

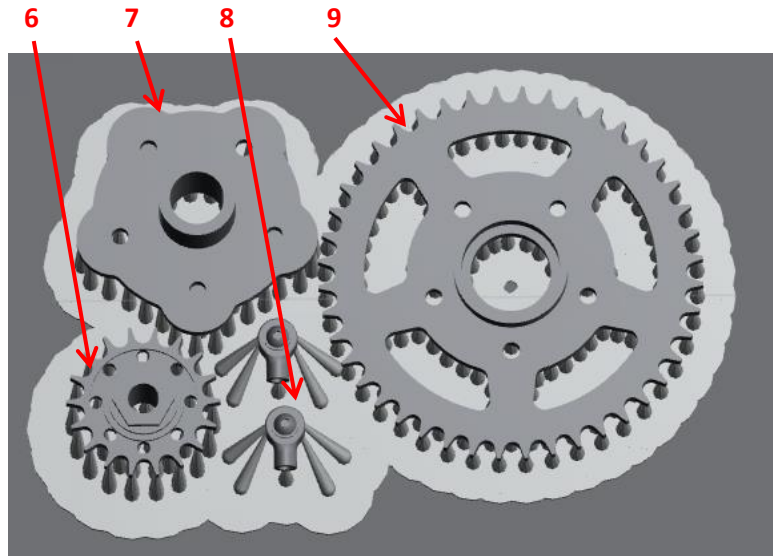
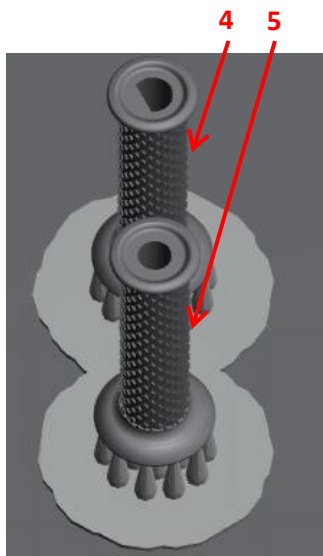
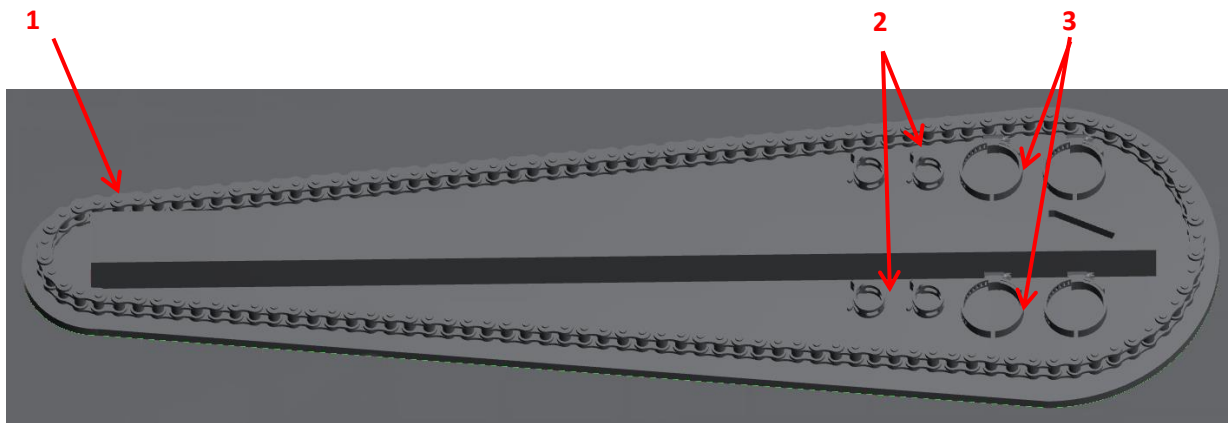


