You might need to adjust some holes with drilling bits. Otherwise the assembly should be quite easy and straightforward, most parts have "pin to hole" connectors to ensure right placement. Our assembly guide comes as our usual photo guide, we believe in case of resin kits, that real photos can show detailed assembly and exact position of parts much better than any drawings, and PDF file can be zoomed in when needed to see more. Mostly a quick look or fast drawing done on paper will guide you well without need to print most of the pages.



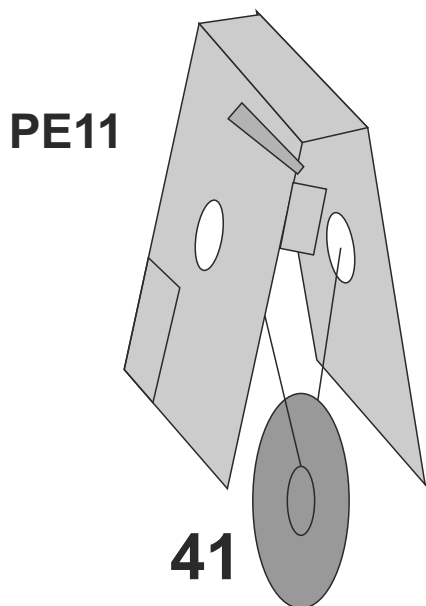
PE sheet x2
scale rope



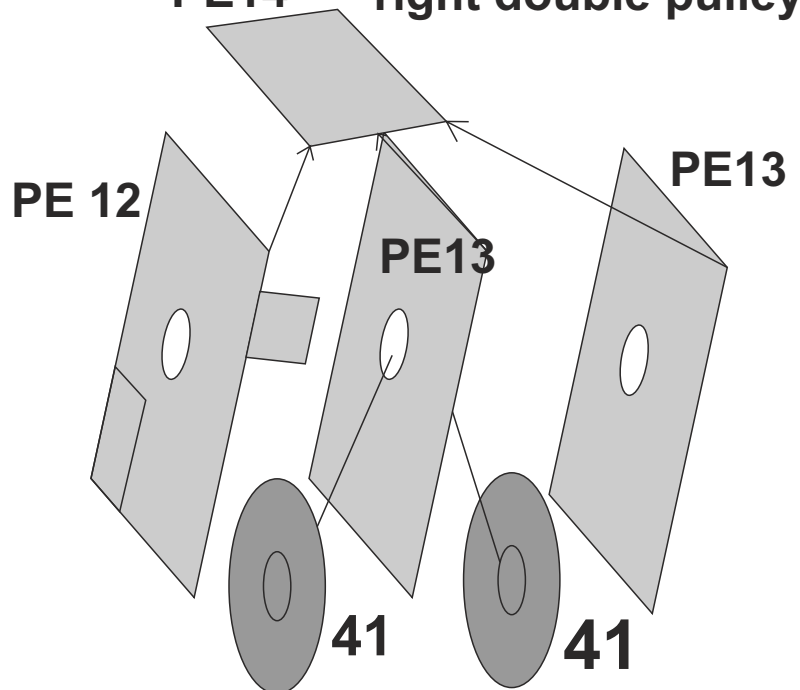
some kits have had
parts 3+4 cast in one
piece



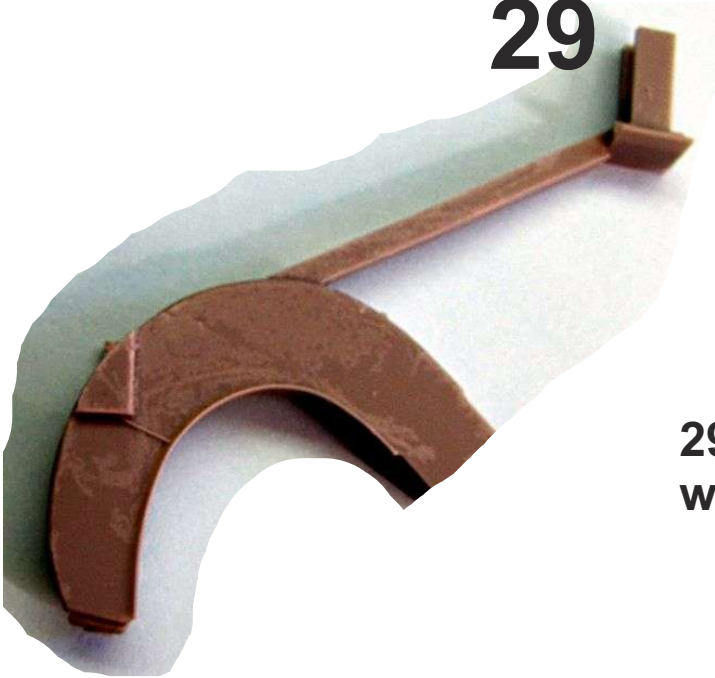
left pulley



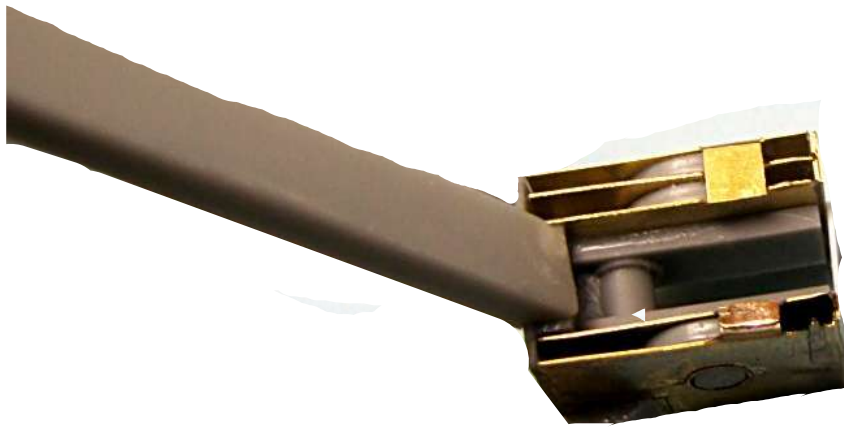
PE14 right double pulley



29

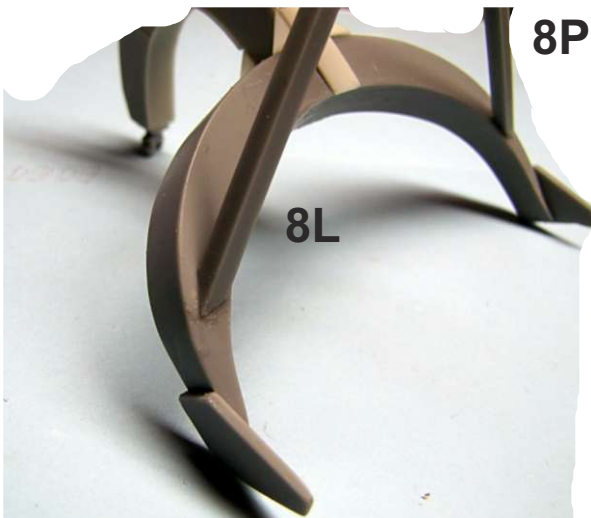


**29 - assemble in centre to part 5
wider offset on the right side**



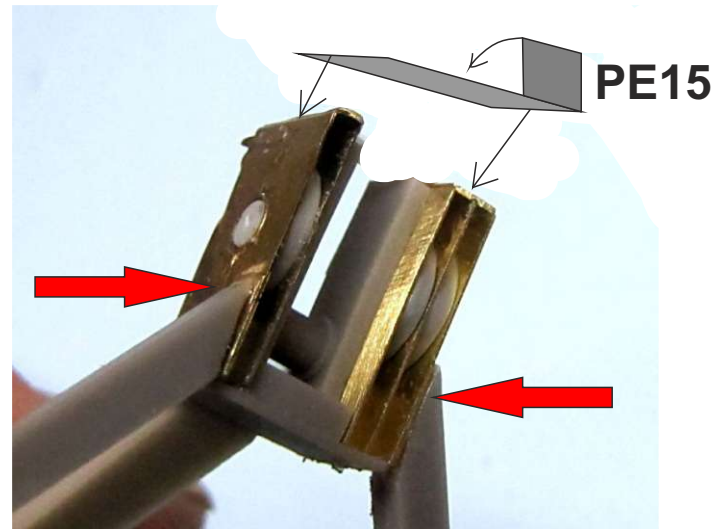
right double pulley

left pulley



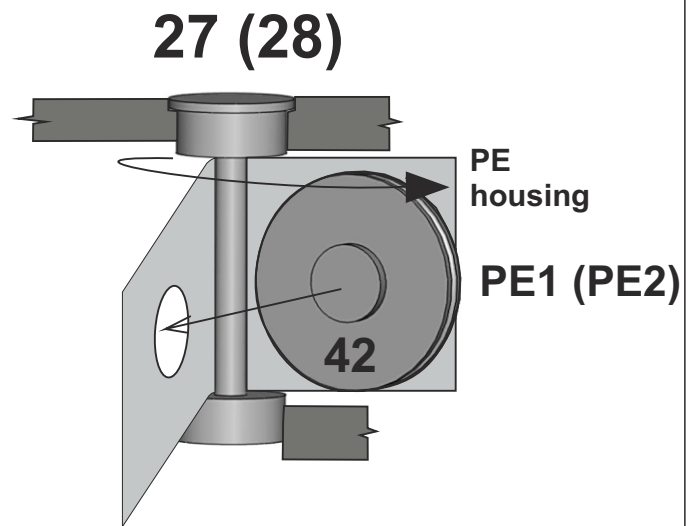
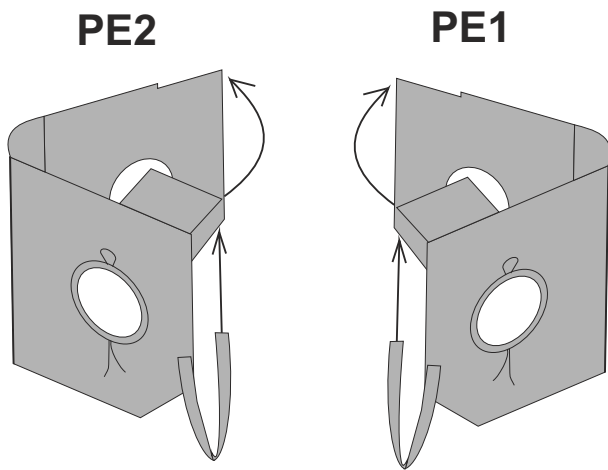
8P

8L

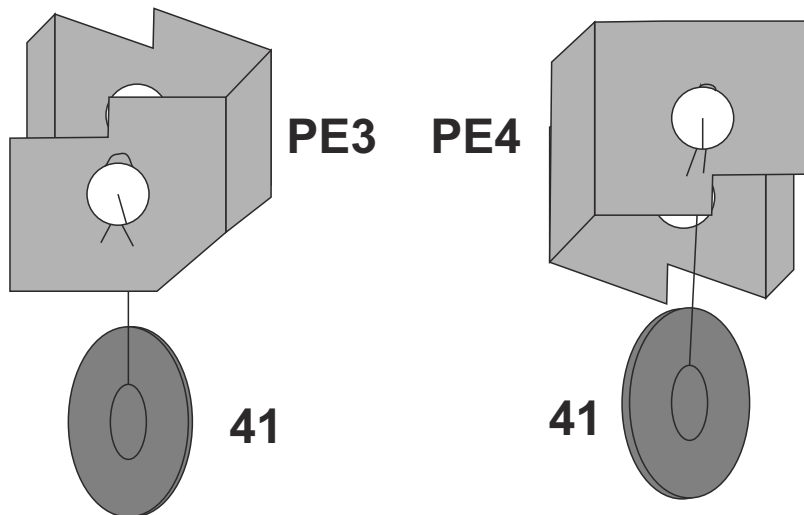


**assemble parts 8, you might need to
sand a little ends which join
raised surface on PE. Tiny excess
of glue can help to create an excellent
looking welding lines**

