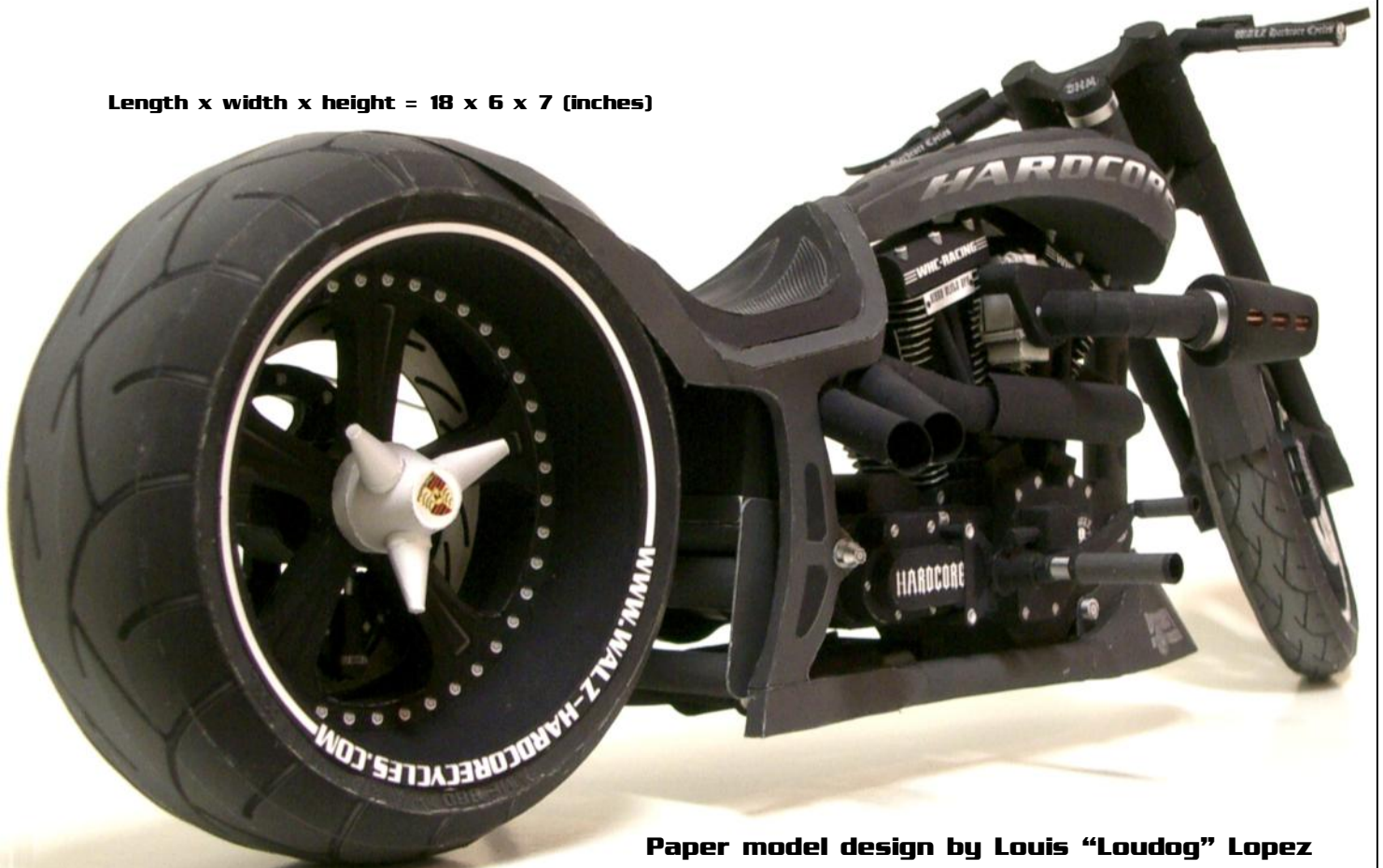


# ***The Mille Miglia***

## ***Paper Model***

Length x width x height = 18 x 6 x 7 (inches)



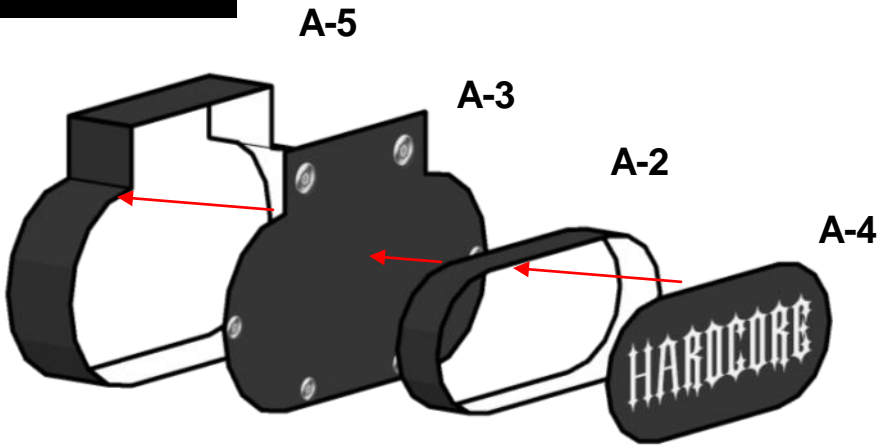
Paper model design by Louis "Loudog" Lopez



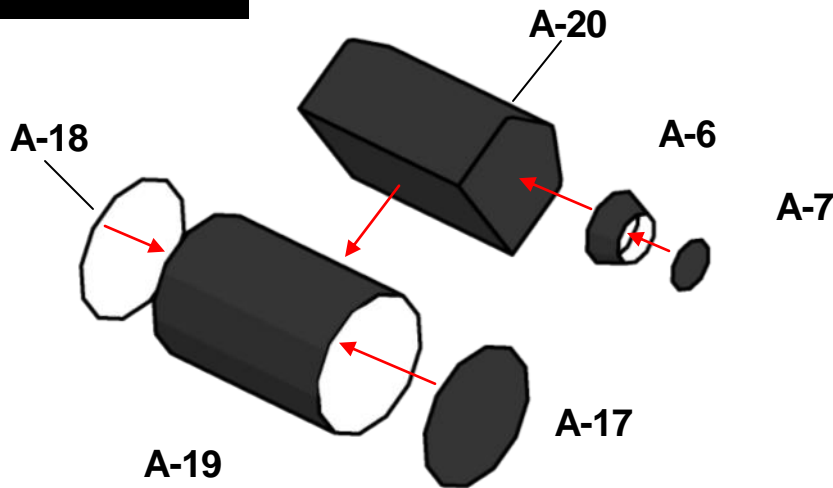
Based on a real custom bike designed and built for the Discovery Channel's *Biker Build Off* by Marcus Walz of *Walz Hardcore Cycles*. It was named the "Mille Miglia" after the 1000 Mile roadtrip Walz took on his way to Laughlin, Nevada where his bike was judged and voted the winner.

# Transmission Assembly

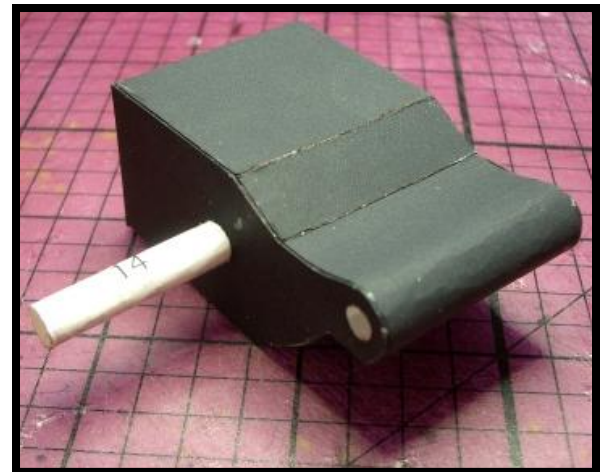
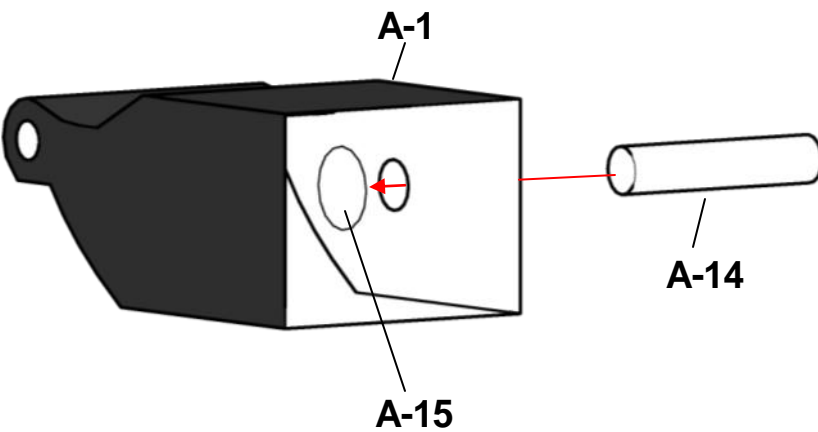
## Trans-1



## Trans-2



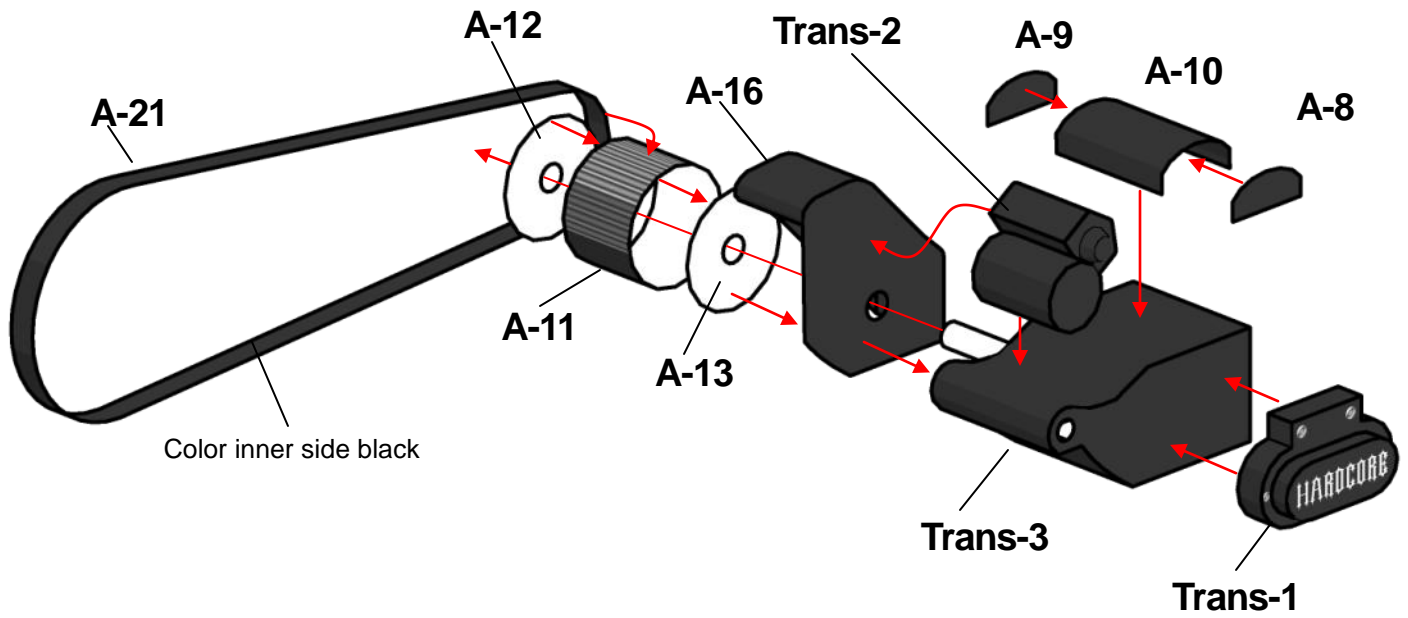
## Trans-3





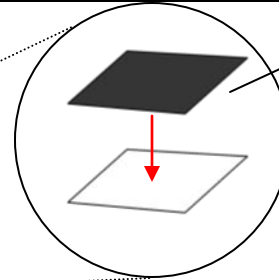
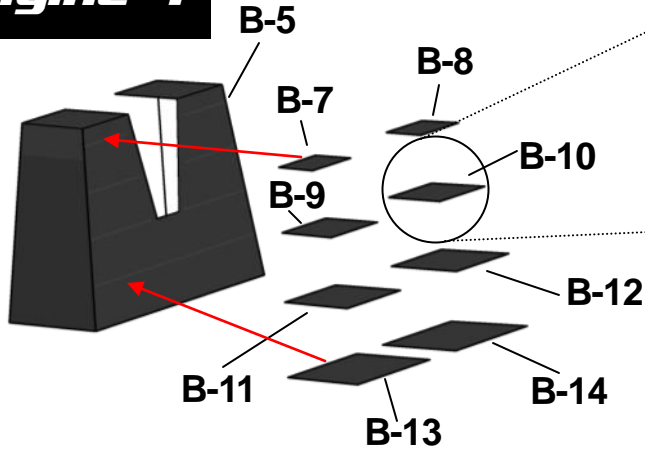
# Transmission Assembly