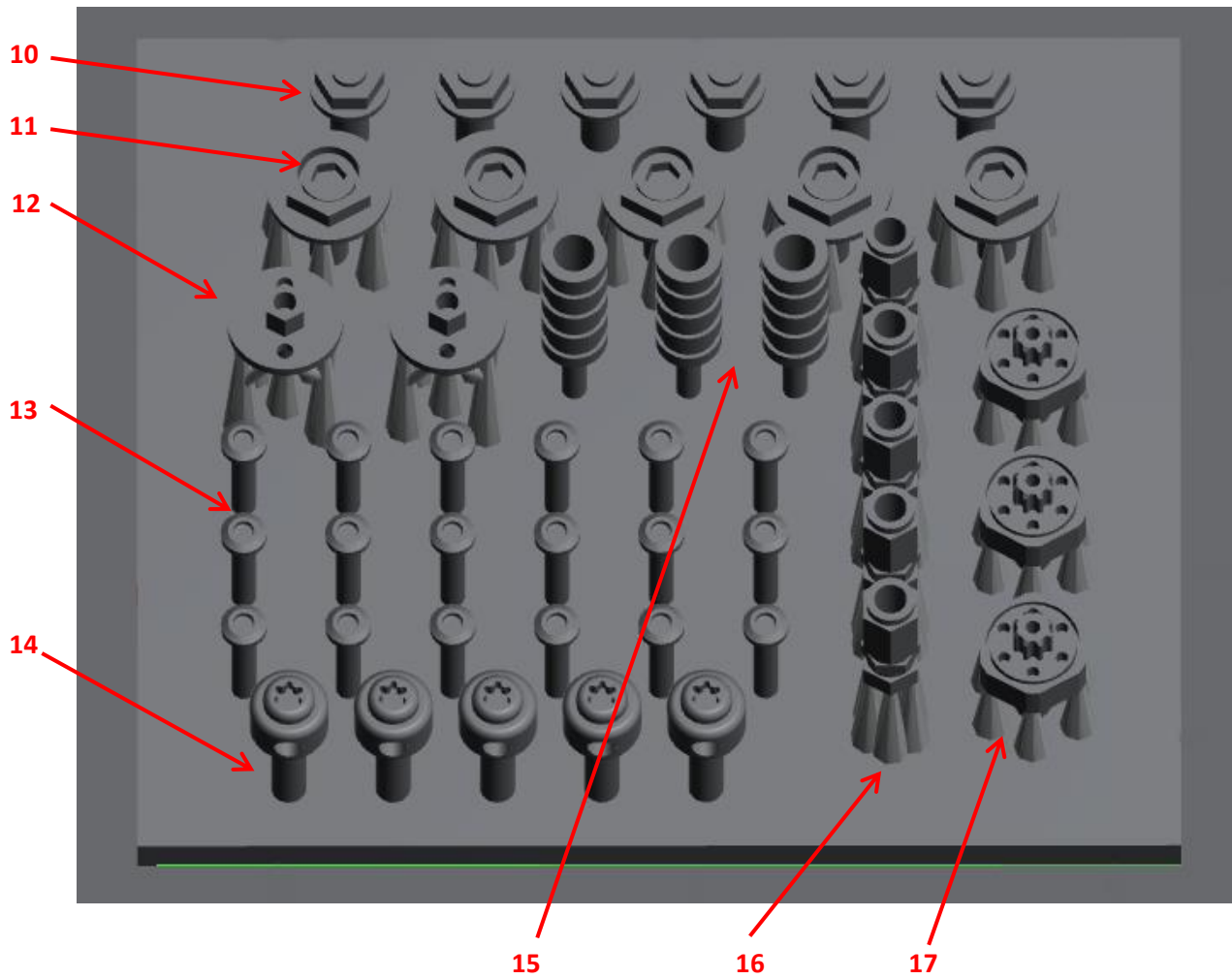
BMW HP4 Race (MENG MT-004) upgrade set

Catalog no.: FSM P007

Installation guide

Parts list: metal tube x1, thin black metal wire, thick silver metal wire





Part no.	Part name	Part no.	Part name
1	Chain x1	10	Rear sprocket screws x
2	Coolant hose clamp - small x4	11	Front fork adjustment screws x5
3	Coolant hose clamp – big x4	12	Rear shock absorber screw x2
4	Throttle handle x1	13	Muffler rivets x18
5	Left side handle x1	14	Brake hose installation screws x5
6	Front sprocket x1	15	Foot pegs
7	Rear sprocket adapter x1	16	Brake hose connectors x5
8	Steering damper handle x2	17	Rear shock absorber adjustment screws x3
9	Rear sprocket x1		

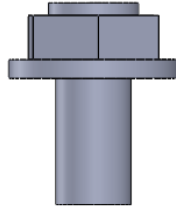
It is suggested to cut off all parts except muffler rivets which can be painted when attached to the print base.