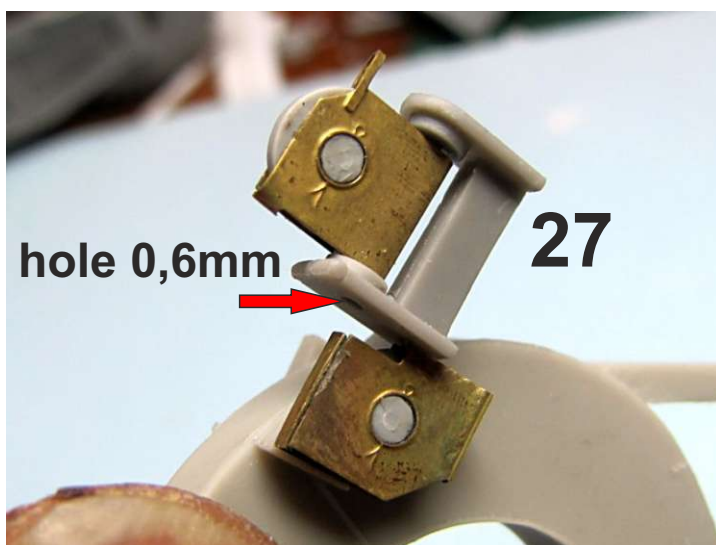




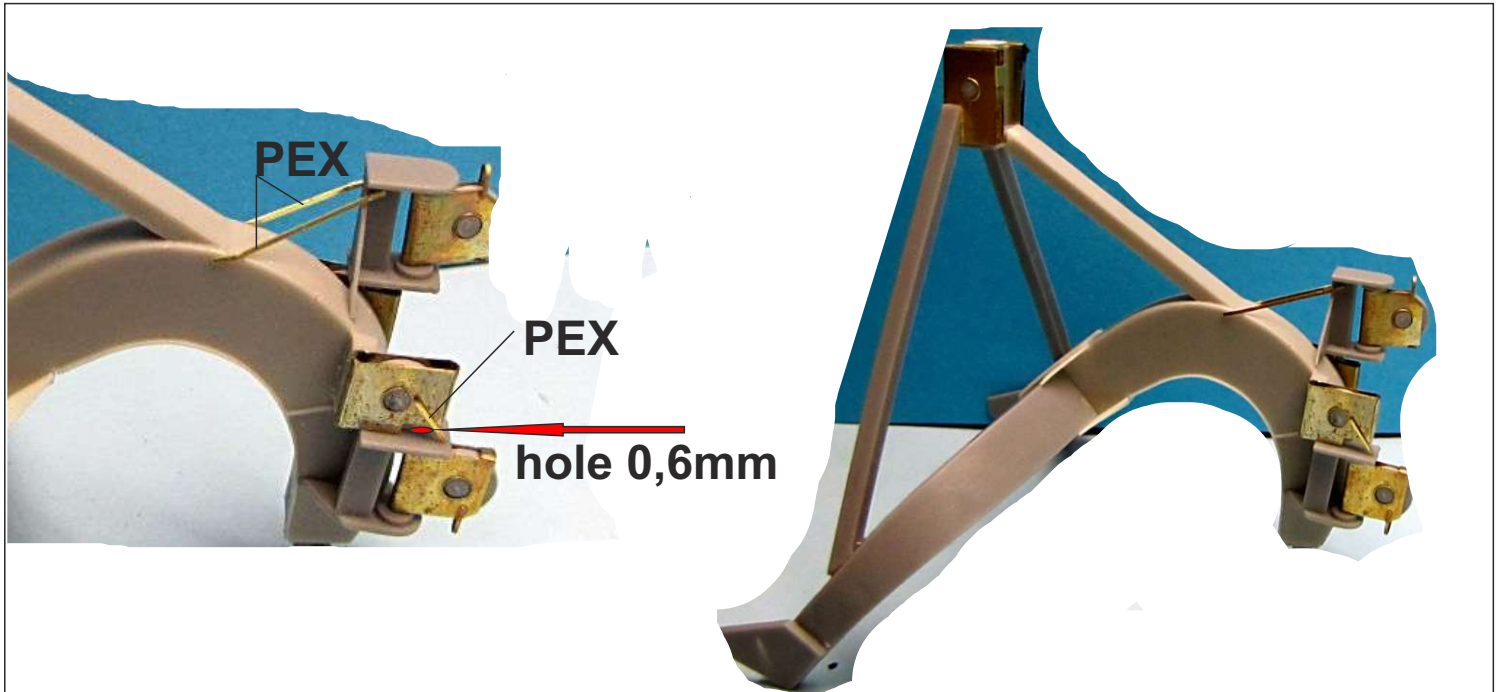
**pre-bend PE parts, then assemble PE2 with 28 and PE1 with 27
mind direction of leading eye (PE1 down, PE2 up)**



**prepare PE3 and PE4
+ 41**

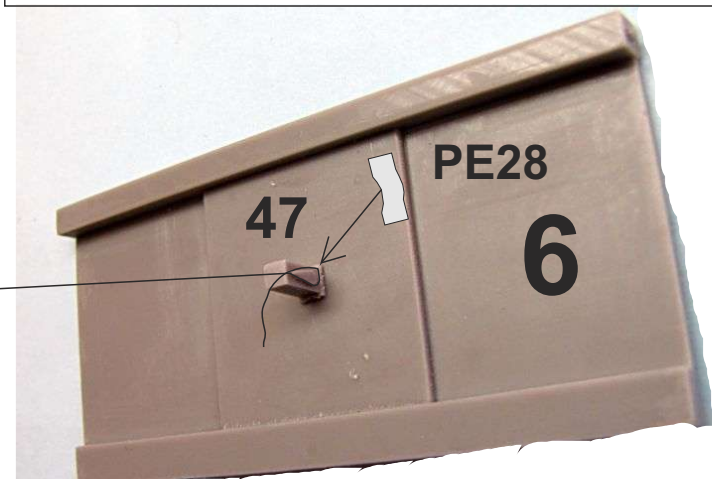
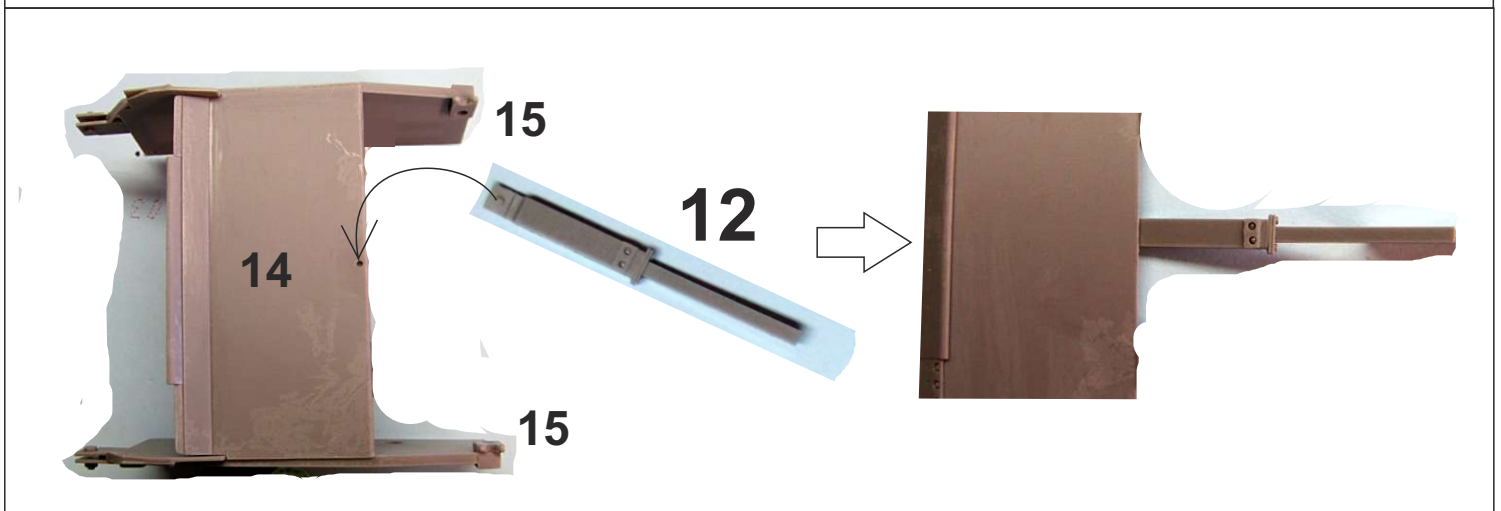


**assemble PE3 first on 5
then fit 27 with pulley PE1
right above the pulley PE3
as shown**

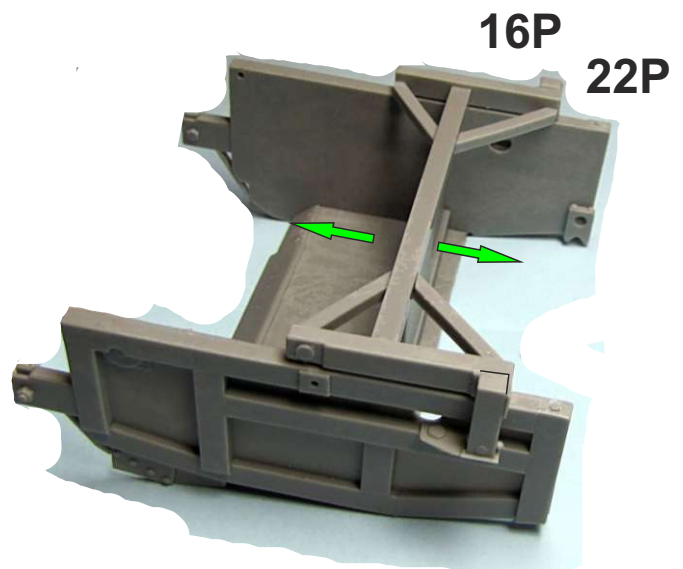
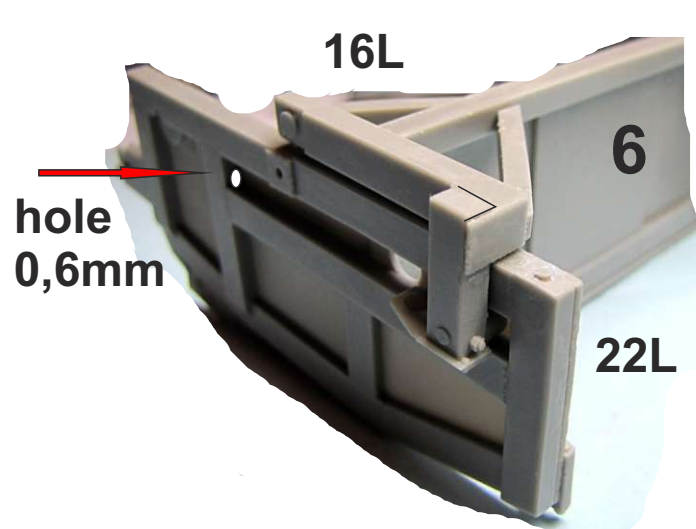


assemble PE4 first on 5 then fit 28 with pulley PE2 right below the pulley PE4 as shown. If you want to pul ropes through one pulley to another, drill again hole 0,6mm

Use PEX strips to create additional holders



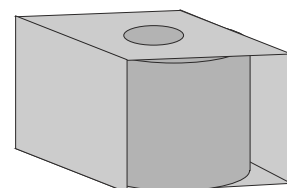
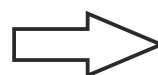
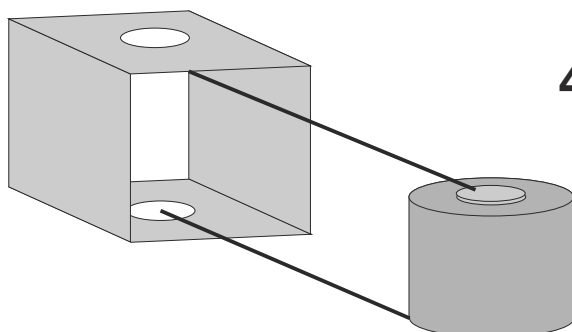
pul rope around the raised "drop" on 47 and secure with clamp PE28. Keep about 10cm length that will be fitted later