## Trans-4



# Engine Assembly

## Engine-1



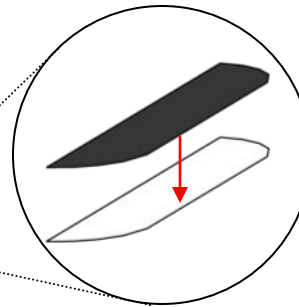
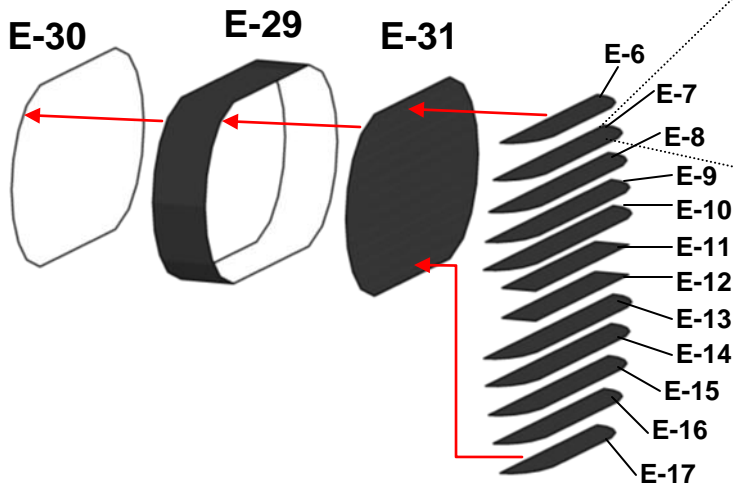
Tip: Cut the part in half along the fold line and then glue together.

Tip: Paint fin edges silver.

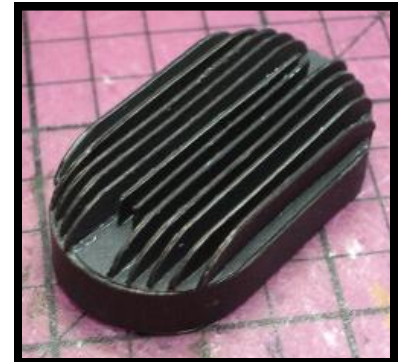


\* Right half of engine (repeat step for left side)

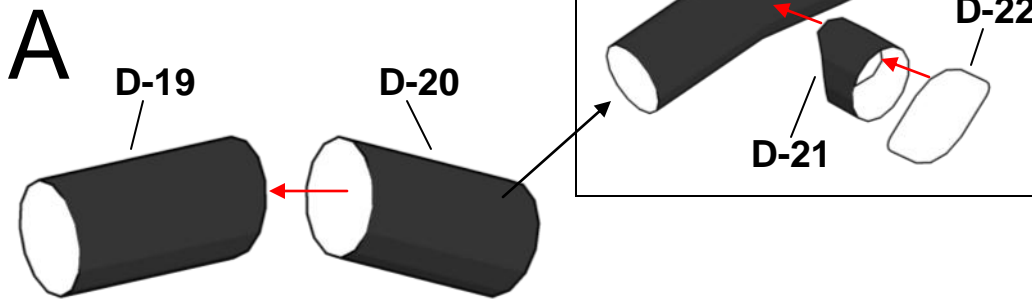
## Engine-2



Tip: Cut the part in half along the fold line and then glue together.



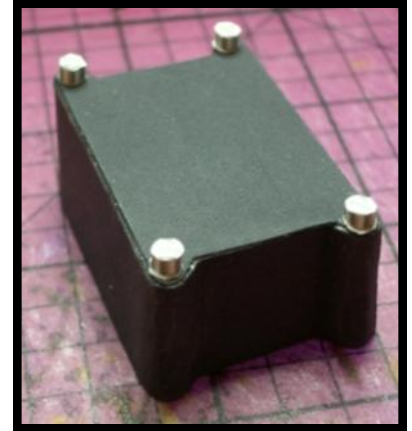
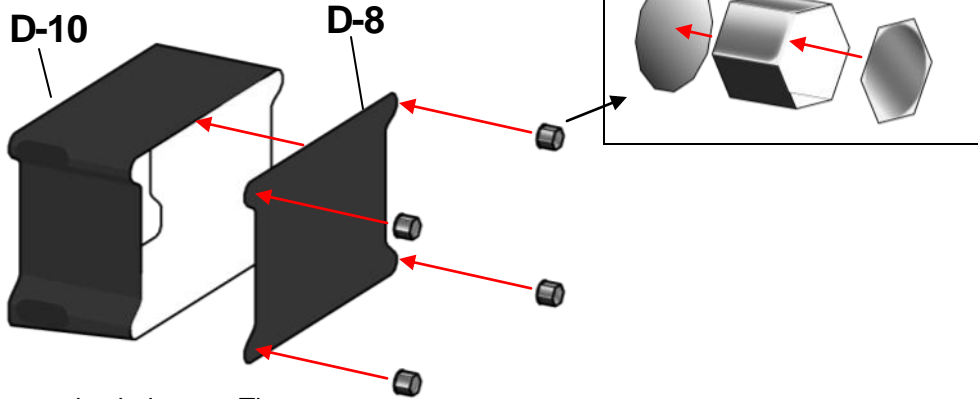
## Engine-3





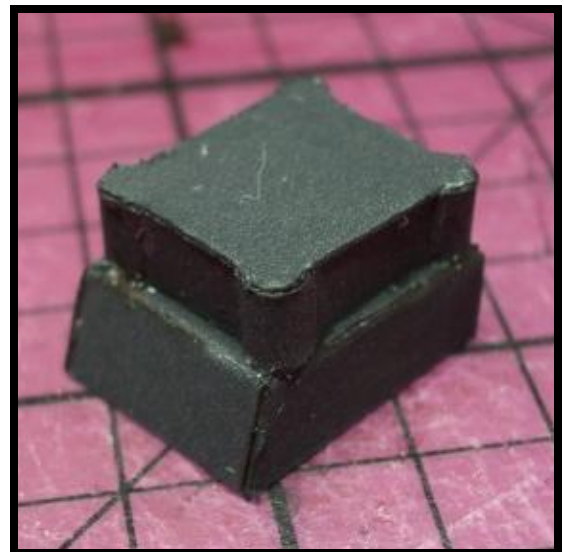
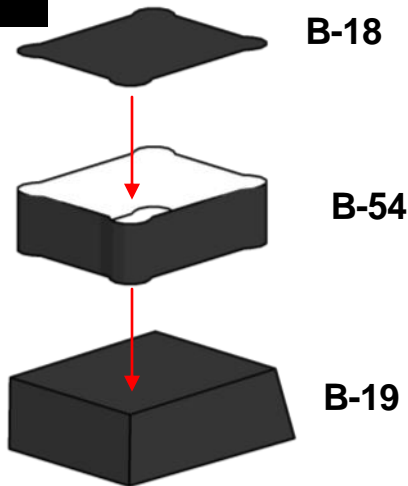
# Engine Assembly

## Engine-4



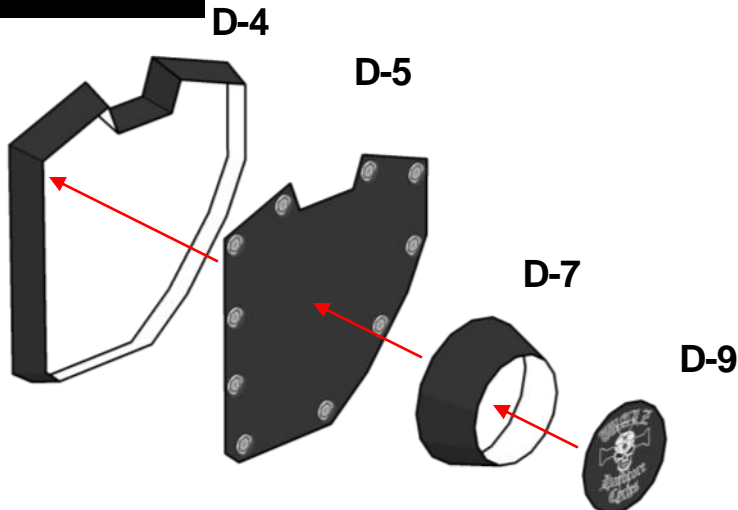
Do not glue bolts yet. They should be glued after engine is attached to transmission

## Engine-5



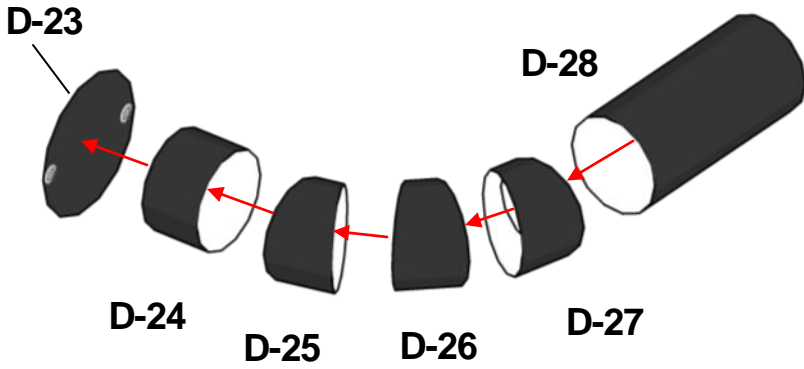
\* Right half of engine (repeat step for left side)

## Engine-6

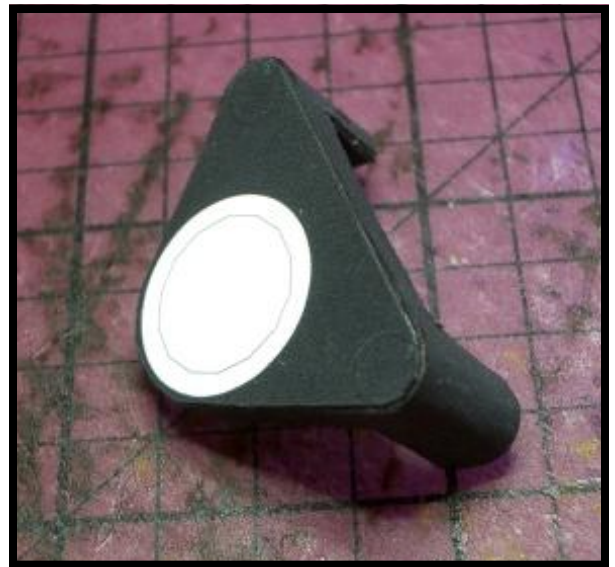
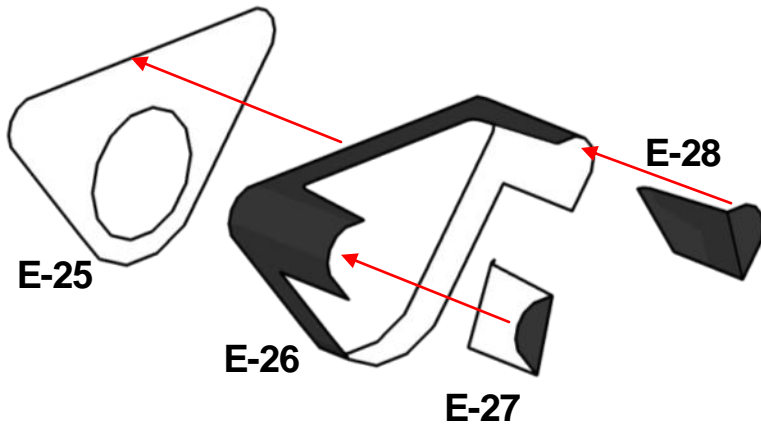