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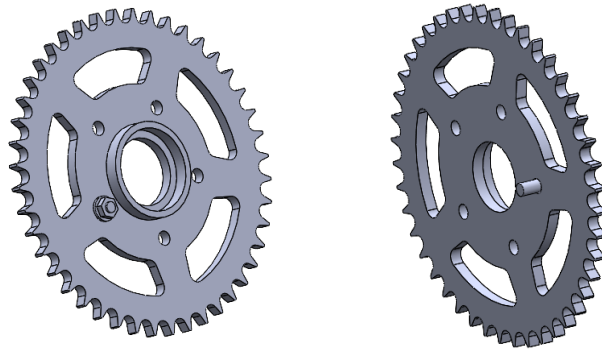
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Chain

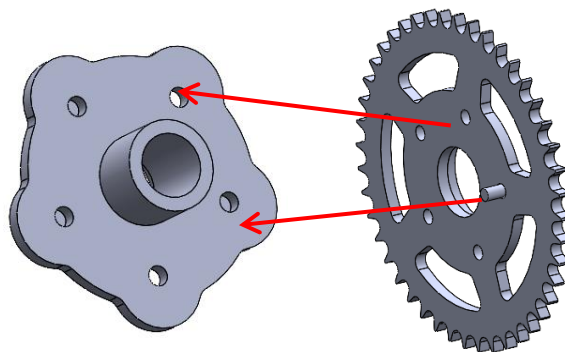
1. Remove all supports holding the chain (1). Use sharp cutters like Tamiya 74035. Do not break off the chain. See the video on supports removal at www.falconscalemodels.com in the manual section.
2. Remove all the supports holding rear sprocket screws (10), sprockets (6, 9) and adapter (7) having in mind rear sprocket screws should have an installation pins. Properly cut off parts:



3. After painting install five rear sprocket screws in the rear sprocket using CA glue. If needed correct holes diameters with 1mm drill. DO NOT cut off screw installation pin.

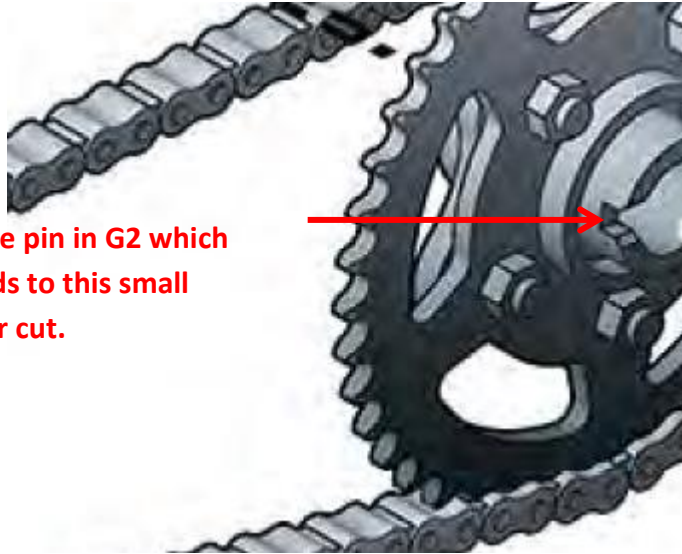


4. In the rear sprocket adapter (7) correct holes diameters with 1mm drill. Apply small amount of CA glue inside the screw holes in the adapter and joint it with installation pins of screws joined with the rear sprocket.

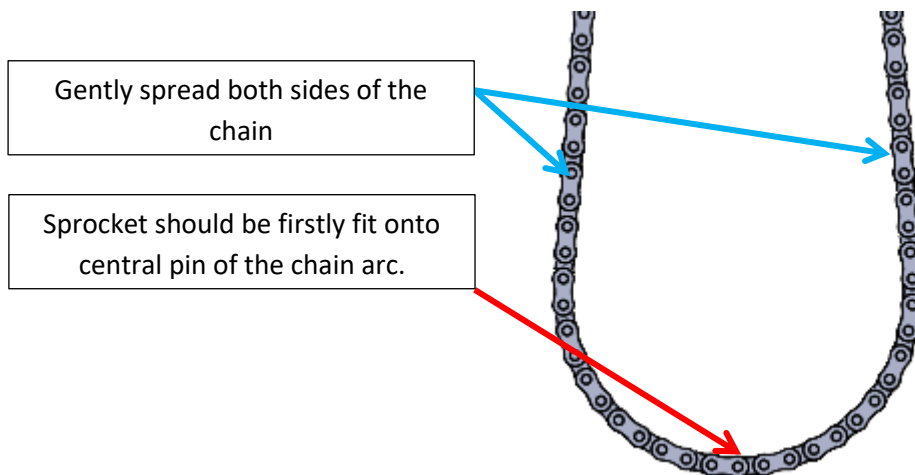


5. Install the sprockets inside the chain.
See the video on sprocket installation at www.falconscalemodels.com in the manual section. Gently widen the chain and insert the sprocket onto the central pints of the chain arc. In the next step, lightly raise the chain and pull it in the direction of the opposite sprocket to place all the pins on the sprocket. If needed secure the sprockets position using CA glue or Micro Kristal Klear.