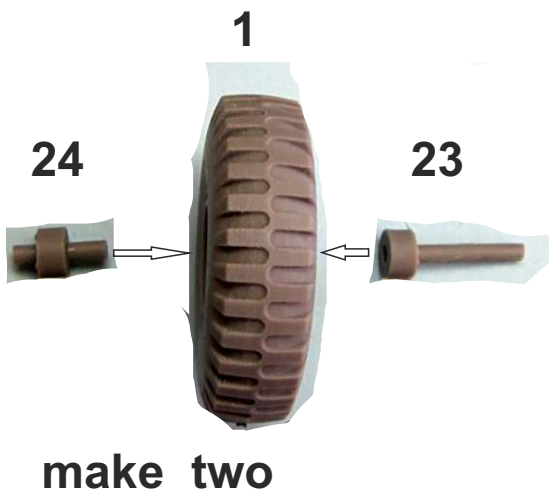
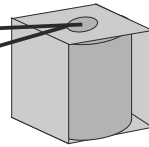
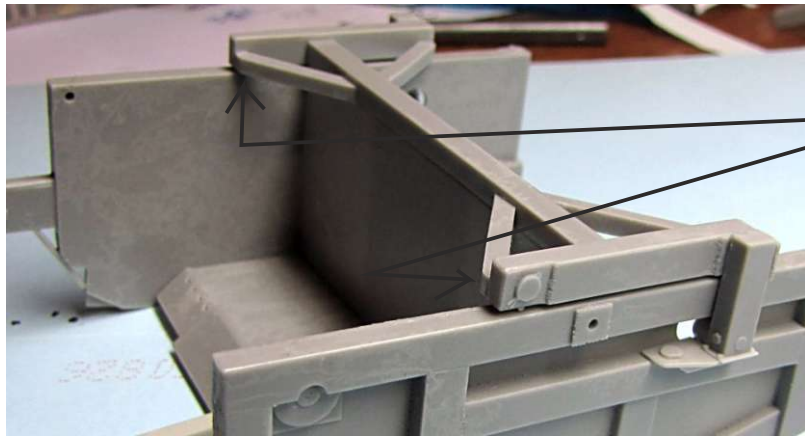
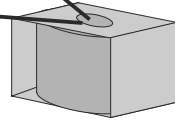
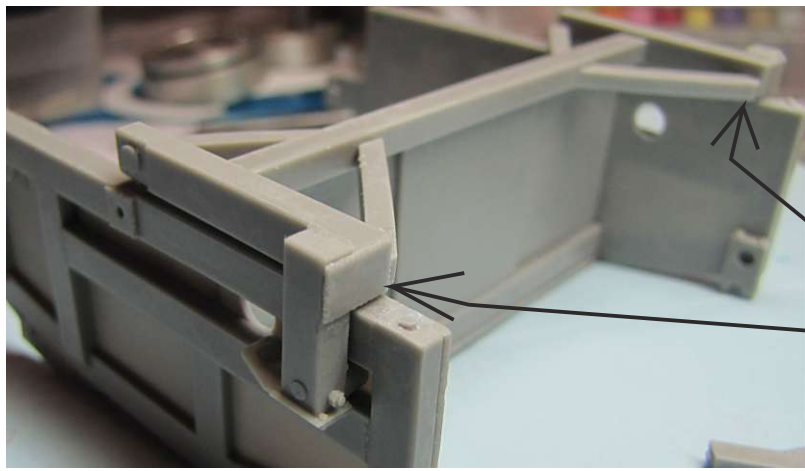
place 6 between sides 15, assemble 16L and 16P, and secure with 22L and 22P - now part 6 should be movable, you can keep it that way or secure with glue in required position drill holes (they are marked on the beams) for ropes on both sides. Pull rope around raised "drop" and through opening to pull around the front pulley and cut as shown below.



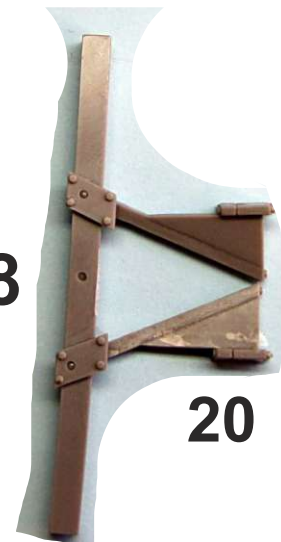
PEc

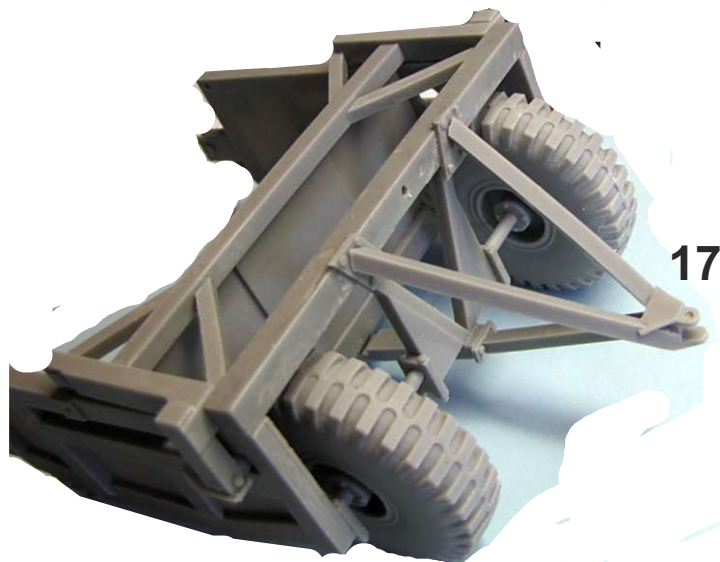
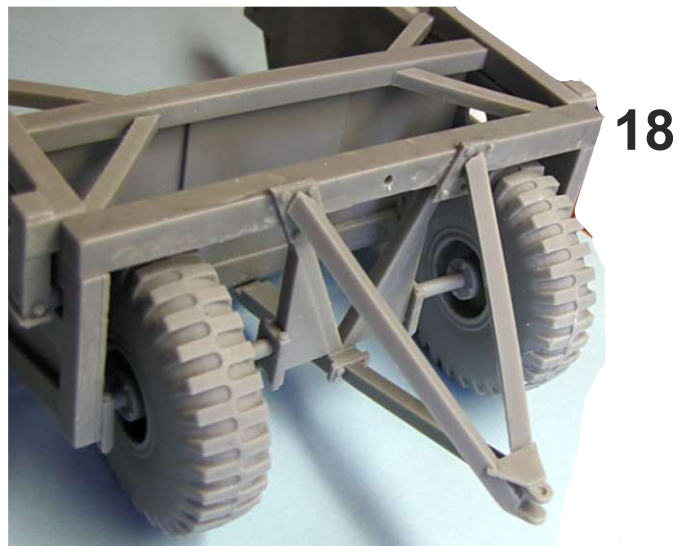


make four



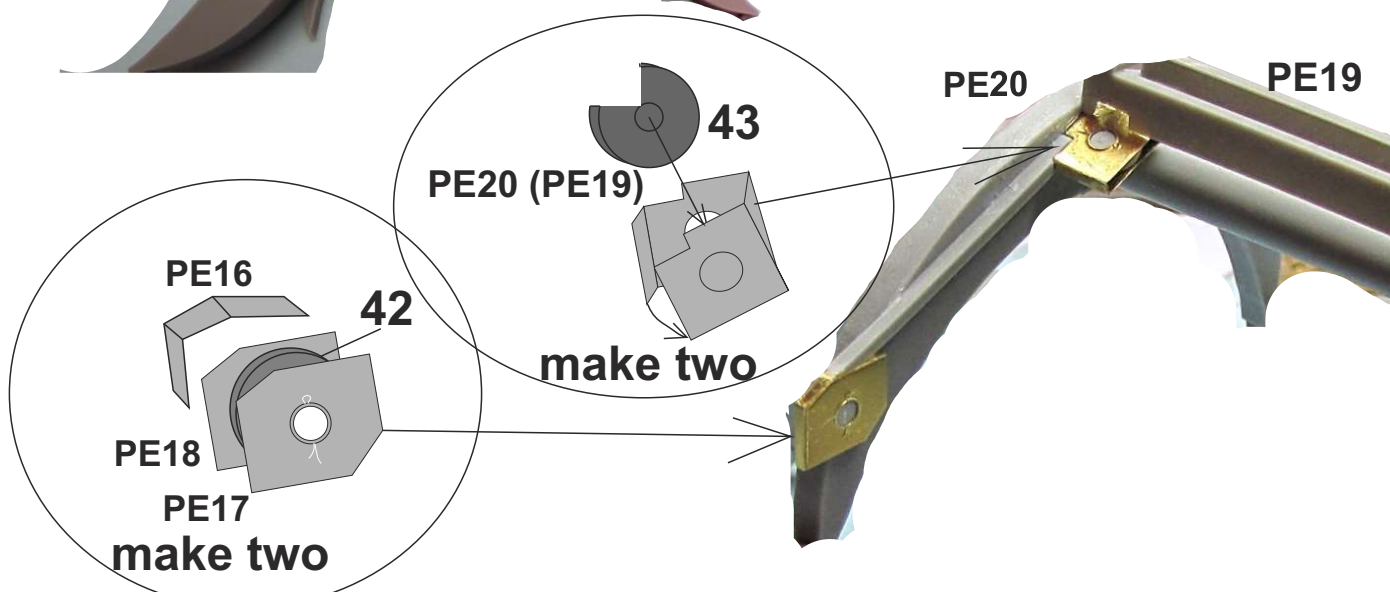
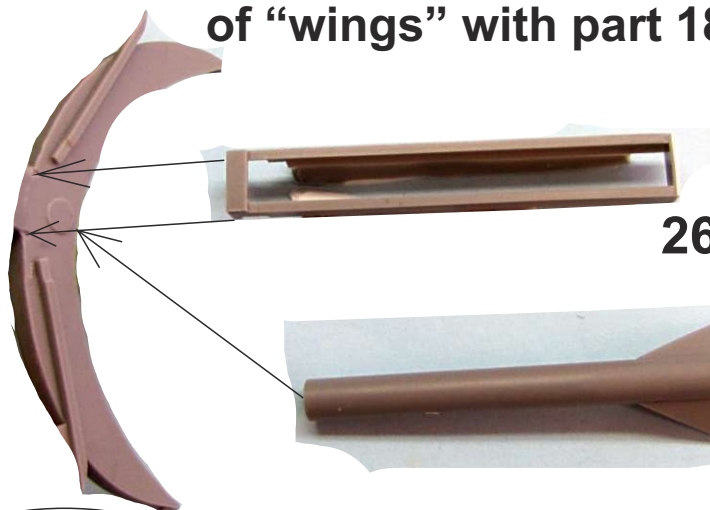
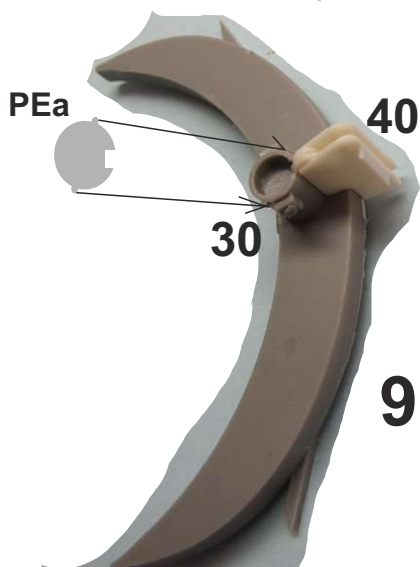
18

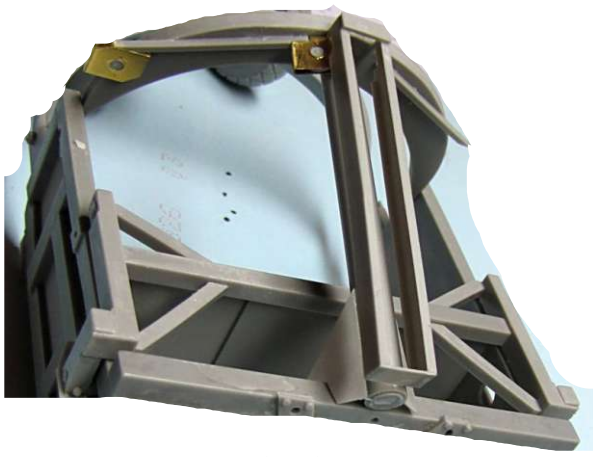




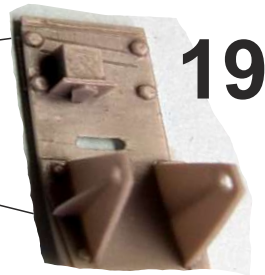
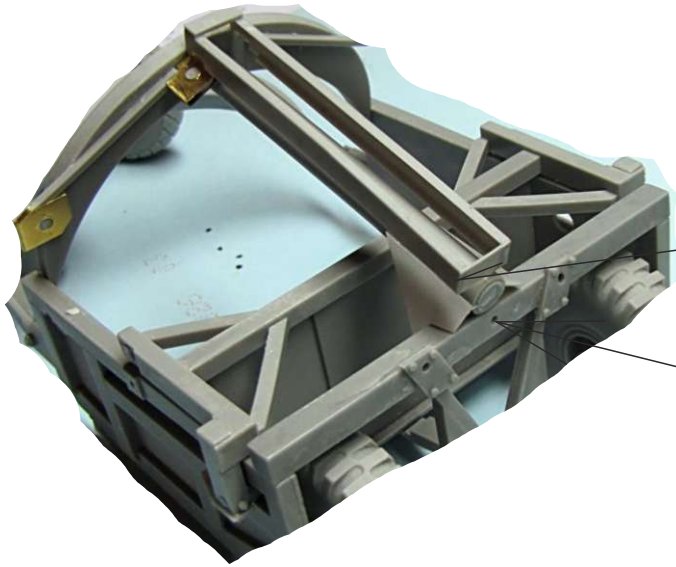
Assemble crossbeam 18 and fit both parts 20 into 12 - control properly angle, all 4 housings for wheels and axles have to be one straight against another. Fit the wheels - cut longer inner axle 23 to be about 1mm longer than needed, then pull side carefully out a little - to stick out short axle into the housing on the scraper side. This way you will get wheels turning for easy painting later. Assemble top fork 17 in holes first, then fit its very end with part 12