# Engine Assembly

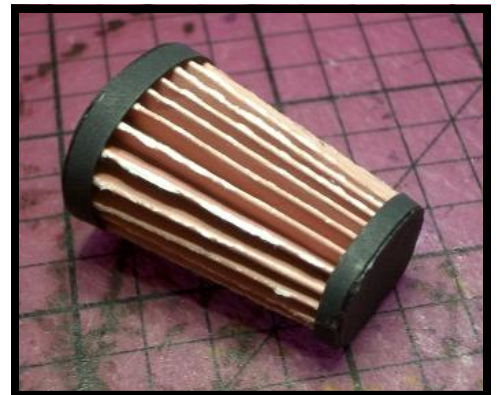
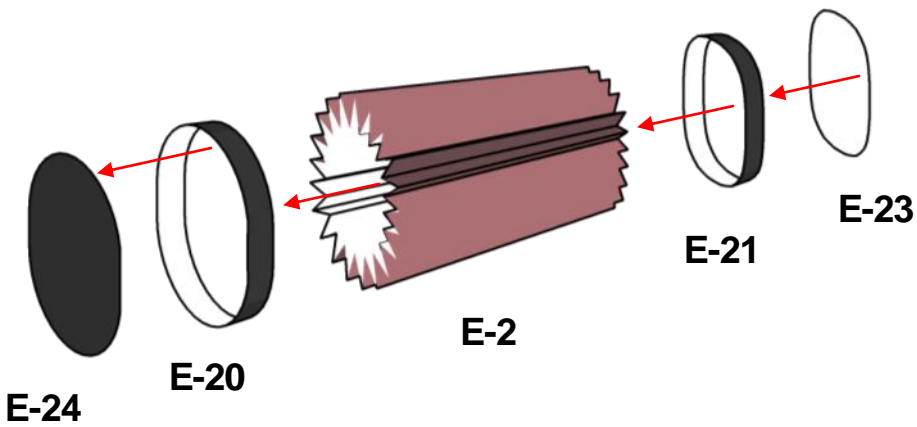
## Engine-7