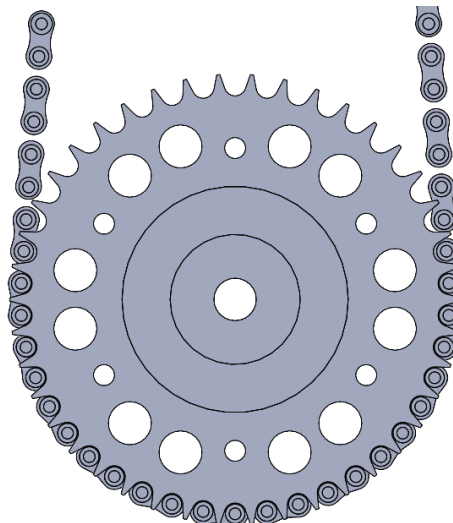
6. Split the chain using base kit part as a reference. Cut links one by one. Do not cut all links at once as you can damage the chain.
7. Remove rectangular small pin from the inner section of the left hand side of the swingarm (G2 part) which positions the rear sprocket in the chain from the base kit.



Remove the pin in G2 which corresponds to this small rectangular cut.



Proper position of the sprocket inside the chain.

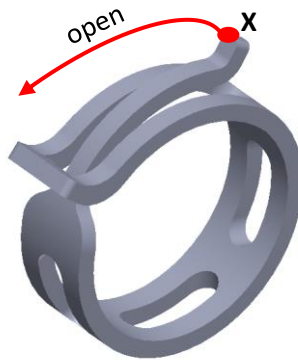


Coolant hose clamps

Kit contains two types of clamps.

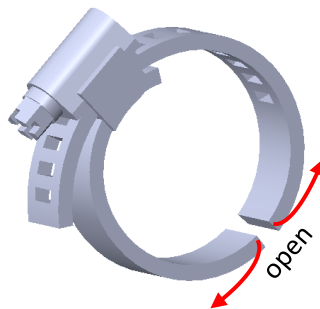
Small ones (2) should be used with A31 and A34 parts from the base kit while big ones (3) are designed for A27 and A36. Both types can be slide over the free end of the hose to the desired position and secured with the CA glue or Micro Kristal Clear. In case the hose has any kind of obstacle on its end (radiator side panel or connector) which blocks free access to the hose, clamps can be installed in the following way:

Clamp no.2



After removing all supports one grab the end of the clamp marked as X and gently pull it in order to adjust clamp diameter or to make it fully open. In case the one has fully withdrawn end X from the clamp, it can inserted inside the clamp again to recreate the original shape.

Clamp no. 3



Clamp B has the cut on the opposite side the adjusting unit. Gently spread the clamp and push it over the hose.

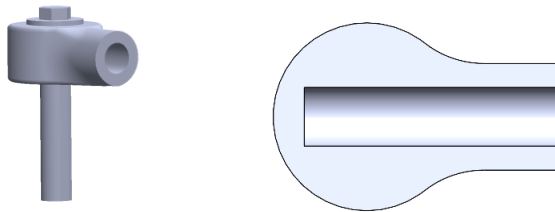
Handle bars

Upgrade part (4) can be directly used to replace L2 part from the base kit while part (5) replaces L1 element.

Steering damper

Using J1 part from the base kit shortens the metal tube to the required length. Using metal fine or sand paper smooth both ends of the tube.

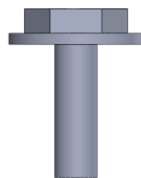
1. Remove the steering damper connector (8) from the supports. Steering damper connector has an installation pin, so do not cut it off when removing supports. It is suggested to place the cutting line directly of the base plate surface.