Dry-fit 25 first and check angle of "wings" with part 18 - next page

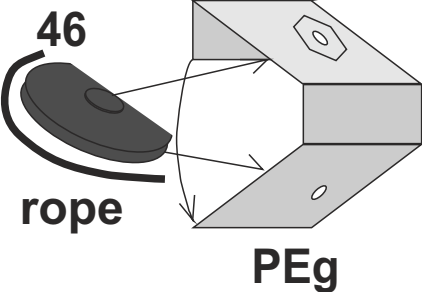




Assemble "A" frame 9 between sides, no need to glue yet - fit "wings" on part 25 in center of beam 18, add part 19 and secure all parts now with glue (fair amount of glue can again create nice welding lines)



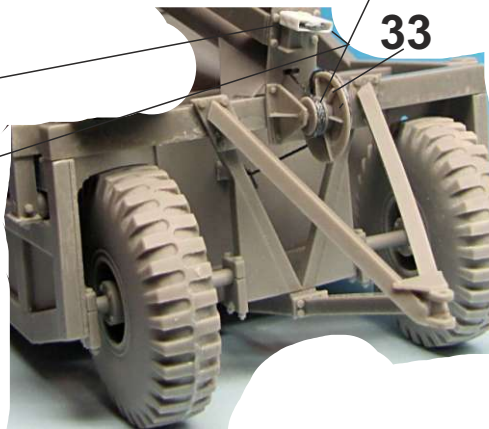
19



46

rope

PEg

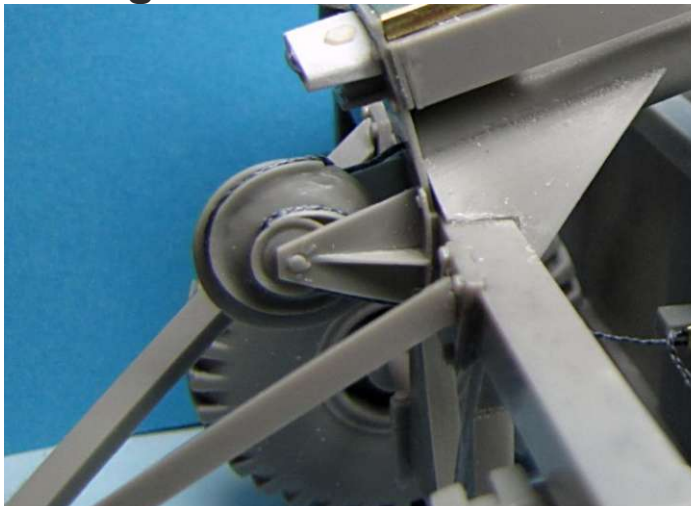


48

33

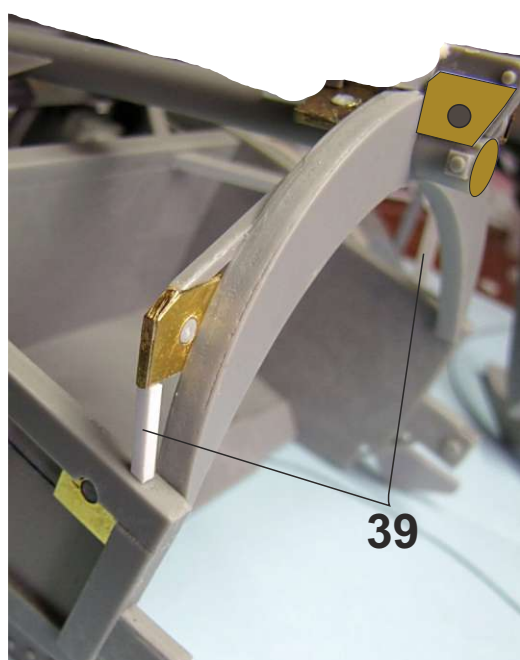
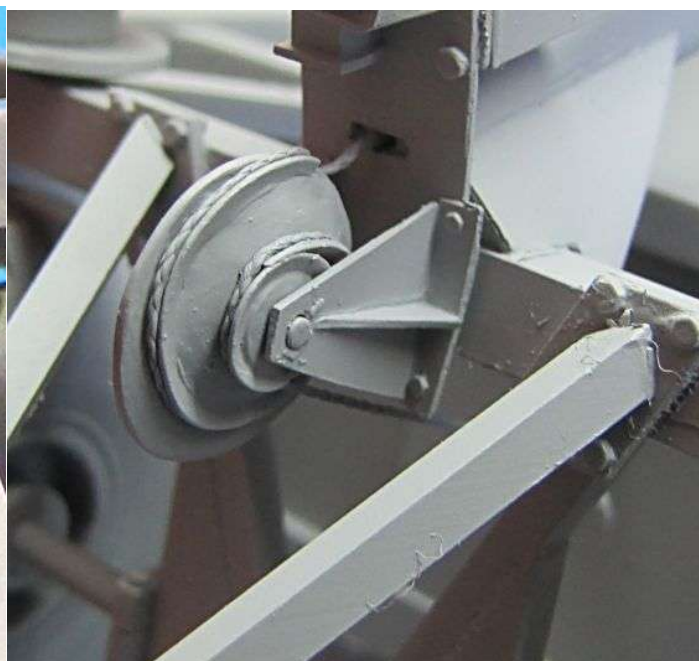
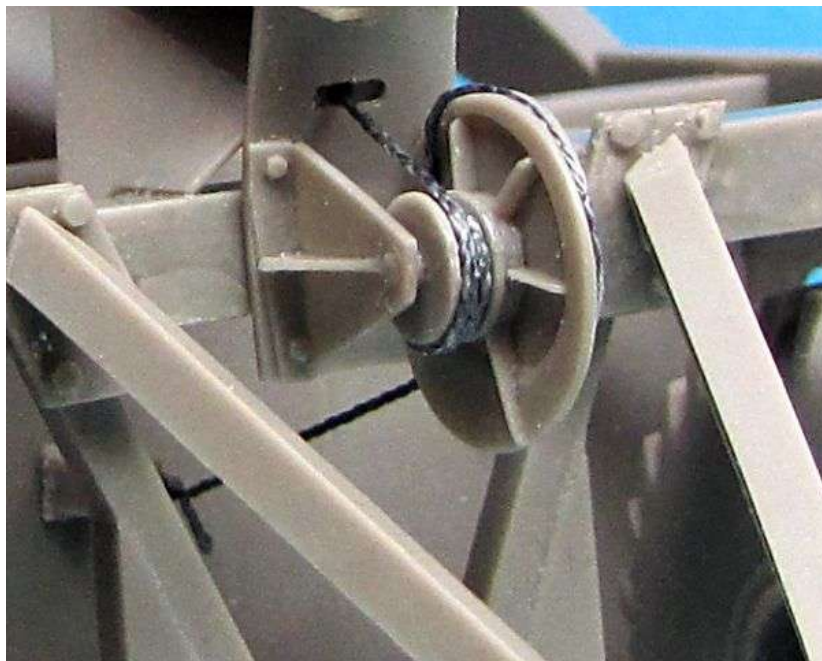


assemble PEG with pulley 46 and fit onto 19 - there is a line that shows its position and angle - this pulley is bevelled to the right. Add 48+33, roll some rope around 48 and pull it into slot in 19, then pull rope from part 47 you assembled earlier around screw on the right as shown. Assemble 32L and 32P with 31 and glue in place



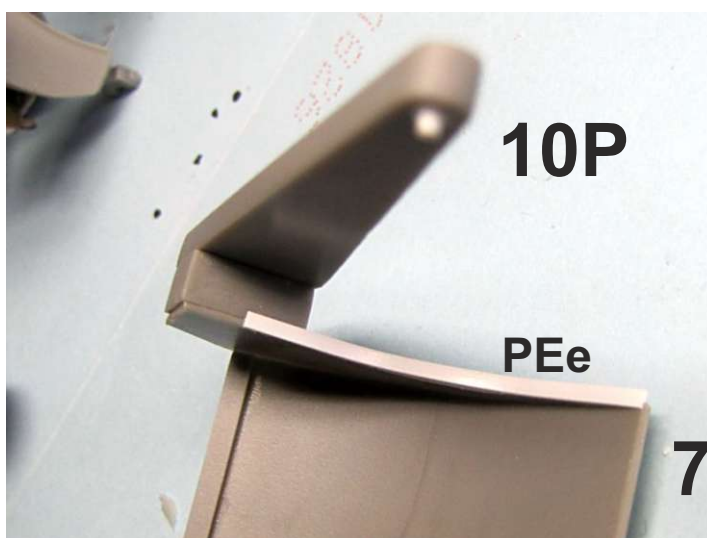
**32L, 32P
+ 31**





PEf

39



10P

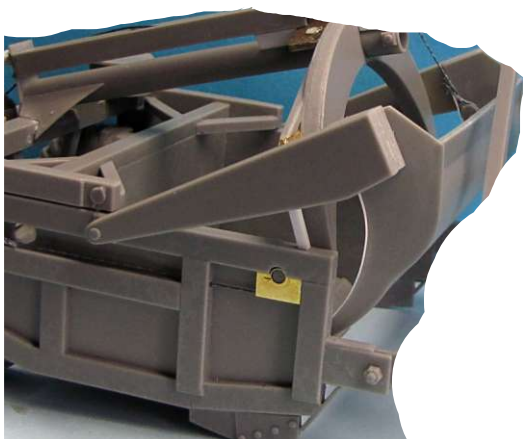
PEe

7



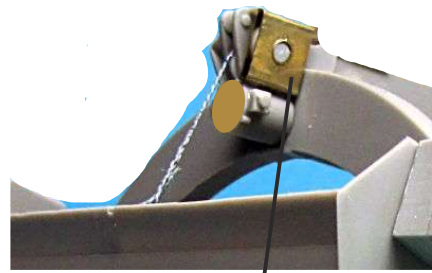
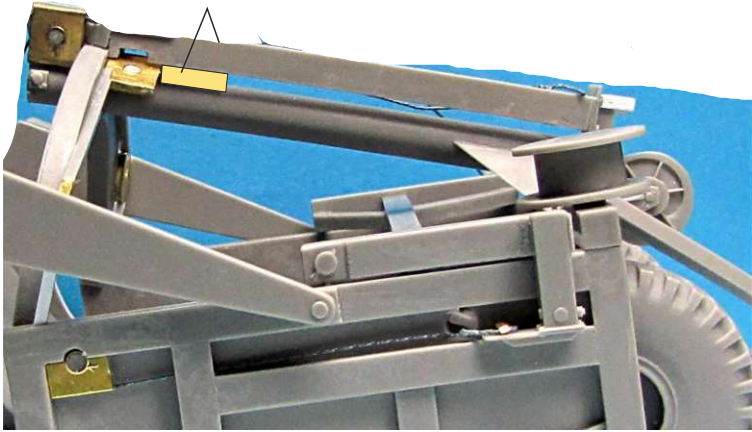
38

10L



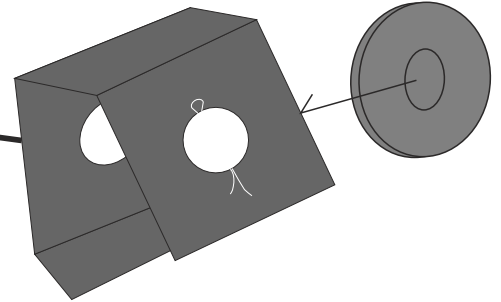
Assemble 10R and 10L with 7, add PE strips e (check it fits between the sides), add 38 with length of rope leaving it for later finish as shown. Apron 7 can be assembled closed or opened in any position

PEd



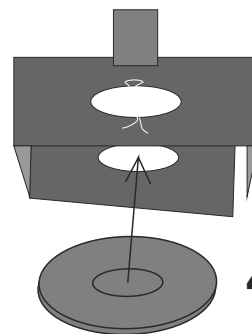
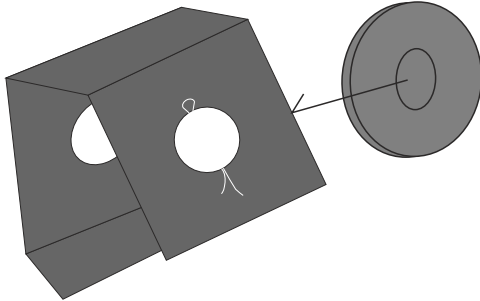
PE5