## Engine-8

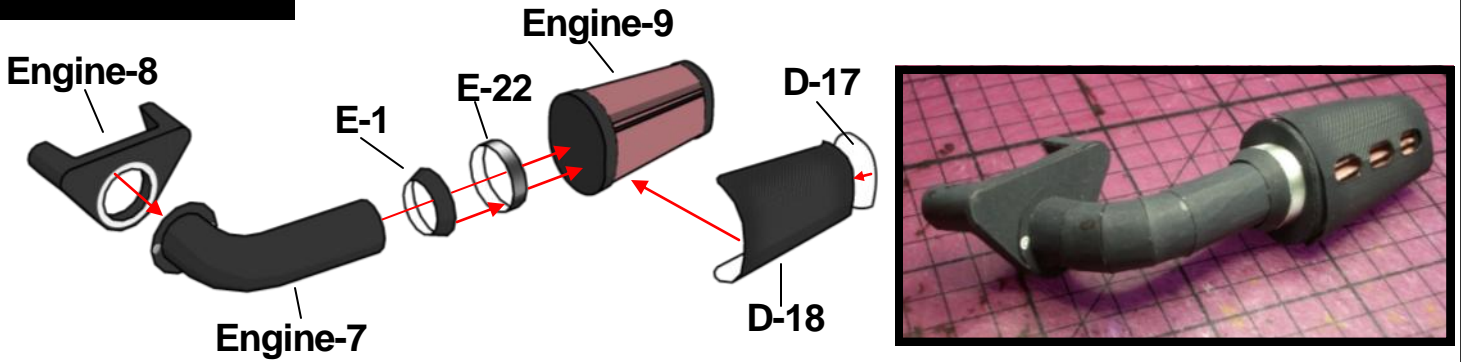


## Engine-9

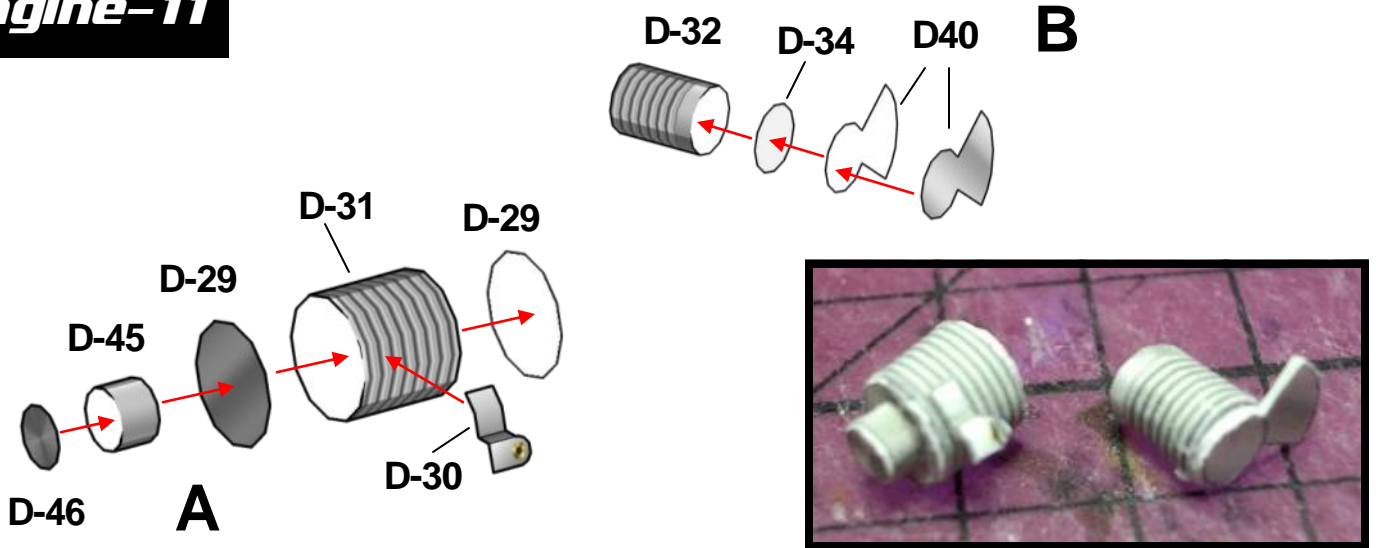


# Engine Assembly

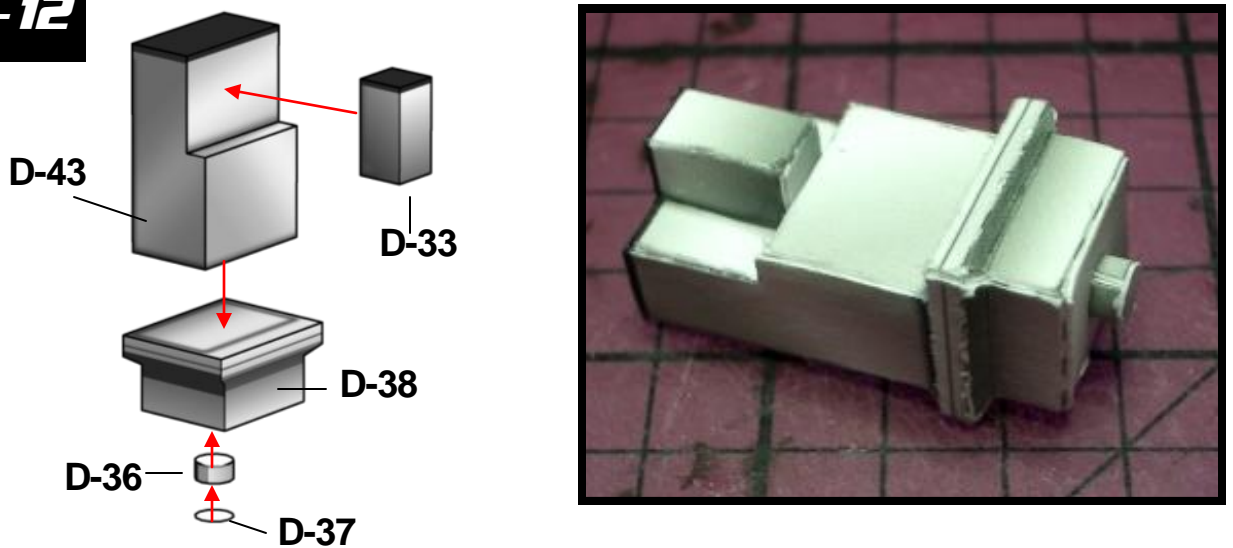
## Engine-10



## Engine-11



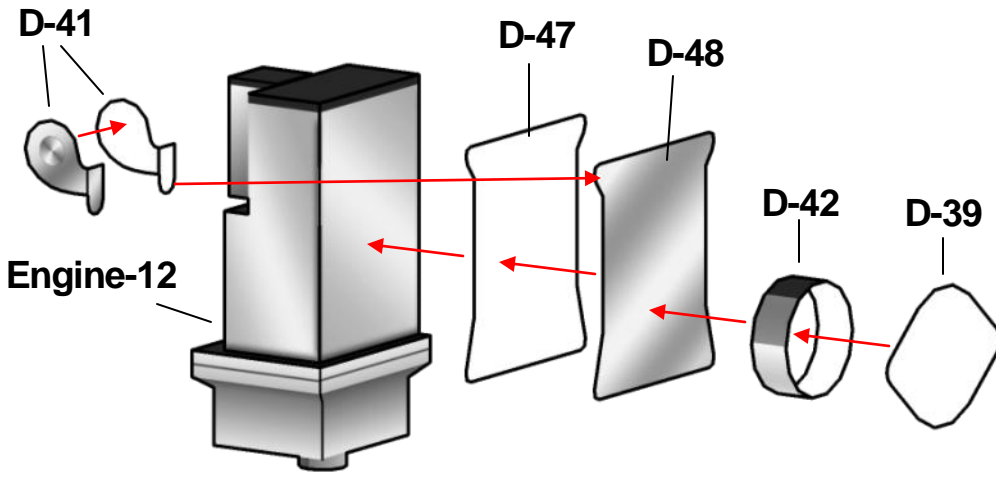
## Engine-12



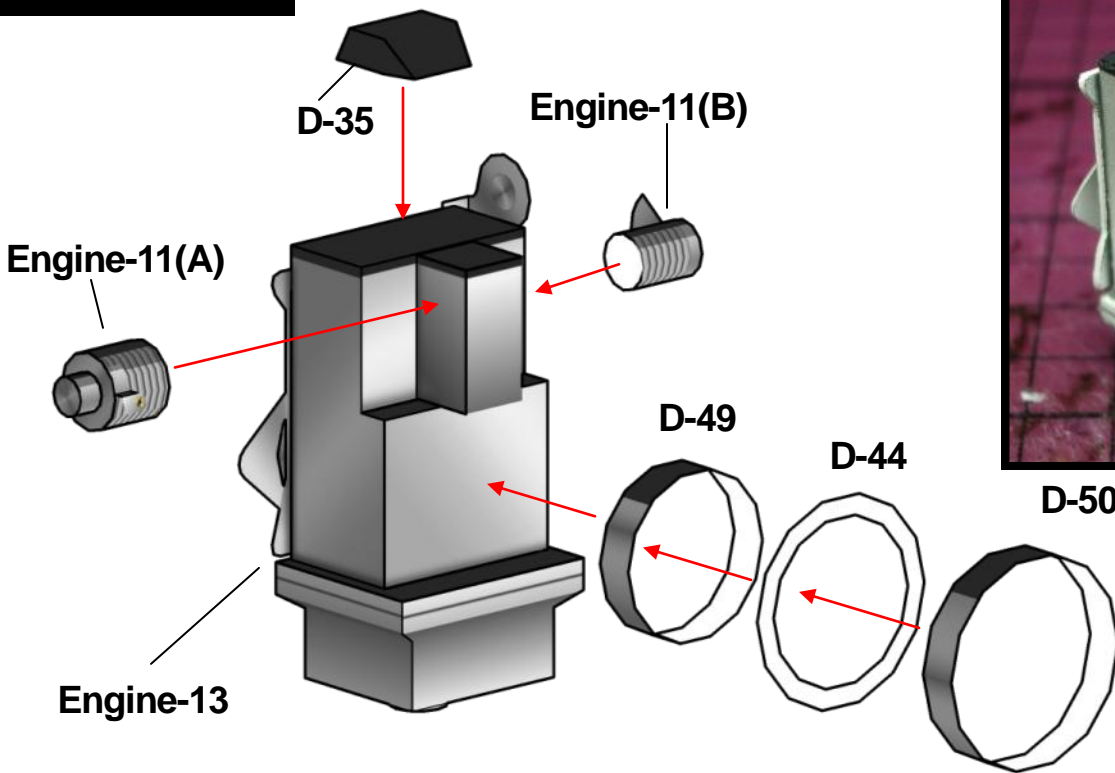


# Engine Assembly

## Engine-13

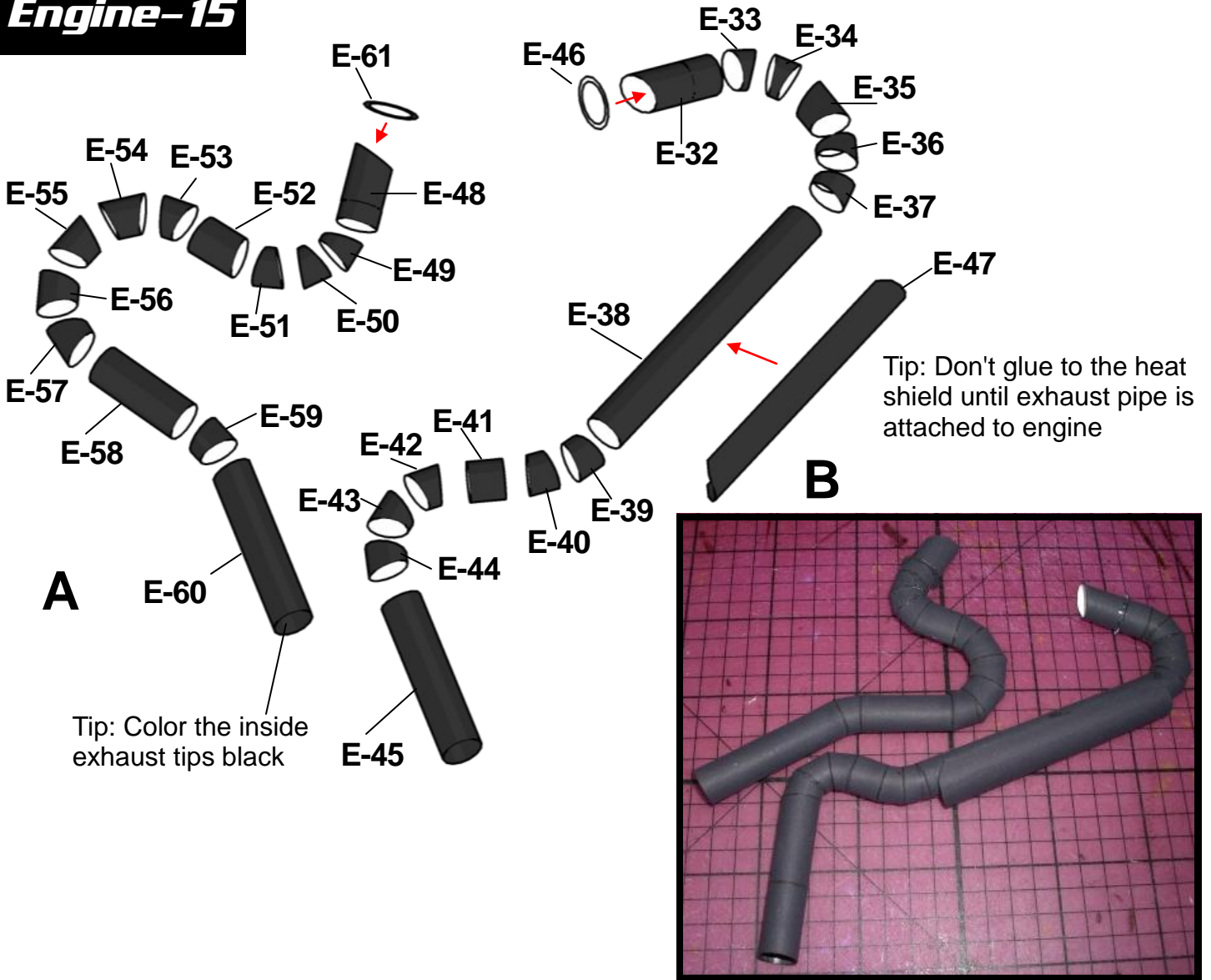


## Engine-14

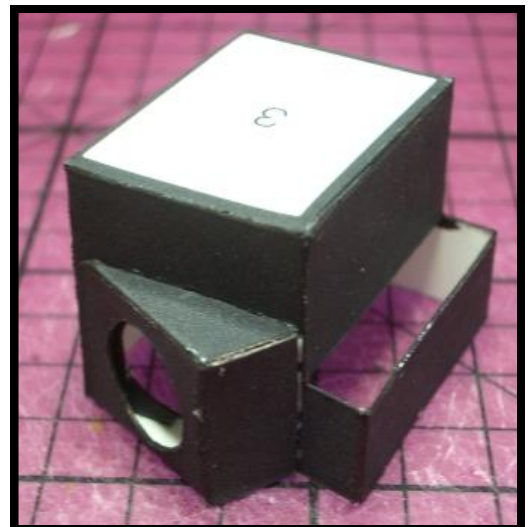
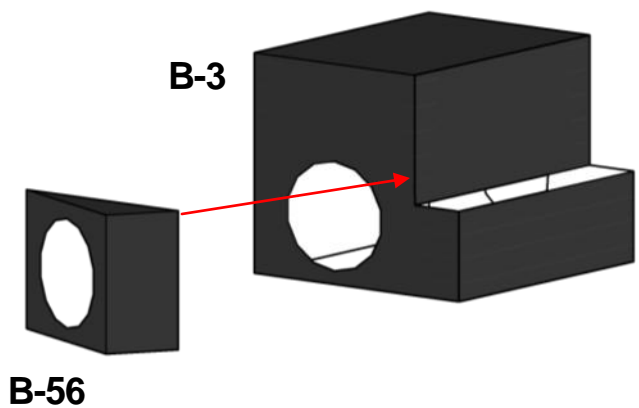


# Engine Assembly

## Engine-15



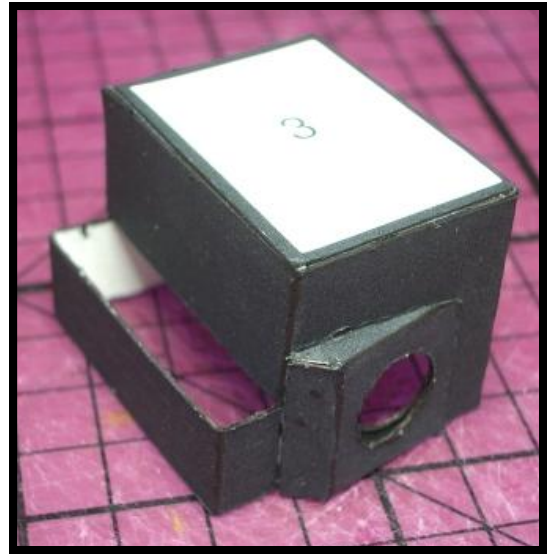
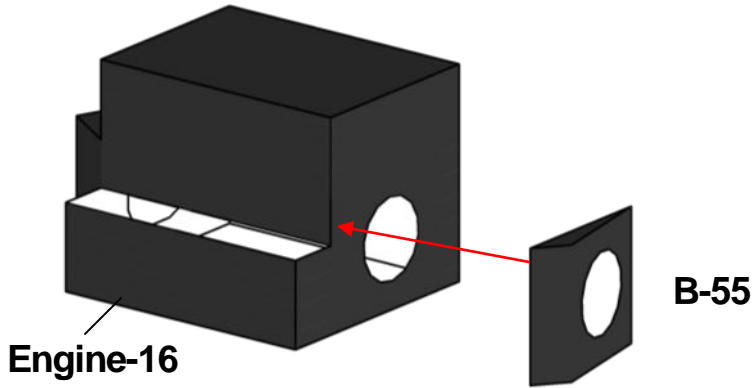
## Engine-16



\* Right half of engine (repeat step for left side)

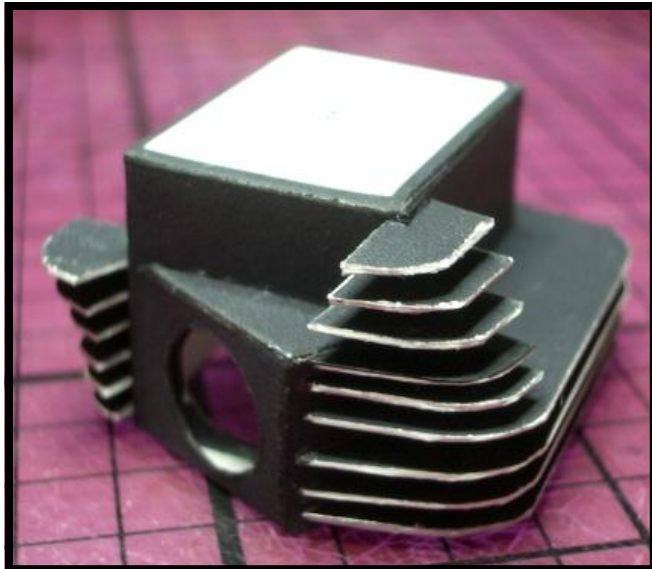
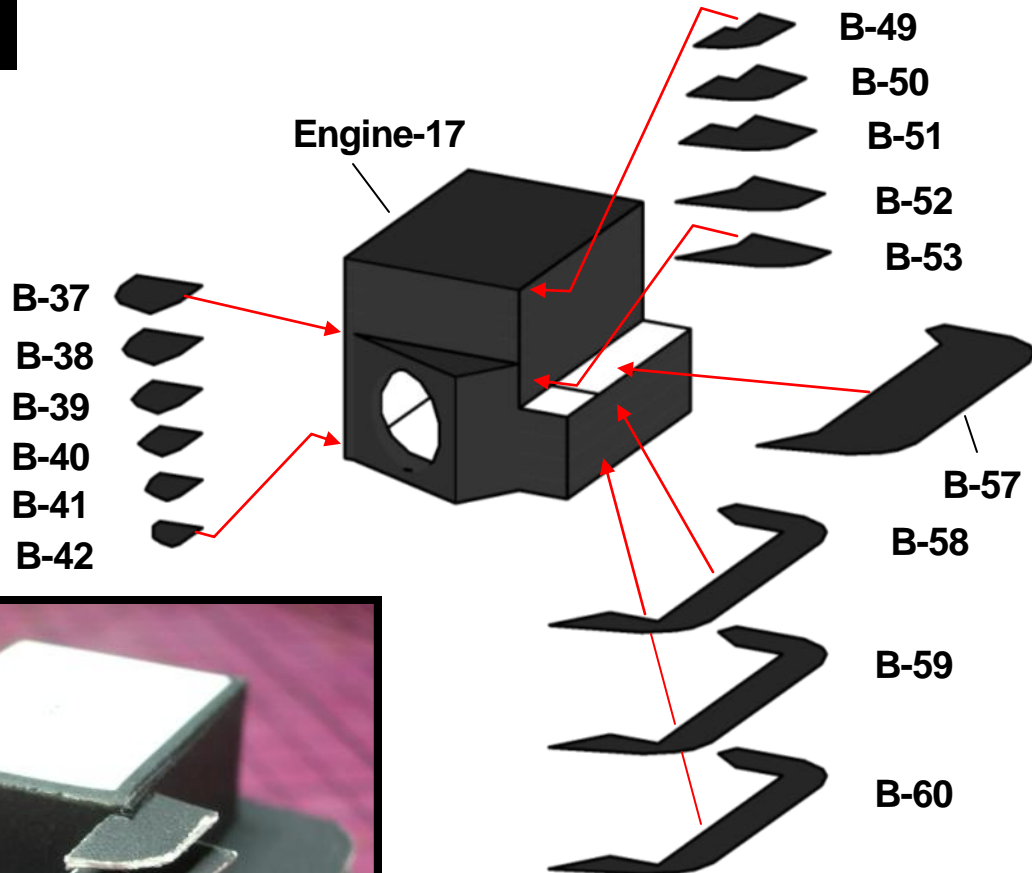
# Engine Assembly

## Engine-17



\* Right half of engine (repeat step for left side)