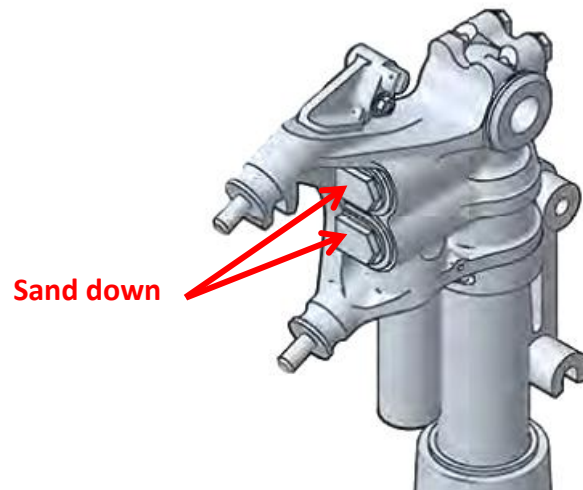
2. Check if the metal rod enters the steering damper connector hole. If not sand down gently metal rod or use 0.5mm followed by 0.6mm and finally 0.7mm drill to correct the hole. Do it careful not to break the side walls. Hole depth of 1-1.5mm is enough.
3. Using CA glue connect metal tube with steering damper connector.
4. Using 1.1mm drill correct the hole for a screw used in step 29 of the base manual in A9 part.
5. In step 28 of the base kit manual - insert joined metal rod and steering damper connector into B7 part. Connect steering damper connector with A9 part and then using screw from the base kit join B7 with the frame.

Front fork adjustment screws

1. Remove supports from the front fork adjustment screws. Do not cut off part installation pin.



2. In parts B9 and B10 sand down raised areas

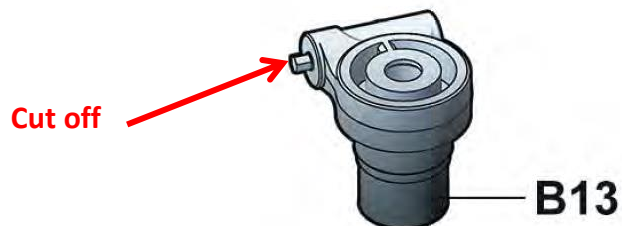


3. Using 1mm drill creates holes for installation pins of front fork adjustment screws.
4. Use photo attached below for painting reference.



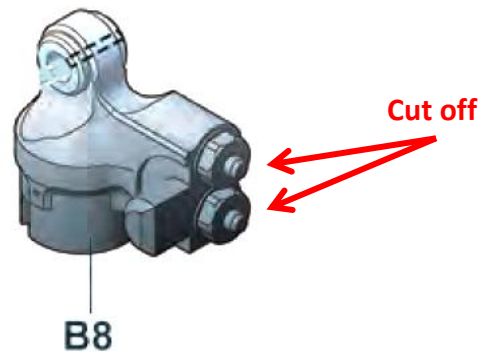
Rear shock absorber

1. Use rear shock absorber screw (12) to modify part B13



2. Cut off the pin from B13, smooth the surface and drill 0.7mm installation hole for part (12).
3. Use rear shock absorber adjustment screw (17) to modify part B8.

- Cut off the hex shapes from B13, smooth the surface and drill 0.9mm installation holes for parts (17).

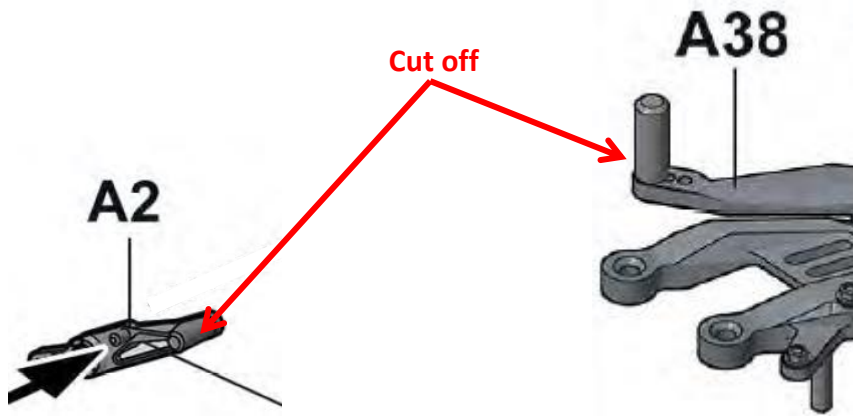


- Use photo attached below for painting reference.