42



PE6, PE7

42



PE8

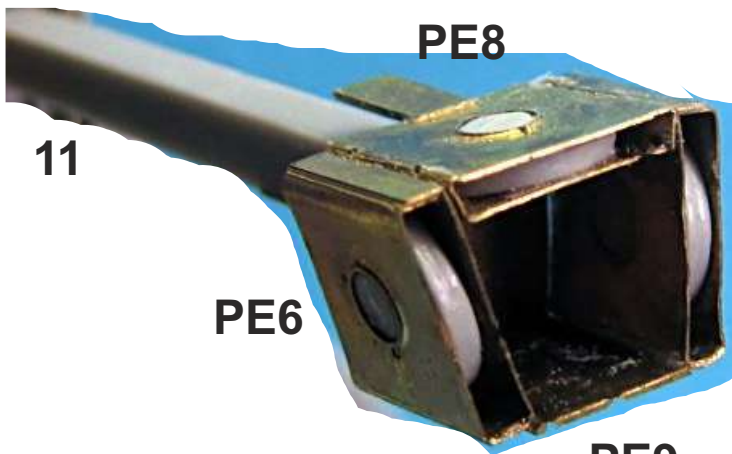
42

PE8

11

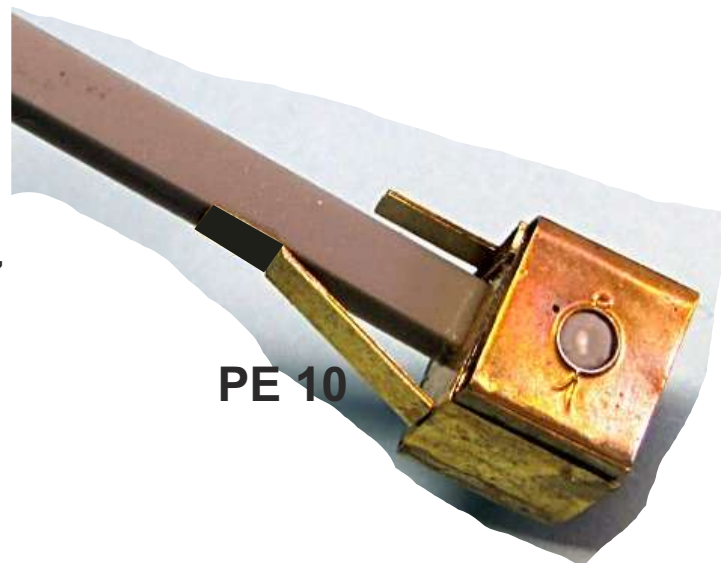
PE6

PE9

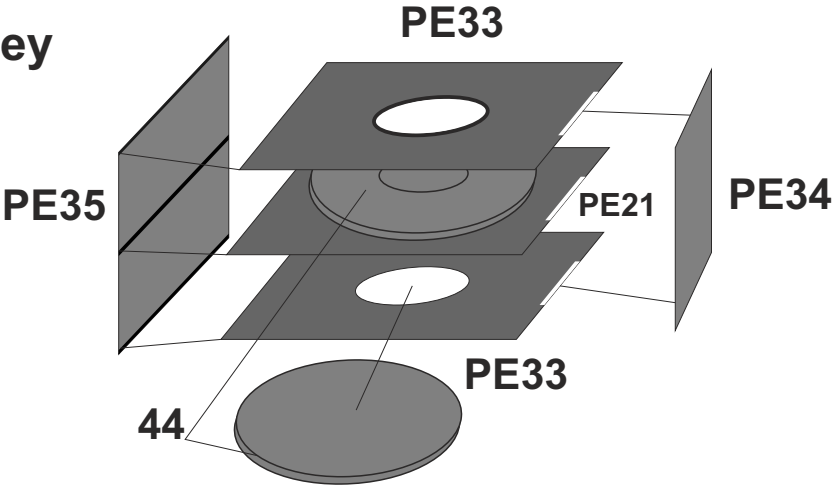


PE7

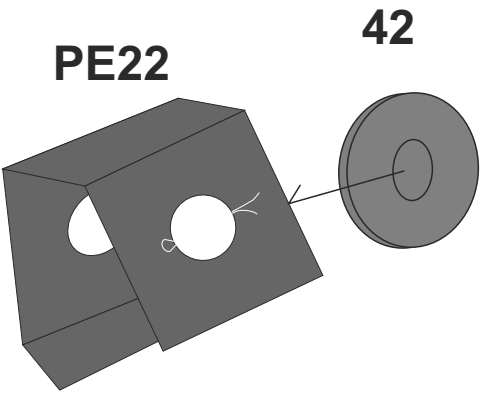
PE 10



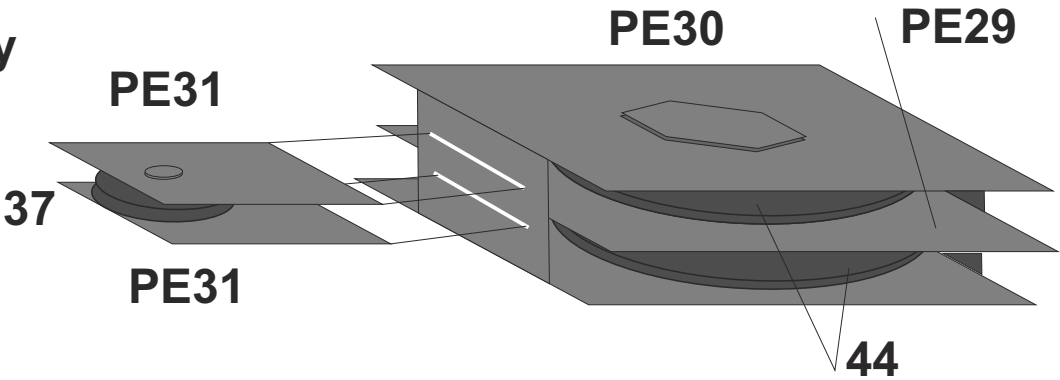
rear bottom pulley
“AA”



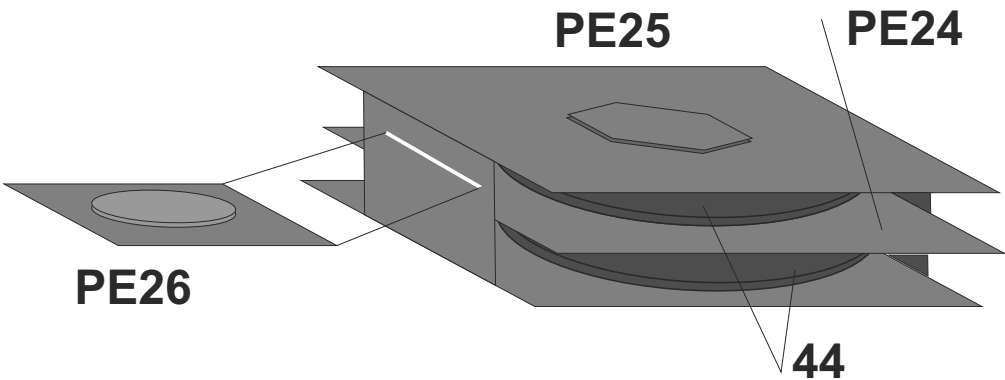
rear top pulley
“BB”

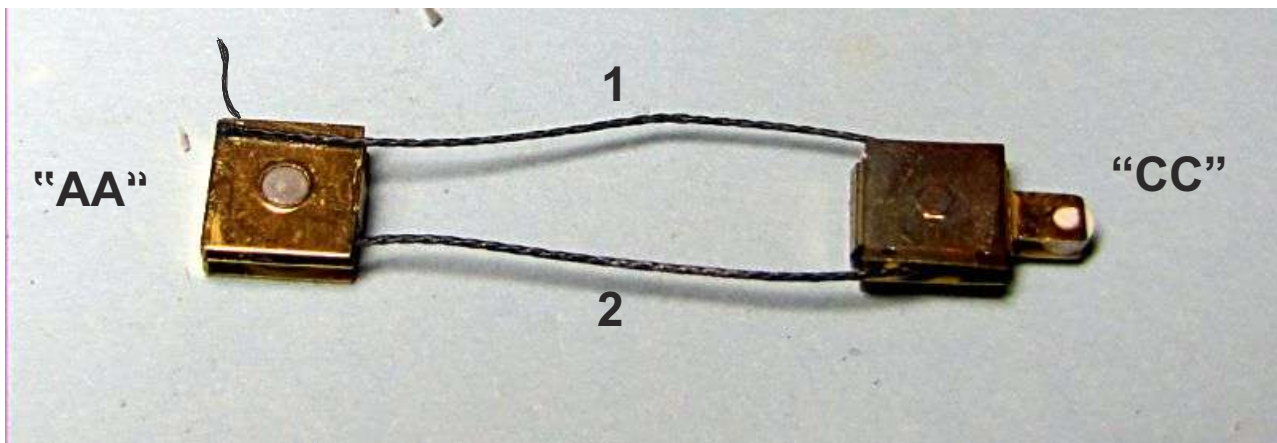


slider bottom pulley
“CC”

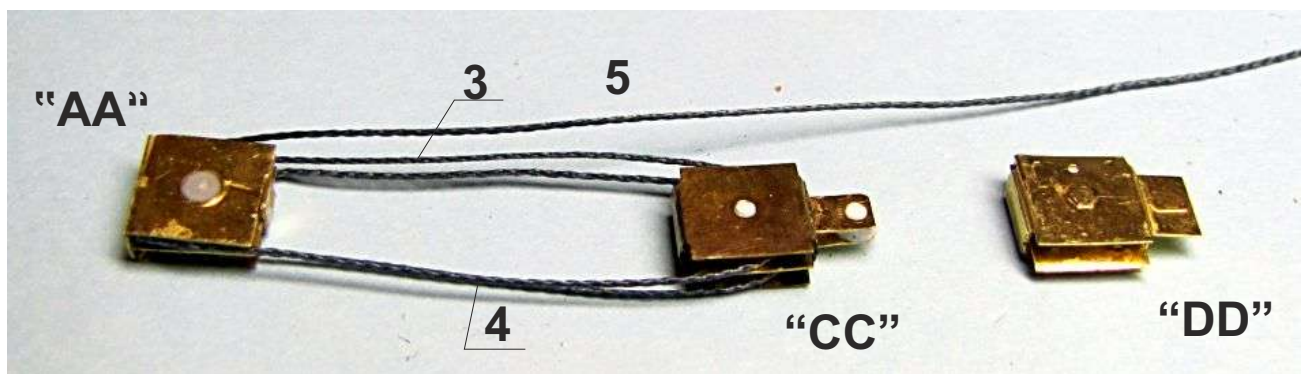


slider top pulley
“DD”