## Engine-18



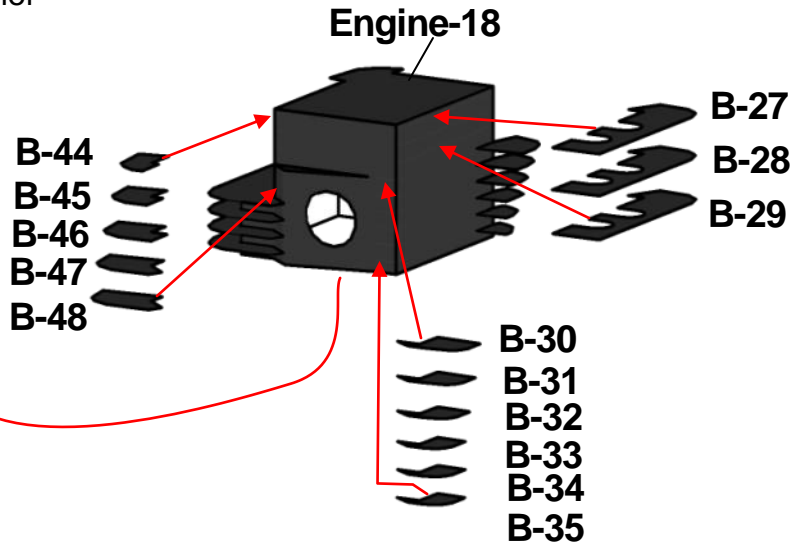
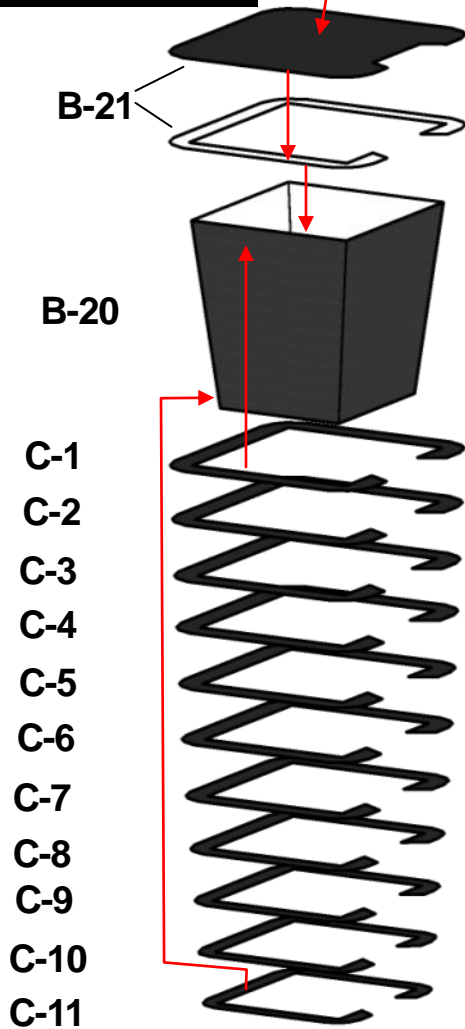
\* Right half of engine (repeat step for left side)



# Engine Assembly

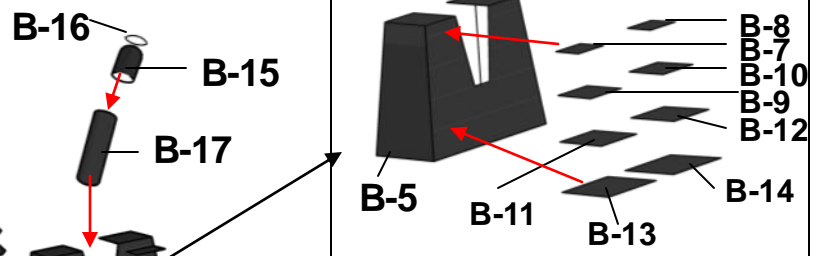
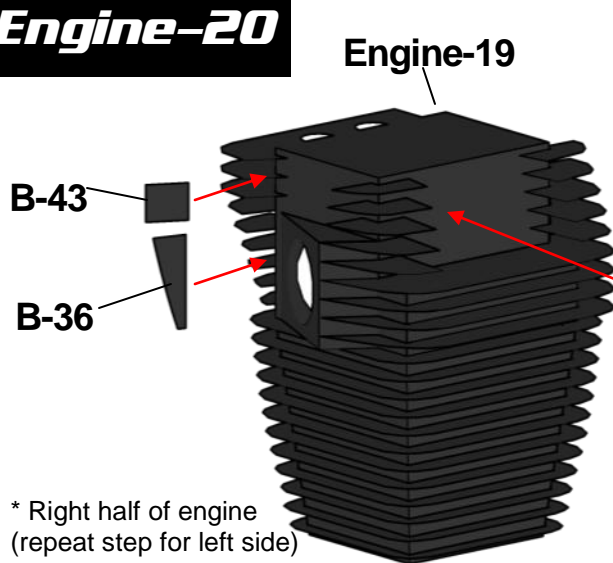
## Engine-19

Tip: Cut all fins along the fold line into two pieces and then glued together



\* Right half of engine (repeat step for left side)

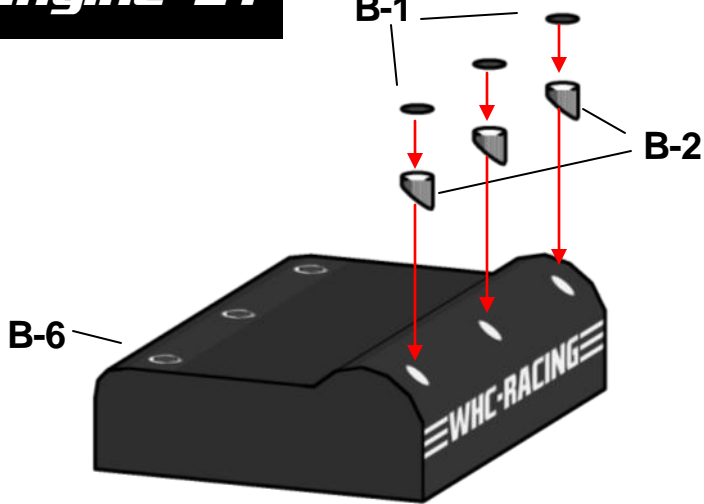
## Engine-20



\* Right half of engine (repeat step for left side)

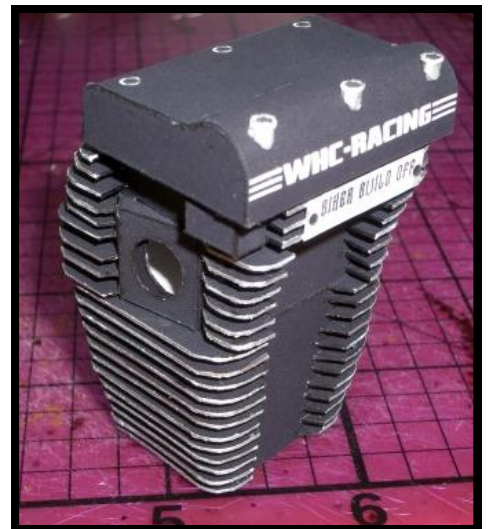
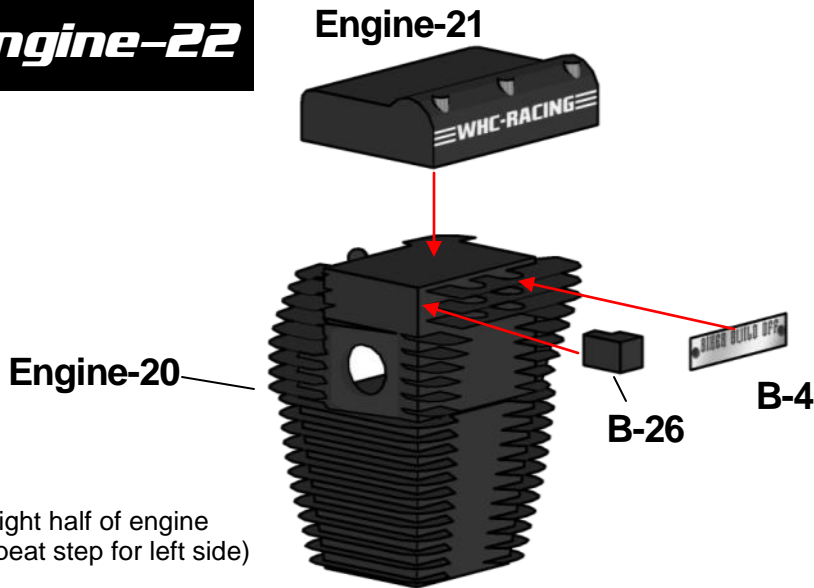
# Engine Assembly

## Engine-21



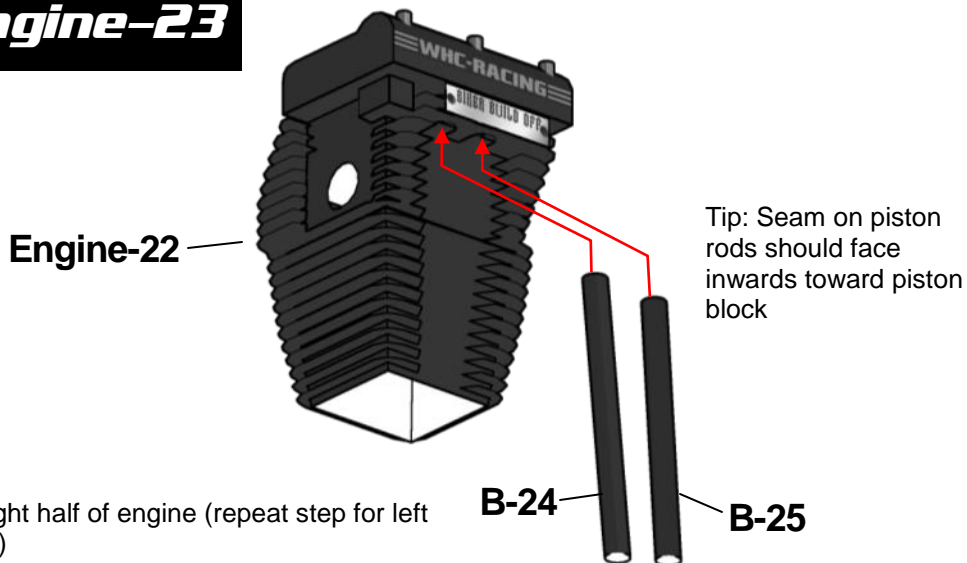
\* Right half of engine (repeat step for left side)

## Engine-22



\* Right half of engine  
(repeat step for left side)

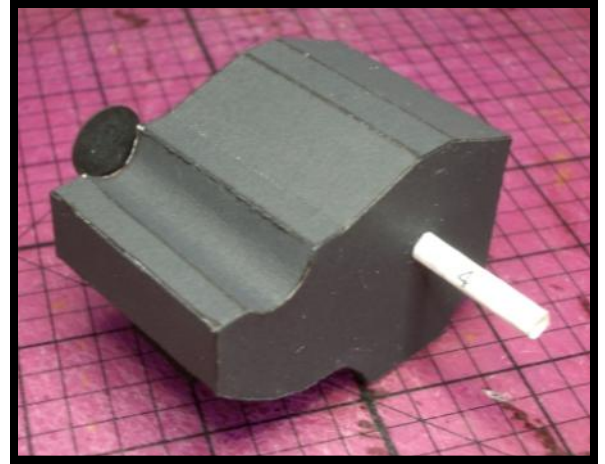
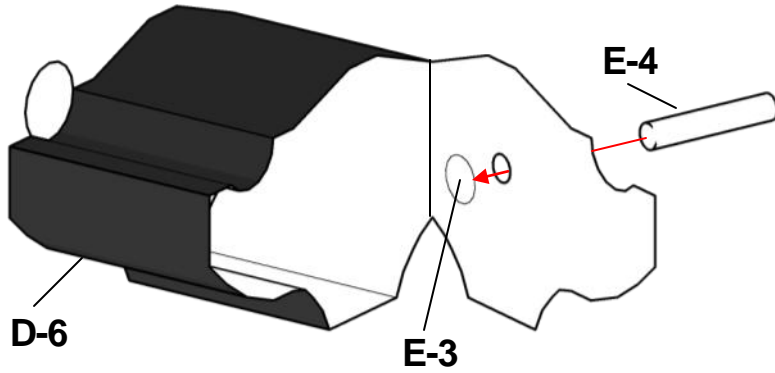
## Engine-23