Brake and gear lever pegs

- Cut off brake and gear lever pegs. Leave the installation pin.
- Cut off marked fragments from A38 and A2.
- Smooth the surface after cut and drill 0.6mm hole for installation pins.
- It is suggested to install both pegs in the last step of the construction of the model as while placing a bike on the side during construction may cause pegs to break off the installation pin.**
- In case foot peg will break off the installation pin using 0.6mm drill deepen the hole in the foot peg to make it through and use 0.5mm metal rod (not included in the kit) to install the peg once again.**



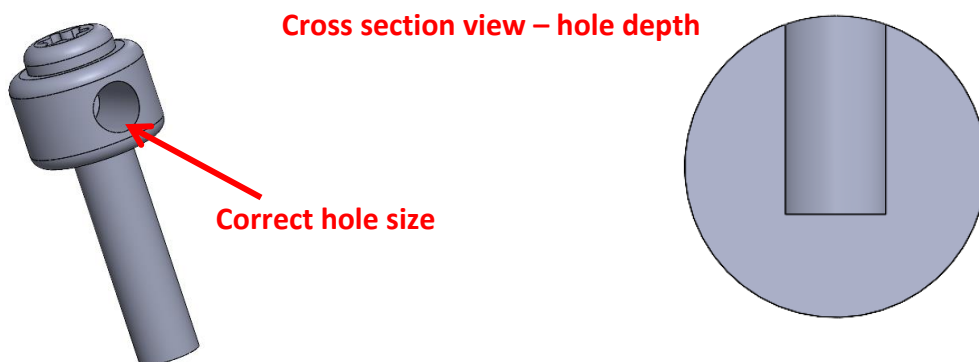
Muffler rivets

1. After placing all decals (both carbon fiber as well as ones imitating clamps) on the muffler and securing them with clear coat, using 0.6mm drill create holes for rivets. Use small black dots on decals B43 as reference points for holes centers.

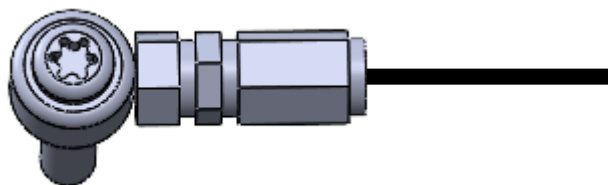
Brake hoses and calipers

Rear brake

1. Using 0.4 followed by 0.5mm drill correct the hole in the brake hose installation screw (14).



2. Cut about 8mm long piece of a silver metal wire and using CA glue connect the wire with the brake hose installation screw and brake hose connector (16)

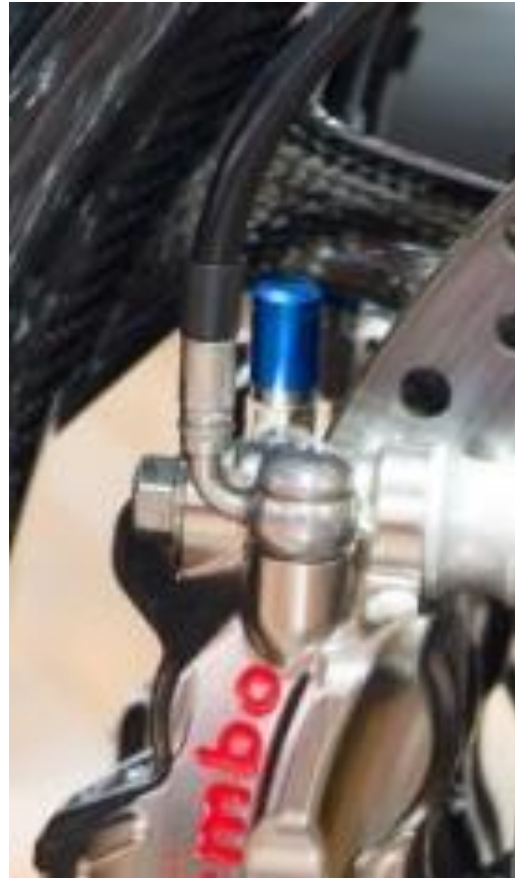
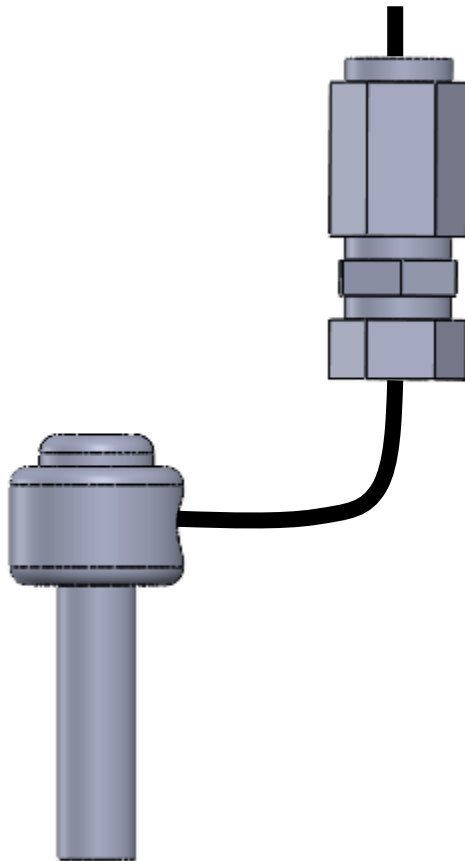