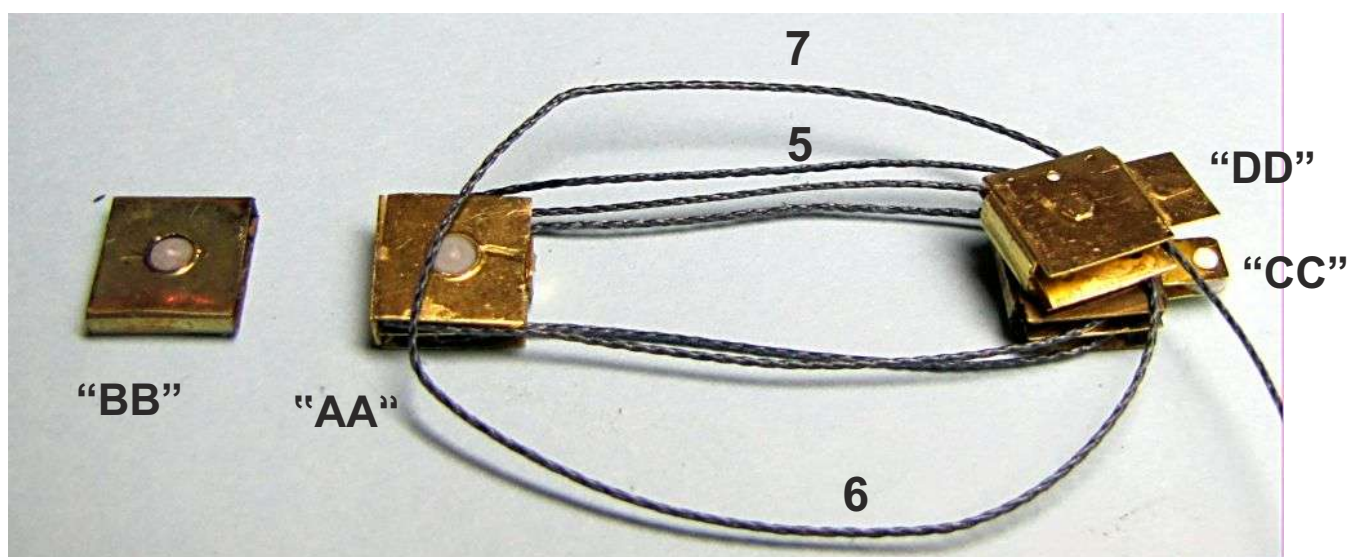




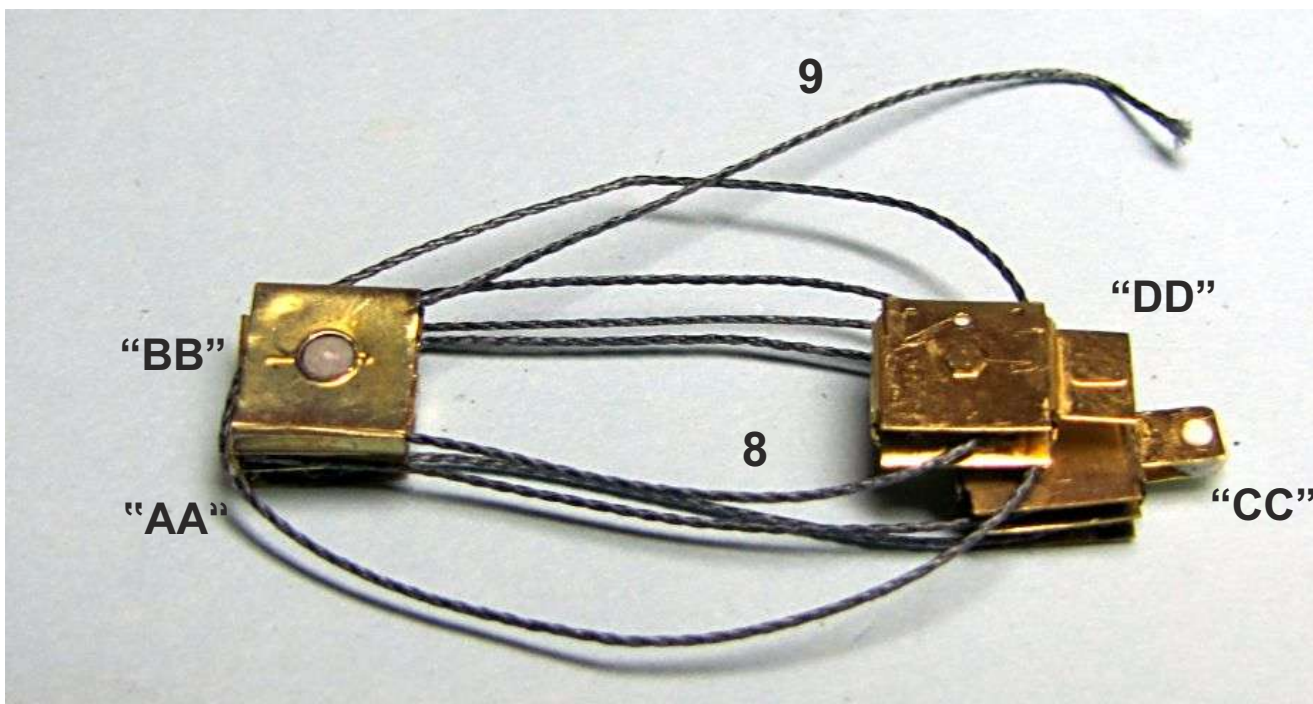
glue rope on "AA" as shown and pull through upper pulley in "CC", go back to "AA" and pull through upper pulley



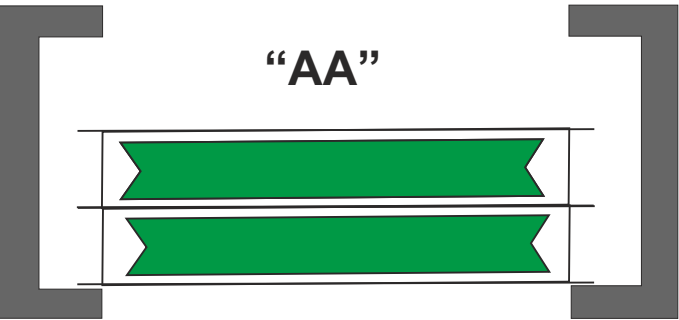
turn both pulleys upside down and continue: pull rope through upper pulley in "CC" and go back to "AA", pull through upper pulley and back to front - prepare pulley "DD"



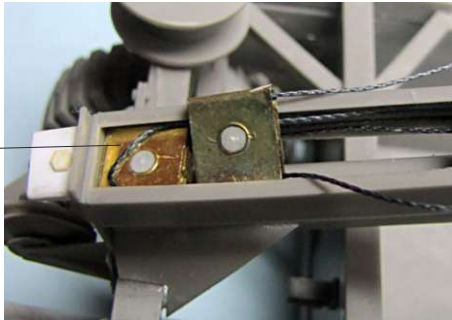
continue: pull rope through bottom pulley "DD" and go back to "AA", secure rope on its top (in reality it goes to pulley at the back (PEg)), return back to "DD" and pull rope through upper pulley. Prepare pulley "BB"



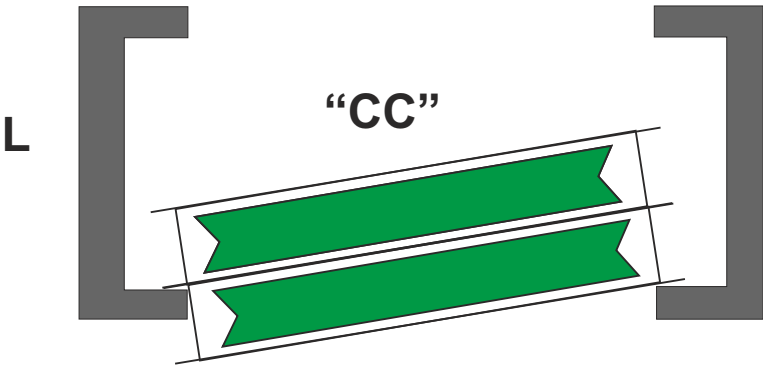
continue: go to pulley “BB” and pull rope through, leaving it end out for further assembly



cross section views

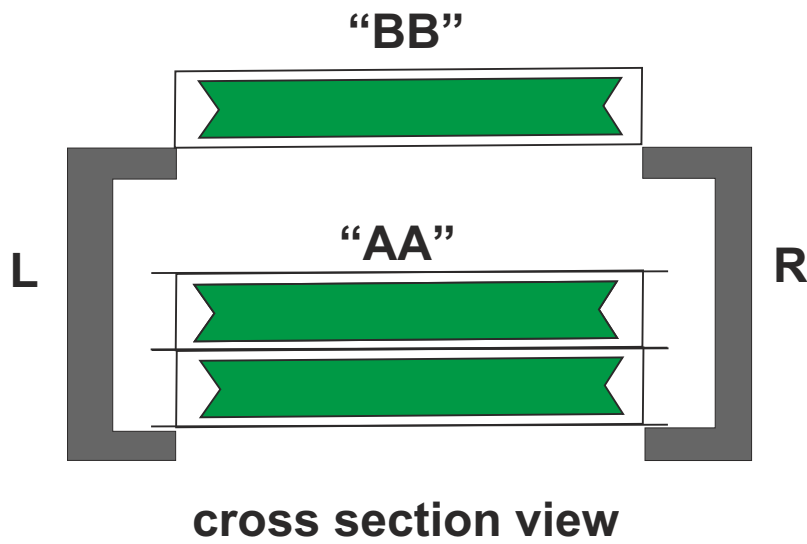


pull carefully sides of 26 out a little, and put between them “AA”, get it very back resting on inner sliders

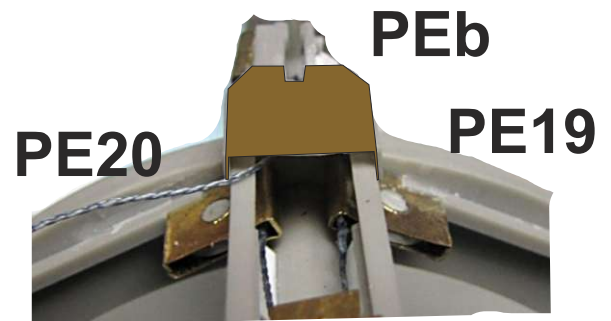
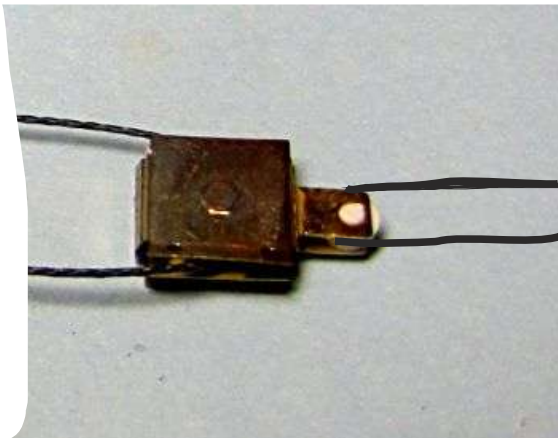
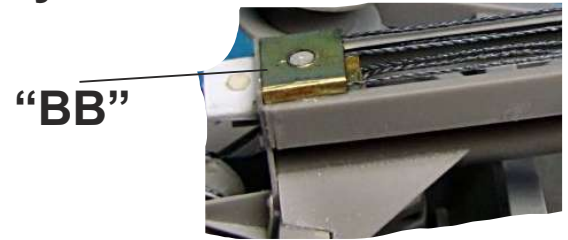


“CC” left side lowered

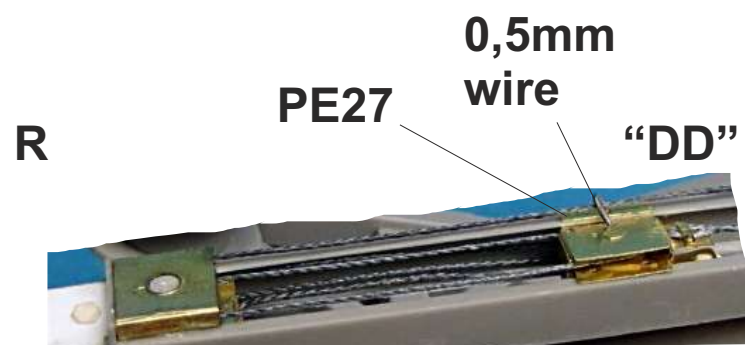
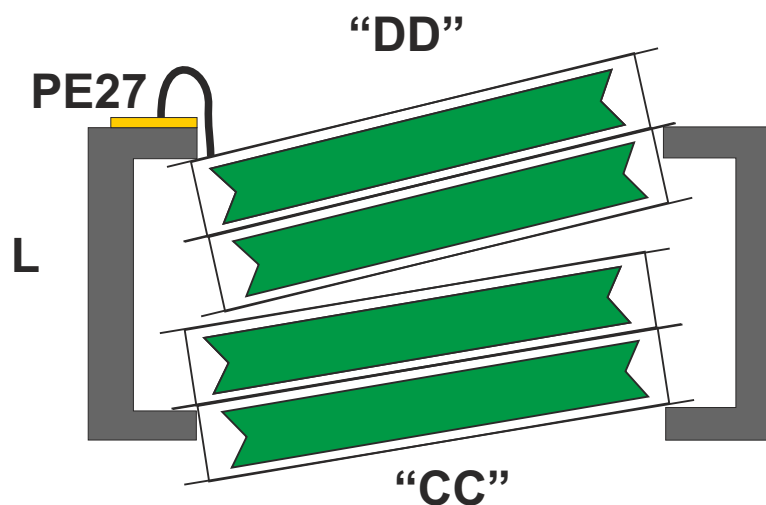
pull carefully sides of 26 out a little, and put between them “CC”, on the left side pulley middle part is resting on inner slider, while on right side bottom part is resting on inner slider