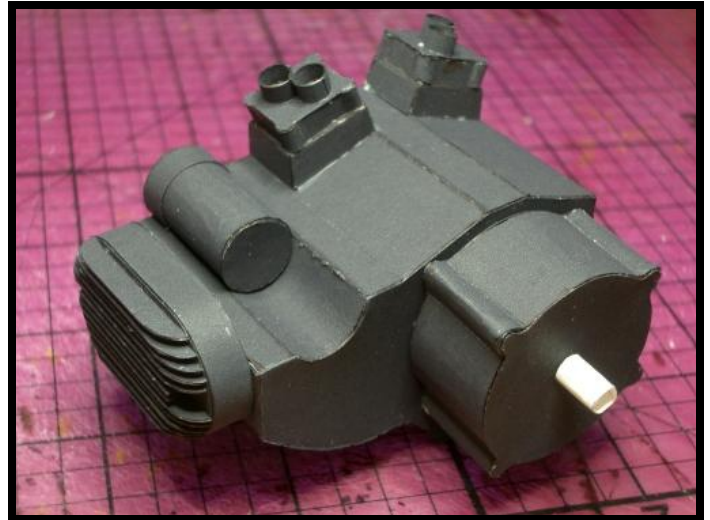
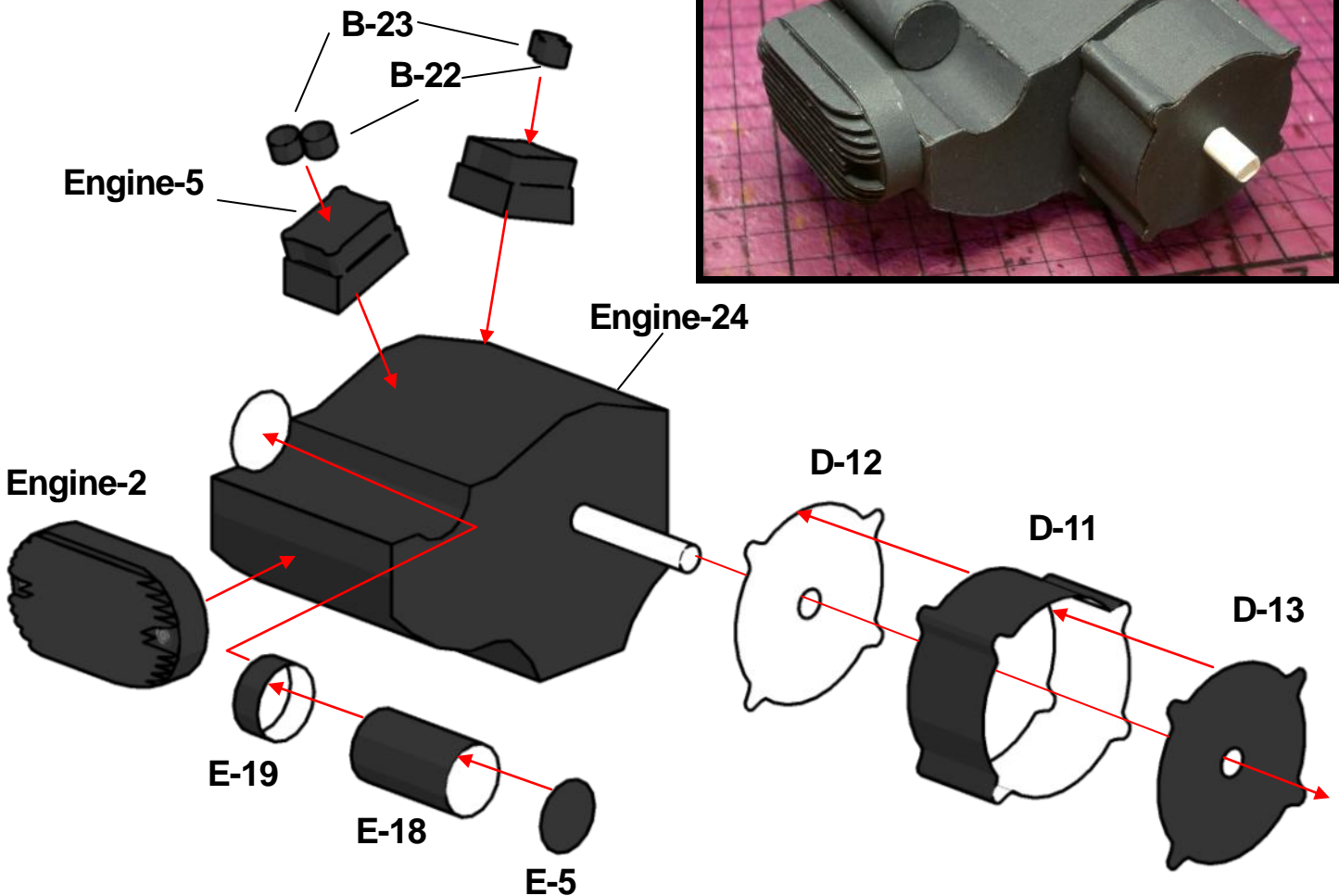
\* Right half of engine (repeat step for left side)

# Engine Assembly

## Engine-24



## Engine-25

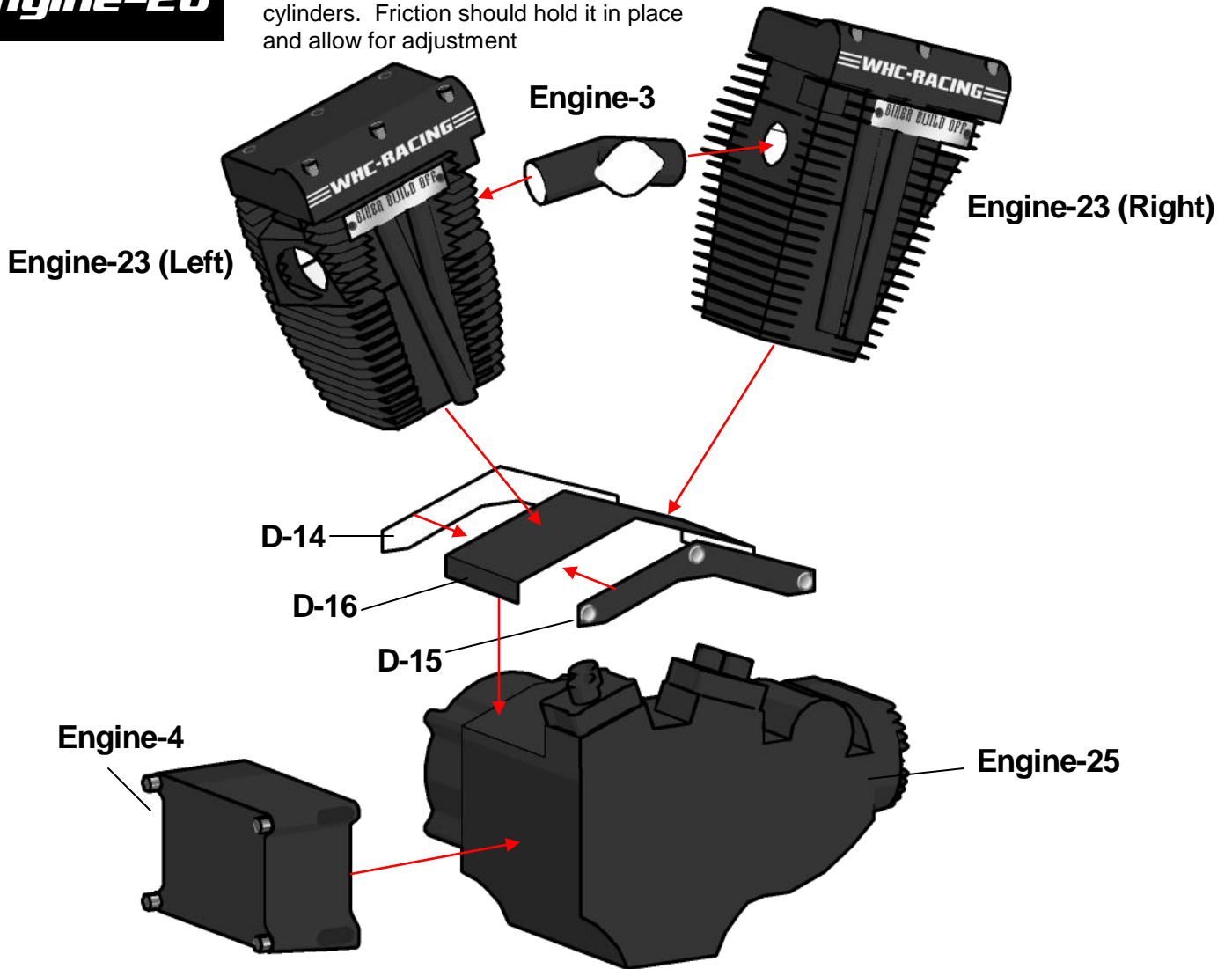




# Engine Assembly

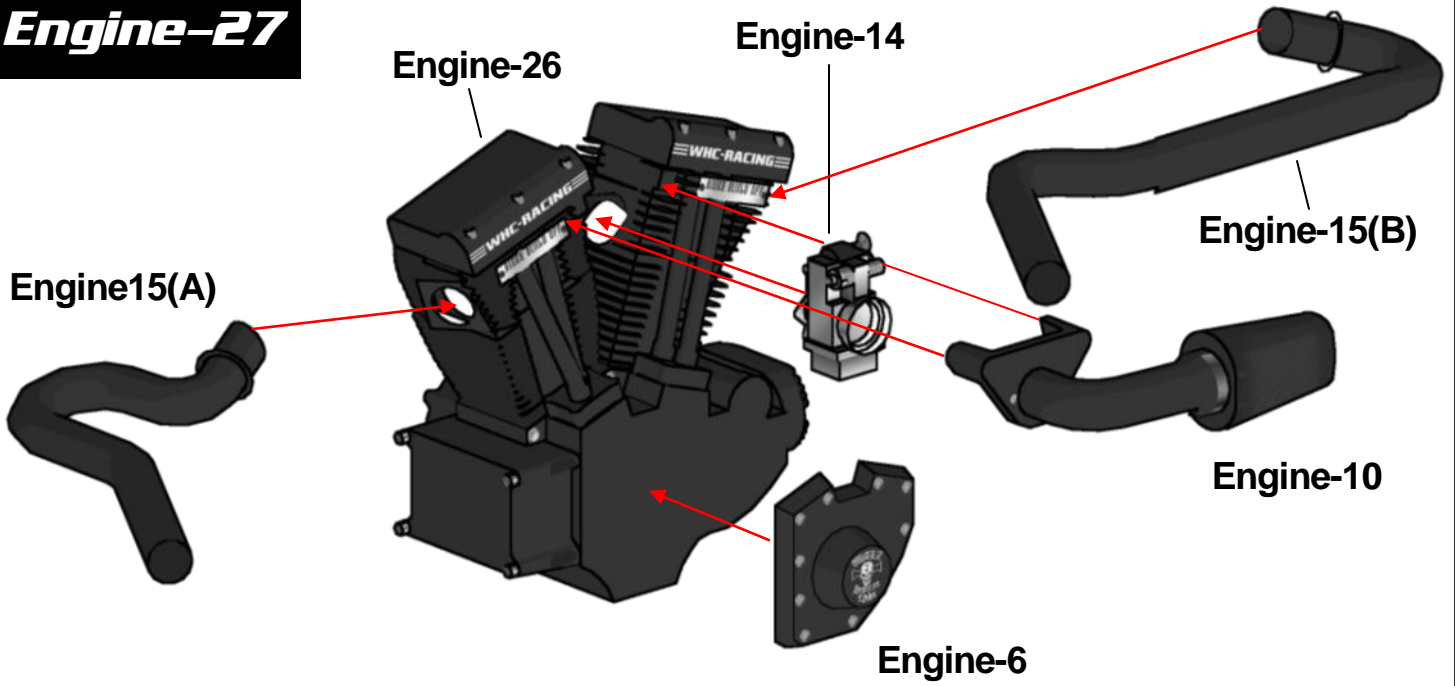
## Engine-26

Tip: Don't clue part Engine-3 to the cylinders. Friction should hold it in place and allow for adjustment