3. With CA glue secure the vinyl tube from the base kit on the metal wire.

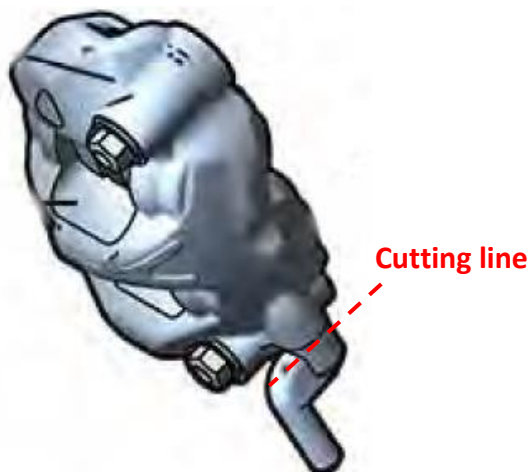
4. Drill 0.9mm hole in F3 part from the base kit and replace the B17 with created set.

Front brakes

1. Using 0.4 followed by 0.5mm drill correct the hole in the brake hose installation screw (14). See drawings in point 1 of rear brake upgrade for reference.
2. Cut about 16mm long piece of a silver metal wire and bend it into L shape. Using CA glue connects the wire with the brake hose installation screw and brake hose connector (16). Use photo below as reference.



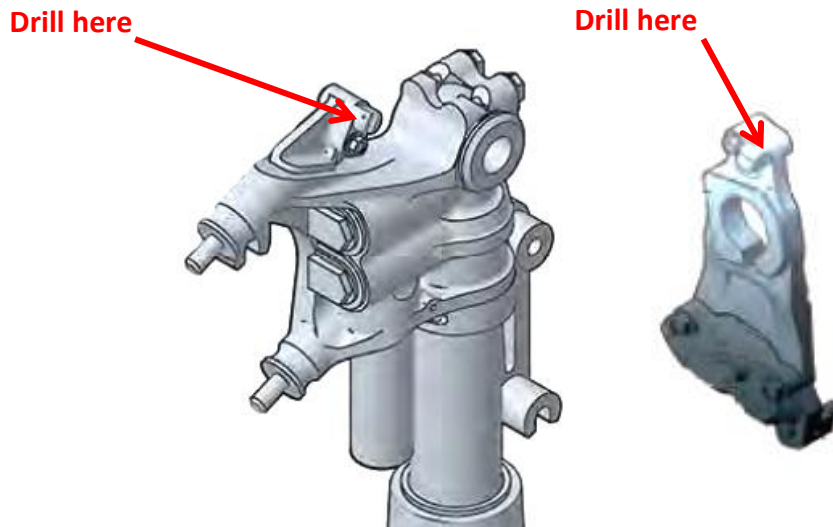
3. With CA glue secure the vinyl tube from the base kit on the metal wire.
4. Cut off marked section from J1 and J2 parts.



5. Smooth down the surface after cut and drill 0.9mm hole for the installation pin of the brake hose installation screw.
6. With the CA glue or Micro Kristal Clear secure the upgraded brake hose connector.

ABS wiring

1. Using 0.4mm – 0.5mm drill create holes in parts B10 and F3.



2. With thin black wire replicate ABS wiring. Use photos below as reference. Free end of the front wire can be hidden under the main frame length while rear one can be hidden on the center side of the swing arm in the mounting holes or inside the engine space under the main frame.