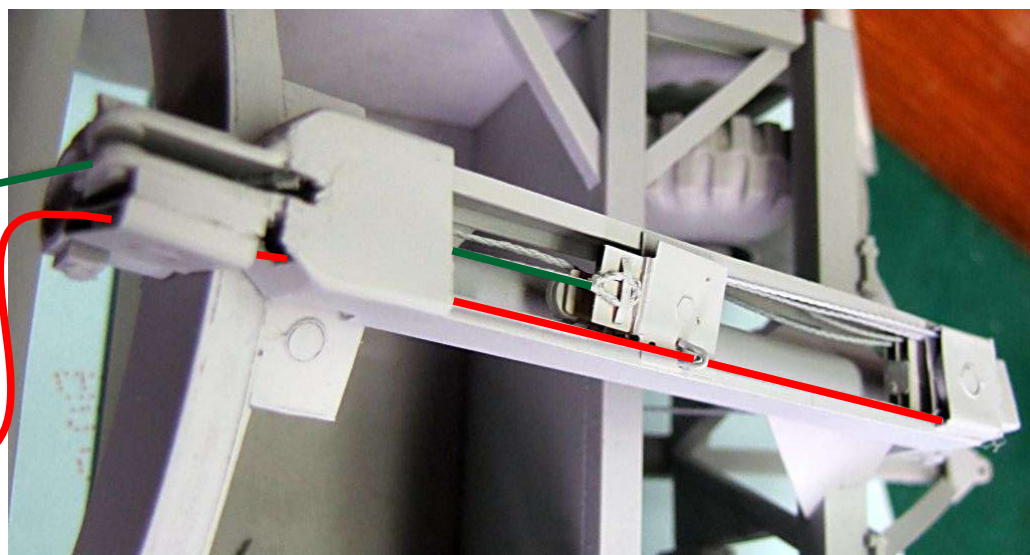
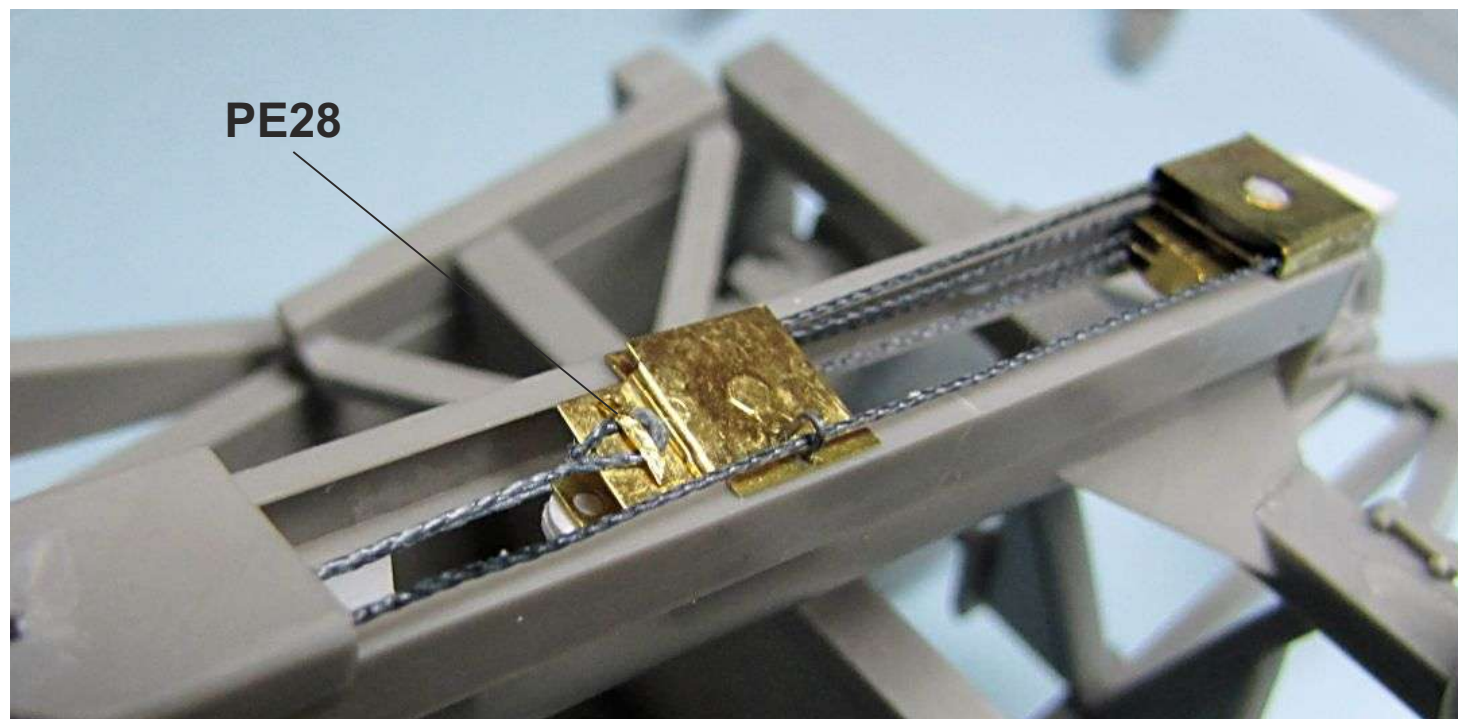
Place pulley “BB” right above pulley “AA” on outer sliders very back



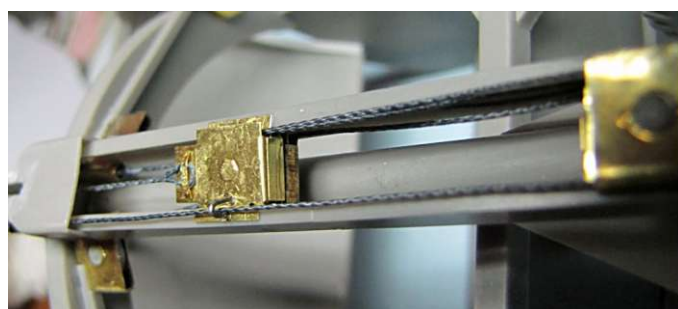
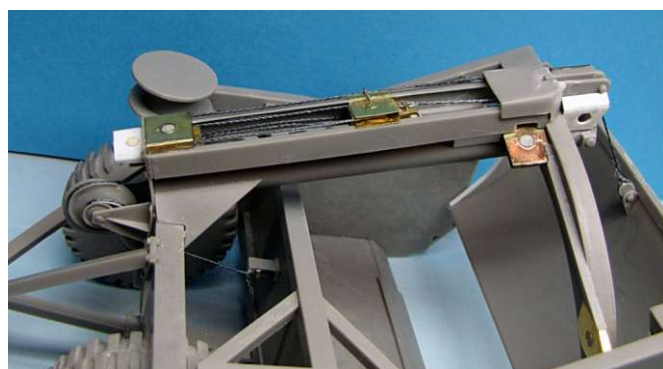
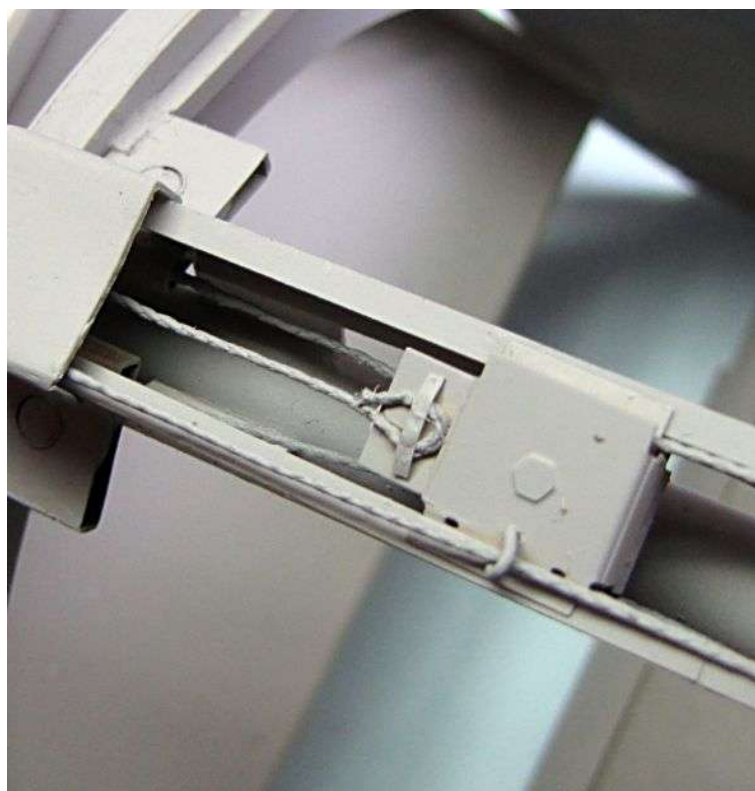
pull rope around little front pulley 37 and connect both ends into pulleys PE20 and PE19. Then add cover PEb



put “DD” pulley on the left side below top slider, while on right side middle part is resting on outer top slider. Place PE27 on left top slider and make wire clamp to secure pulley “DD” hung



Apron lifting rope from earlier assembly connect now to “DD” as shown - marked green. End of rope from “BB” lead through wire eye to front, through opening in PEb and top of pulley PE5 for further assembly