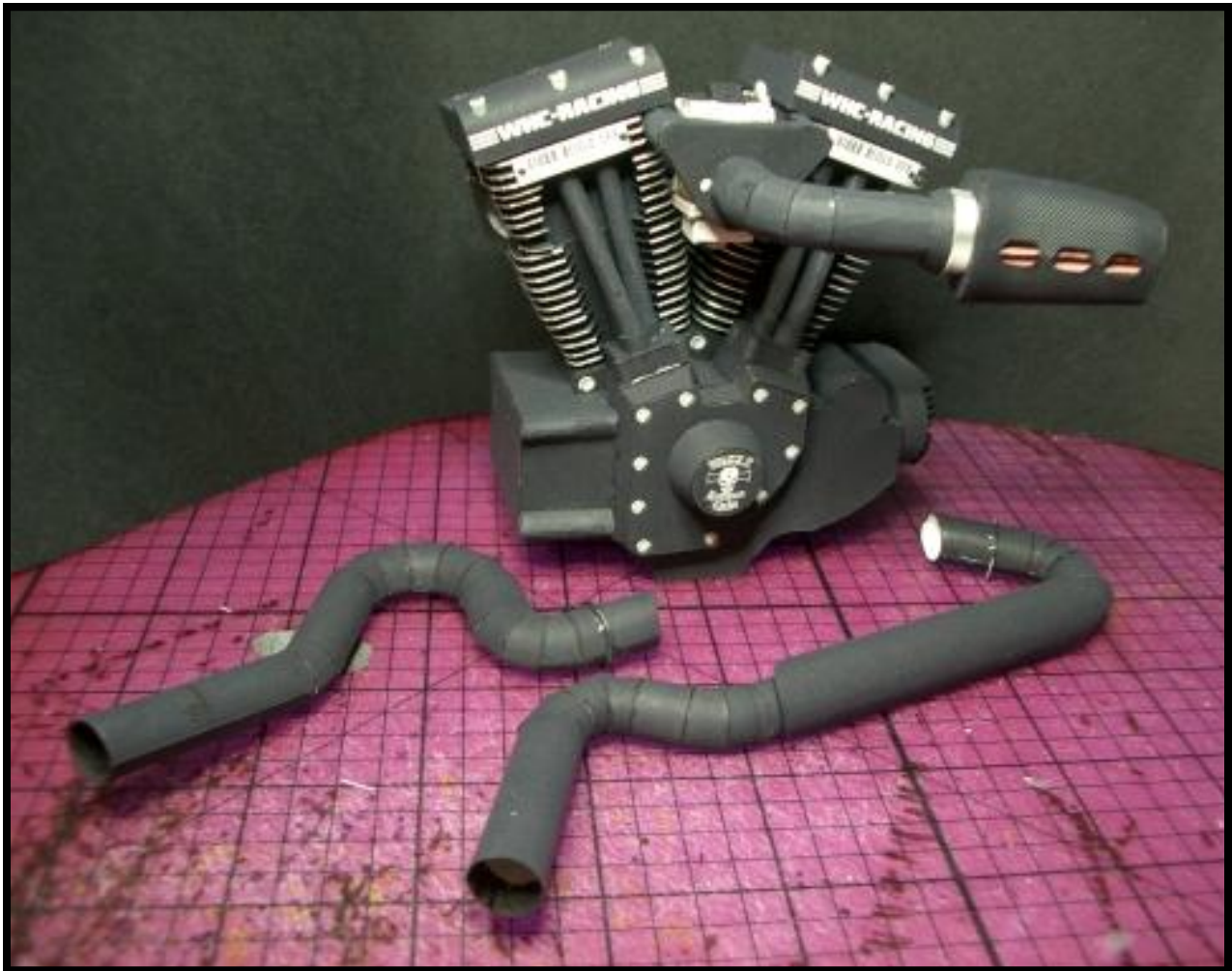


# Engine Assembly

## Engine-27

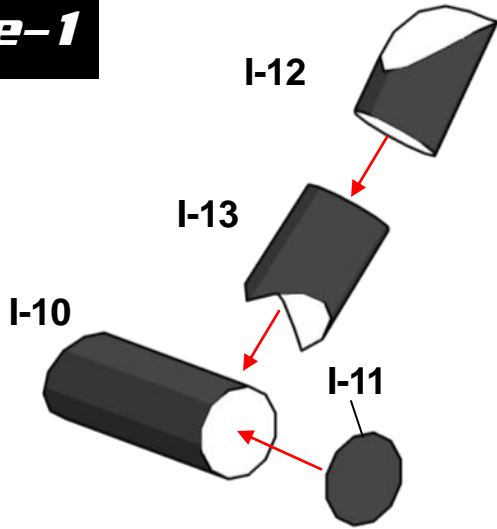


Tip: Test fit exhaust pipes but do not glue yet.

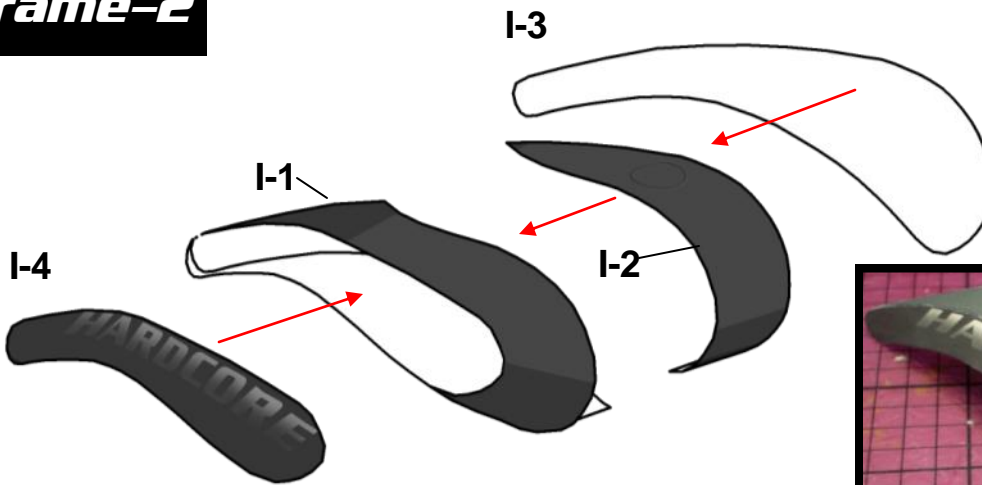


# Frame Assembly

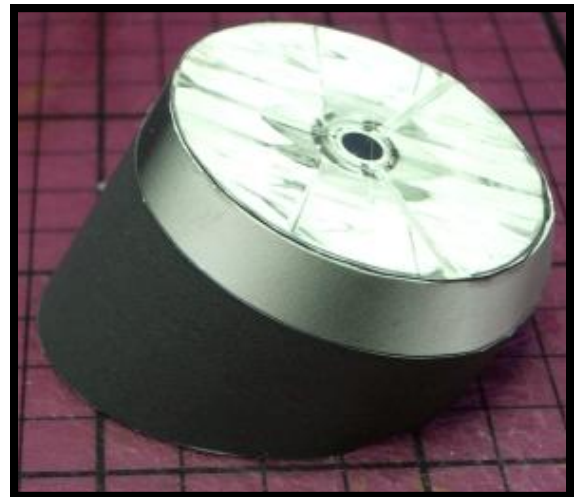
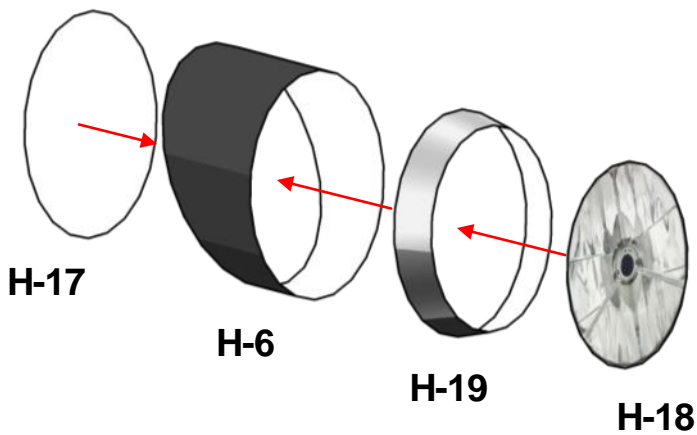
## Frame-1