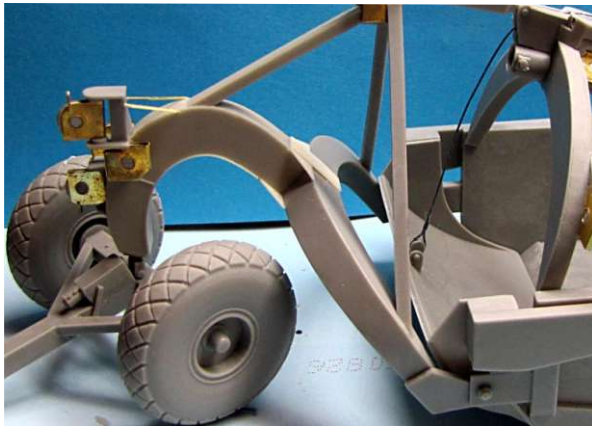




34

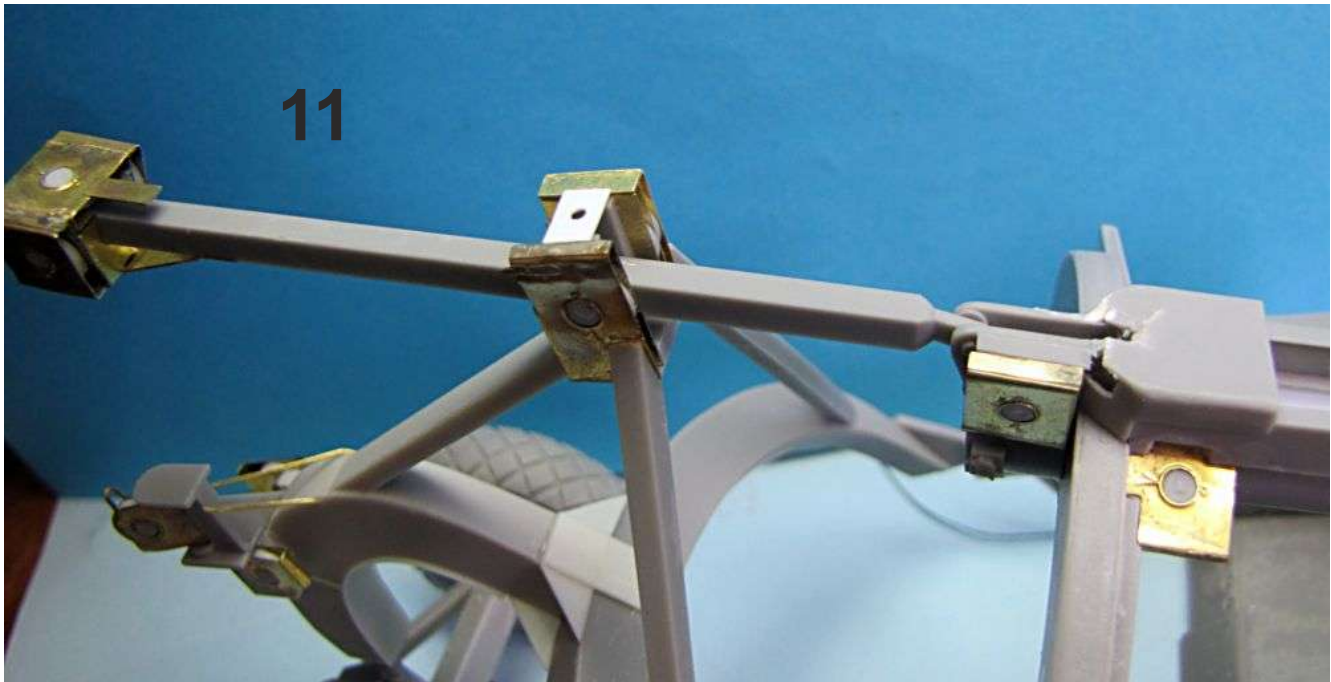


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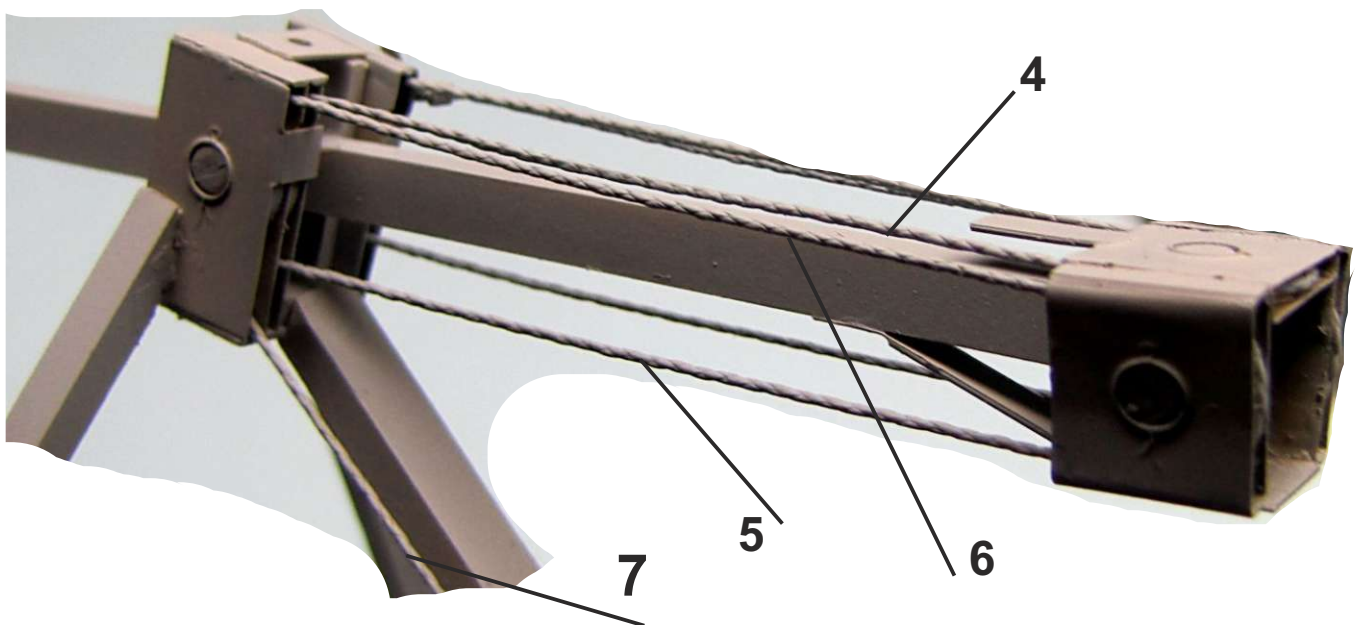
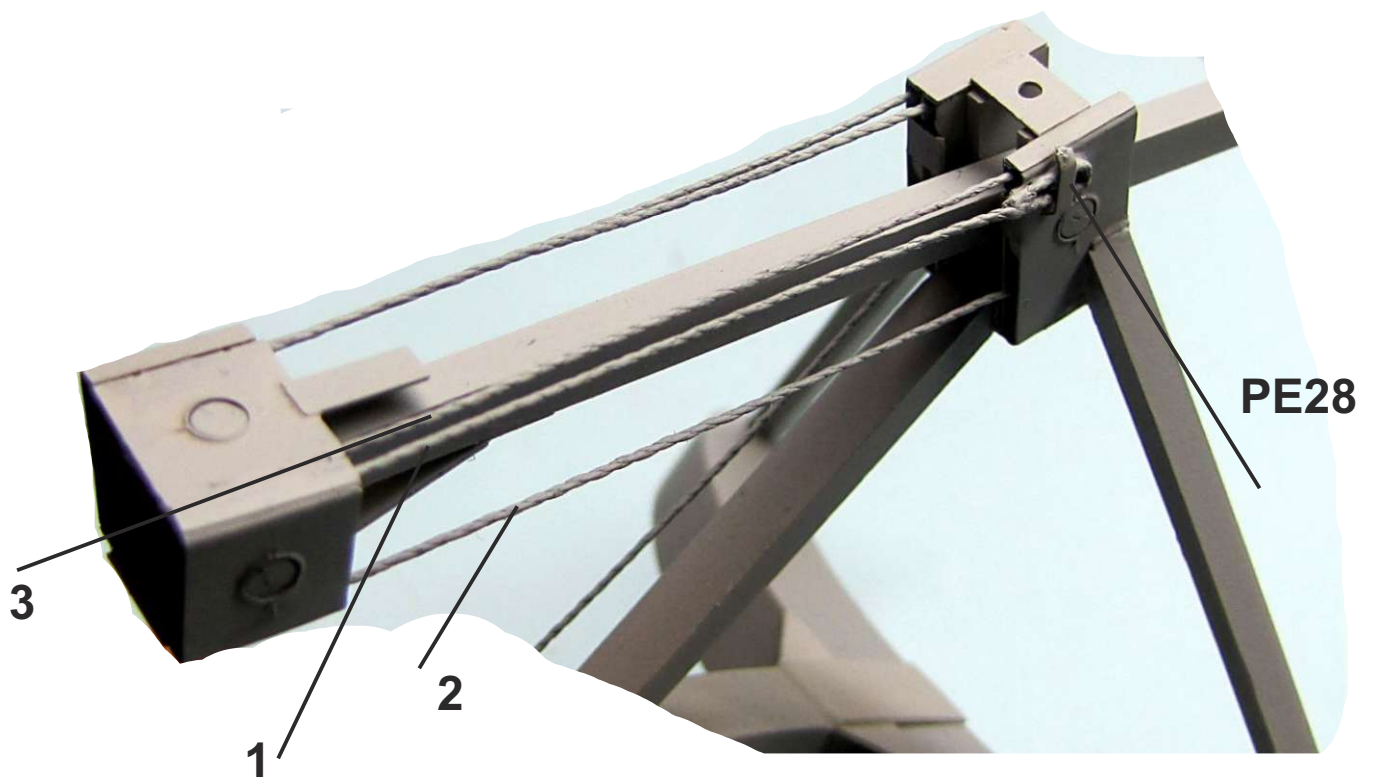


set position of 34 depending if you want front straight or turning to the side.

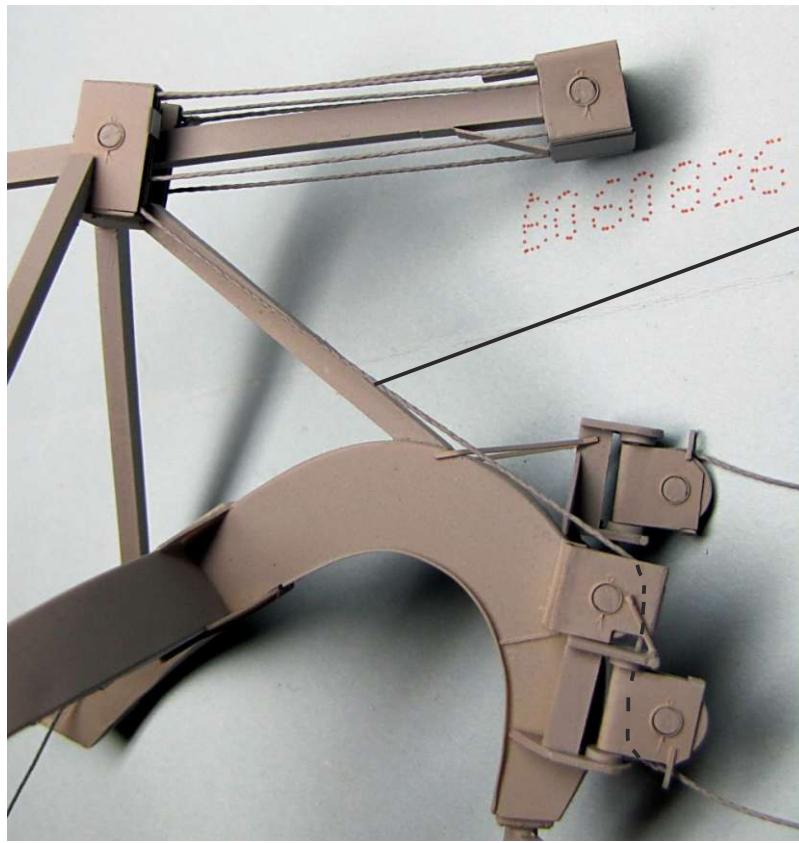
**Assemble front together with rear
Assemble beam 11 with front
pullies to the rest, set position
of whole scraper working or
lifted and secure all with glue**



11



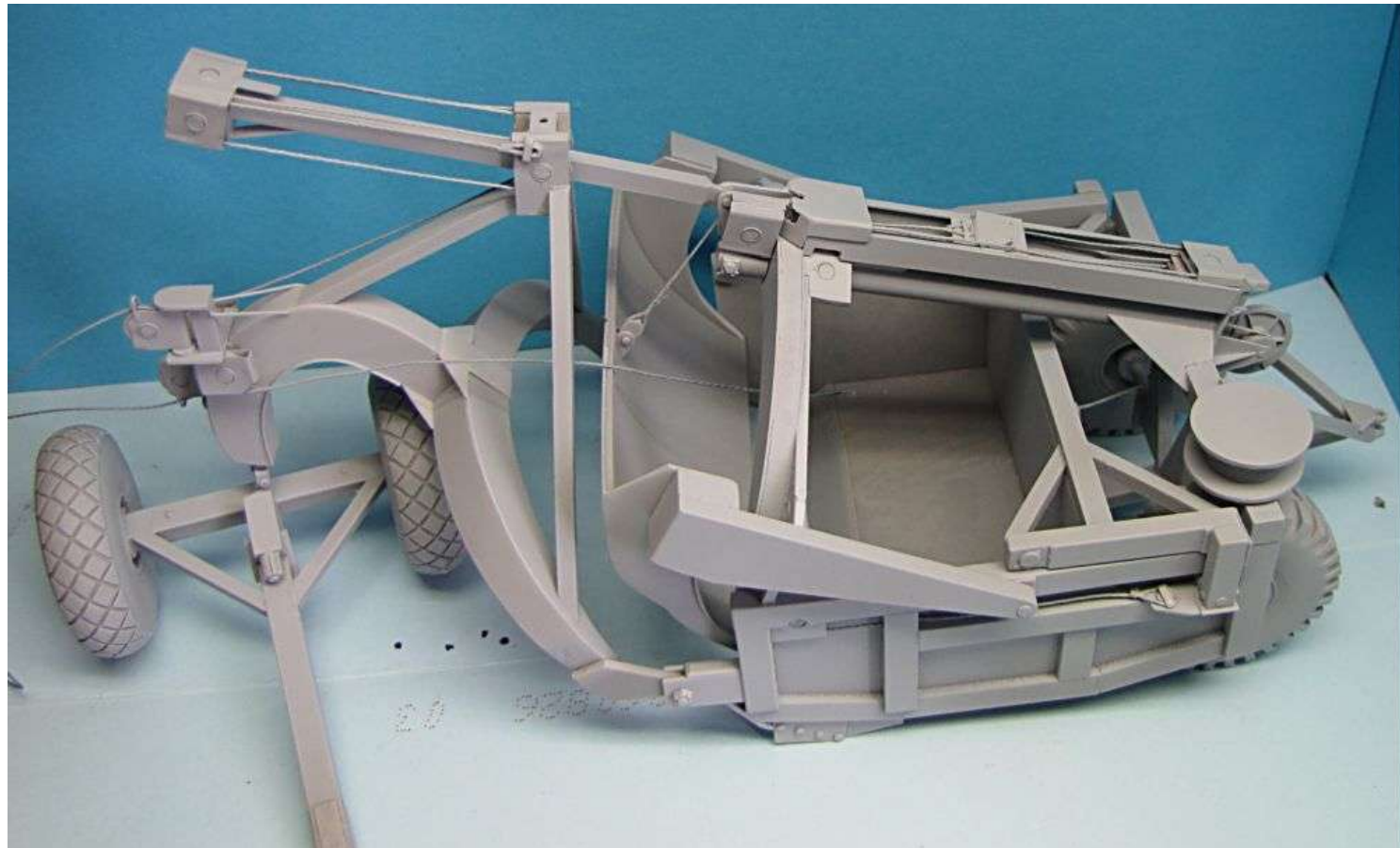
1. secure "eye" end of rope with PE28, pull to top of left front pulley
2. continue around left front pulley back to bottom rear left pulley
3. continue around and to front left top pulley
4. continue around and back to top inner rear right pulley
5. continue around to front right bottom pulley
6. continue around top rear outer right pulley
7. continue around leaving the end of rope for further assembly with driving pulleys



**continue with rope through
right front driving pulleys as
shown**



**pull red marked rope from earlier top sliding pulleys assembly
through front driving pulleys as shown**



Model should be painted in olive drab, most period photos do not show any markings on scrapers used in military service