## Frame-2



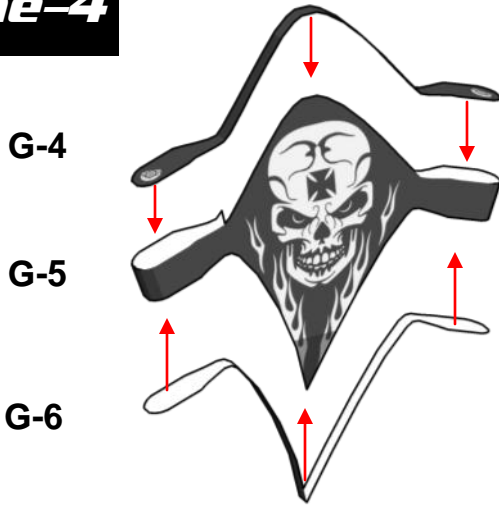
## Frame-3



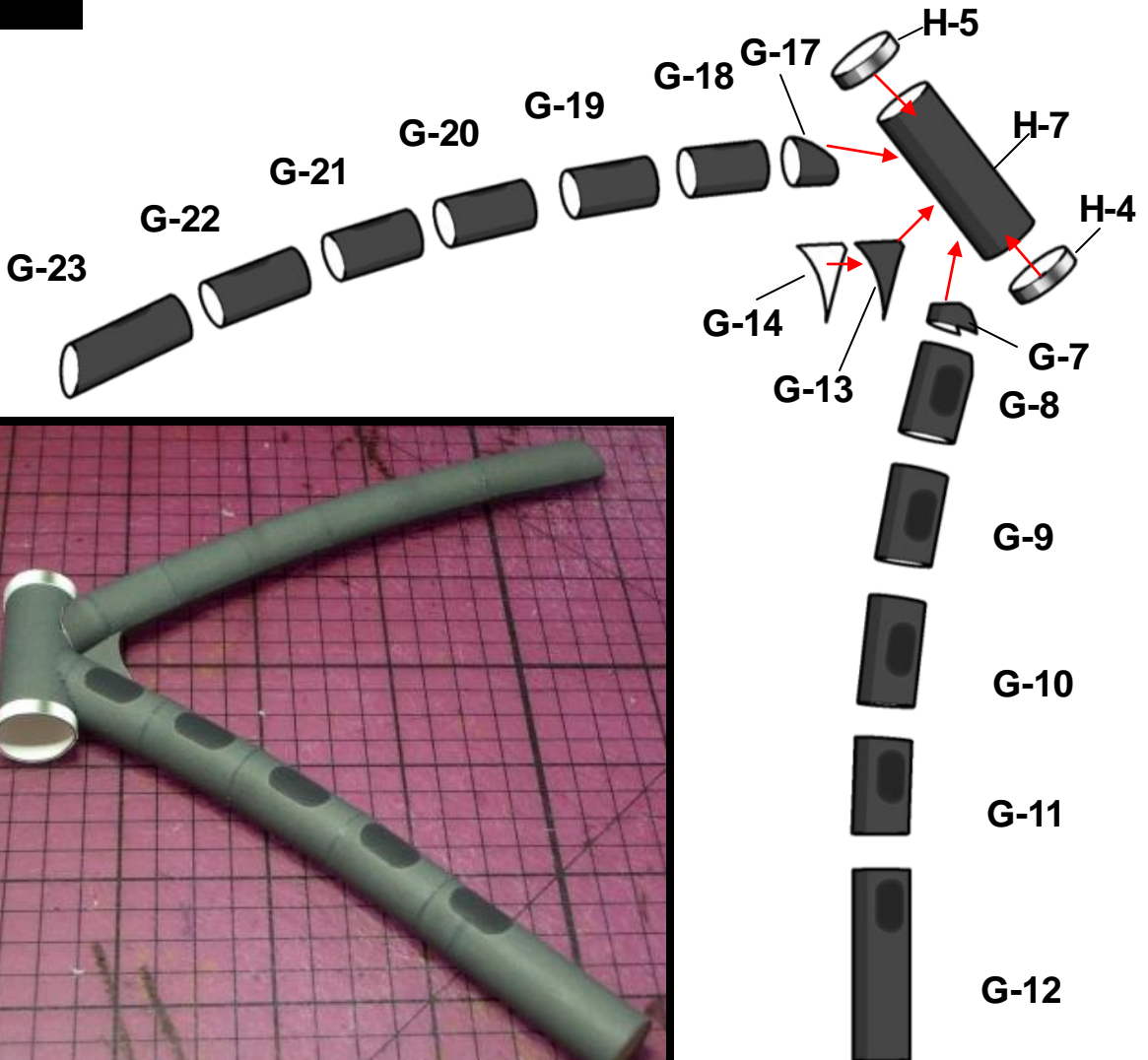


# Frame Assembly

## Frame-4

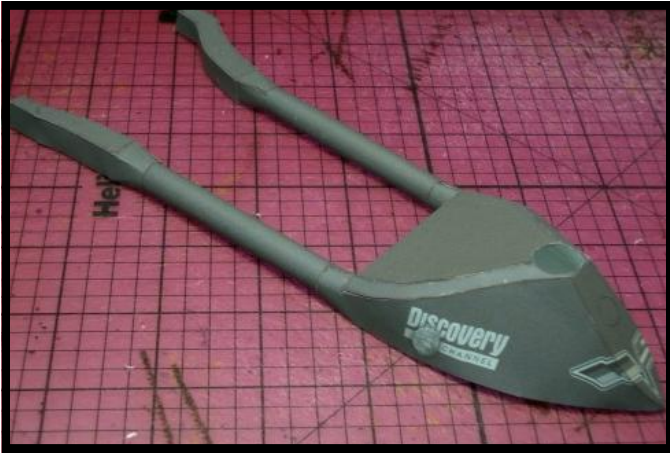
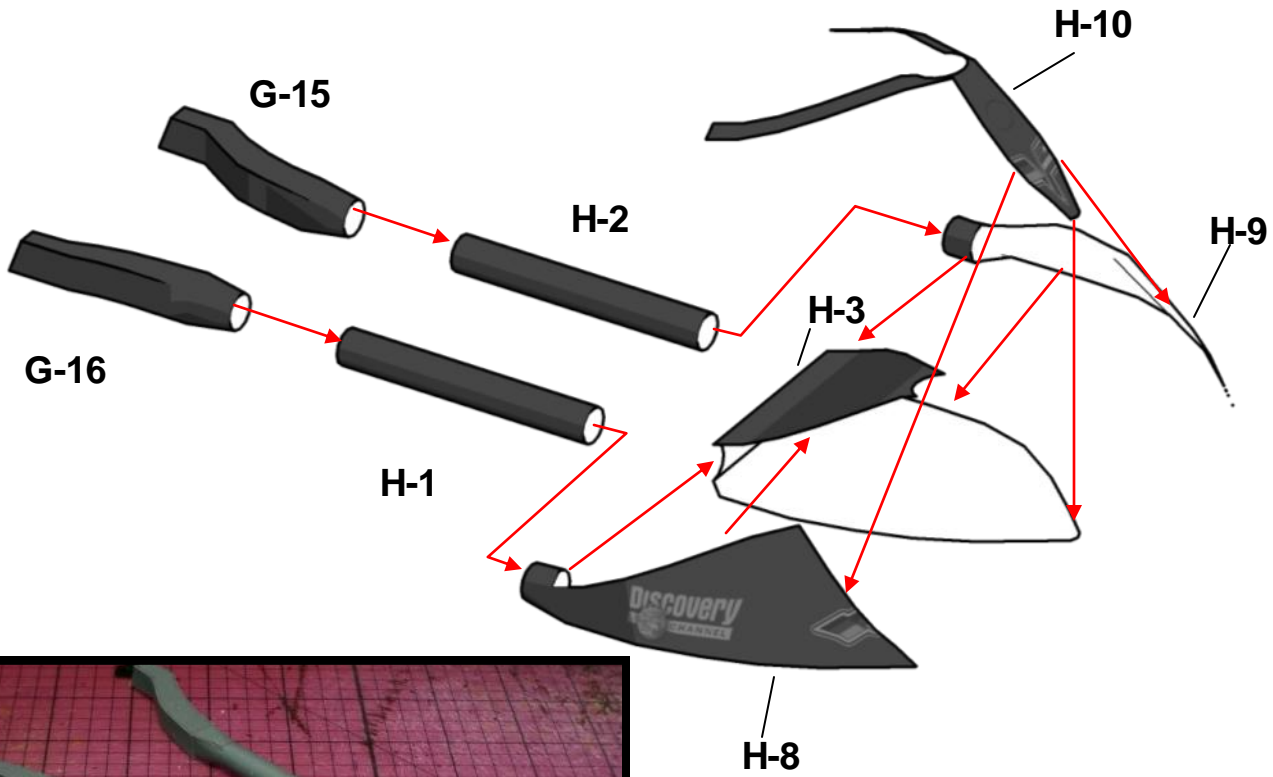


## Frame-5

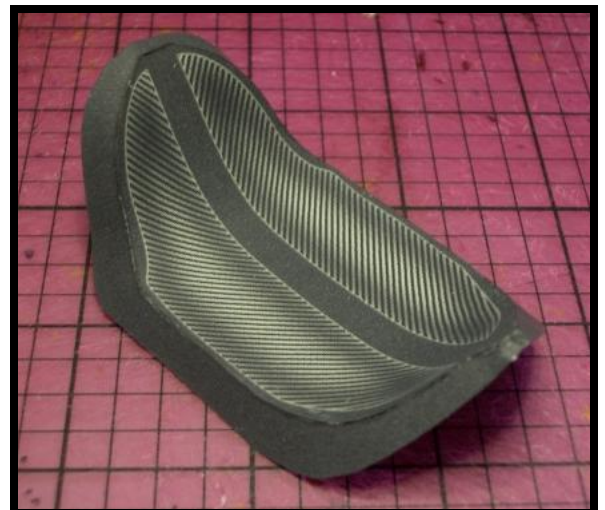
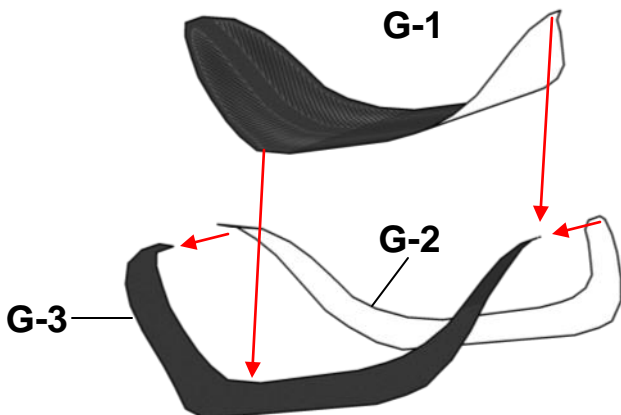


# Frame Assembly

## Frame-6

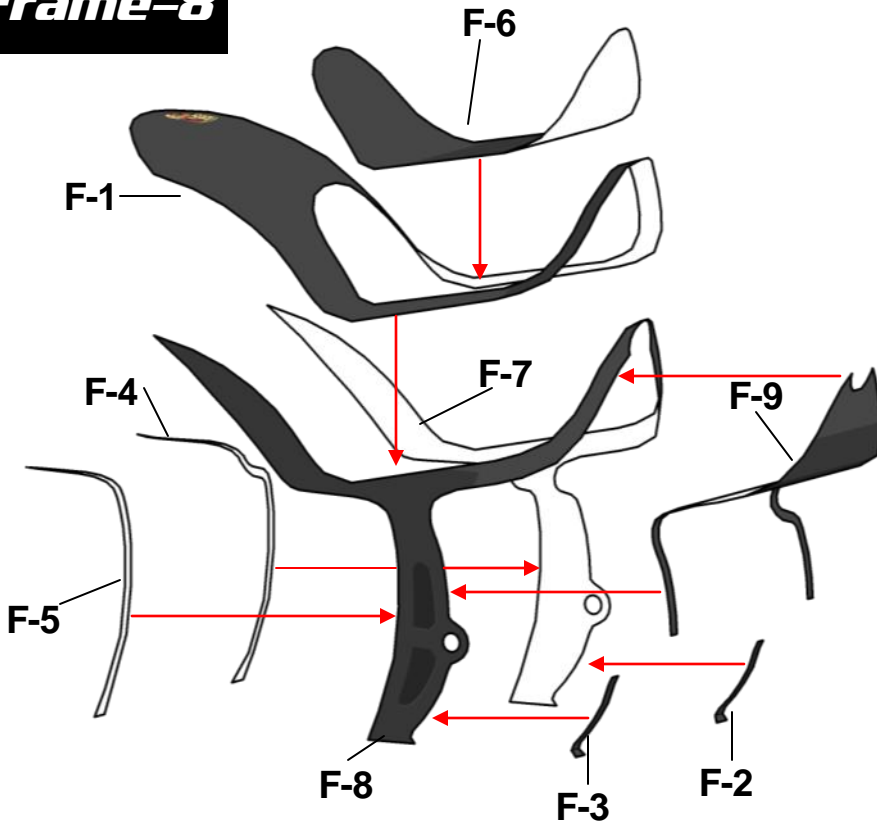


## Frame-7

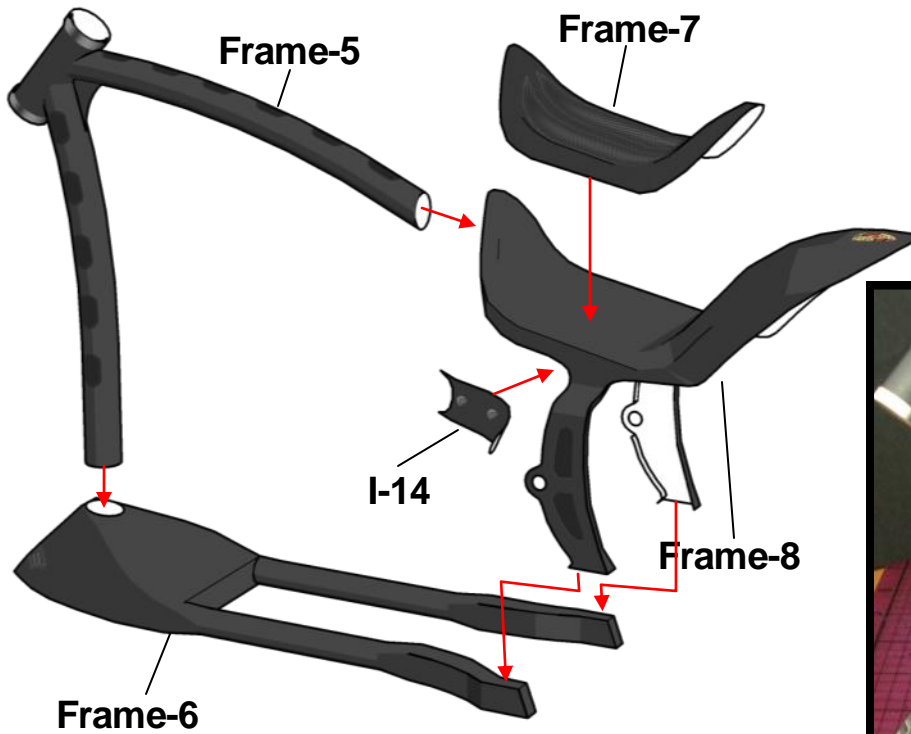


# Frame Assembly

## Frame-8



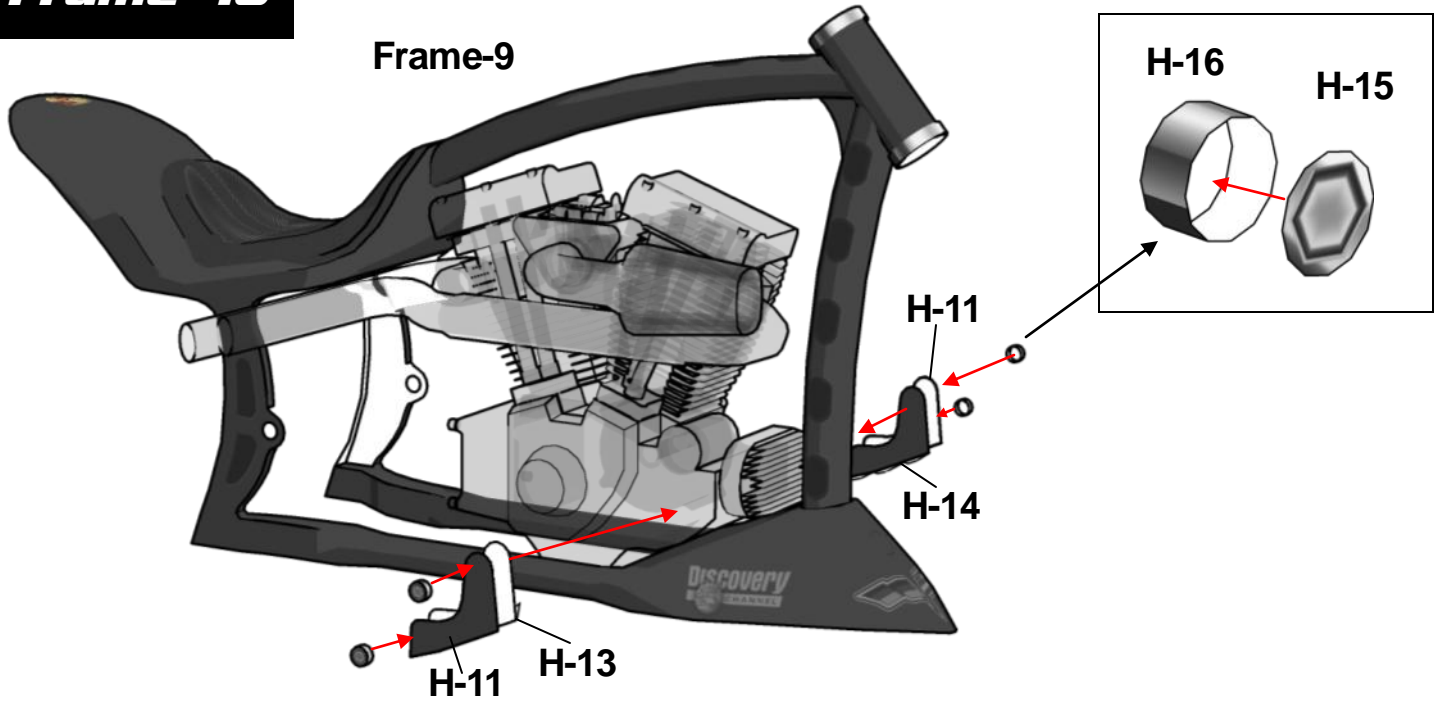
## Frame-9



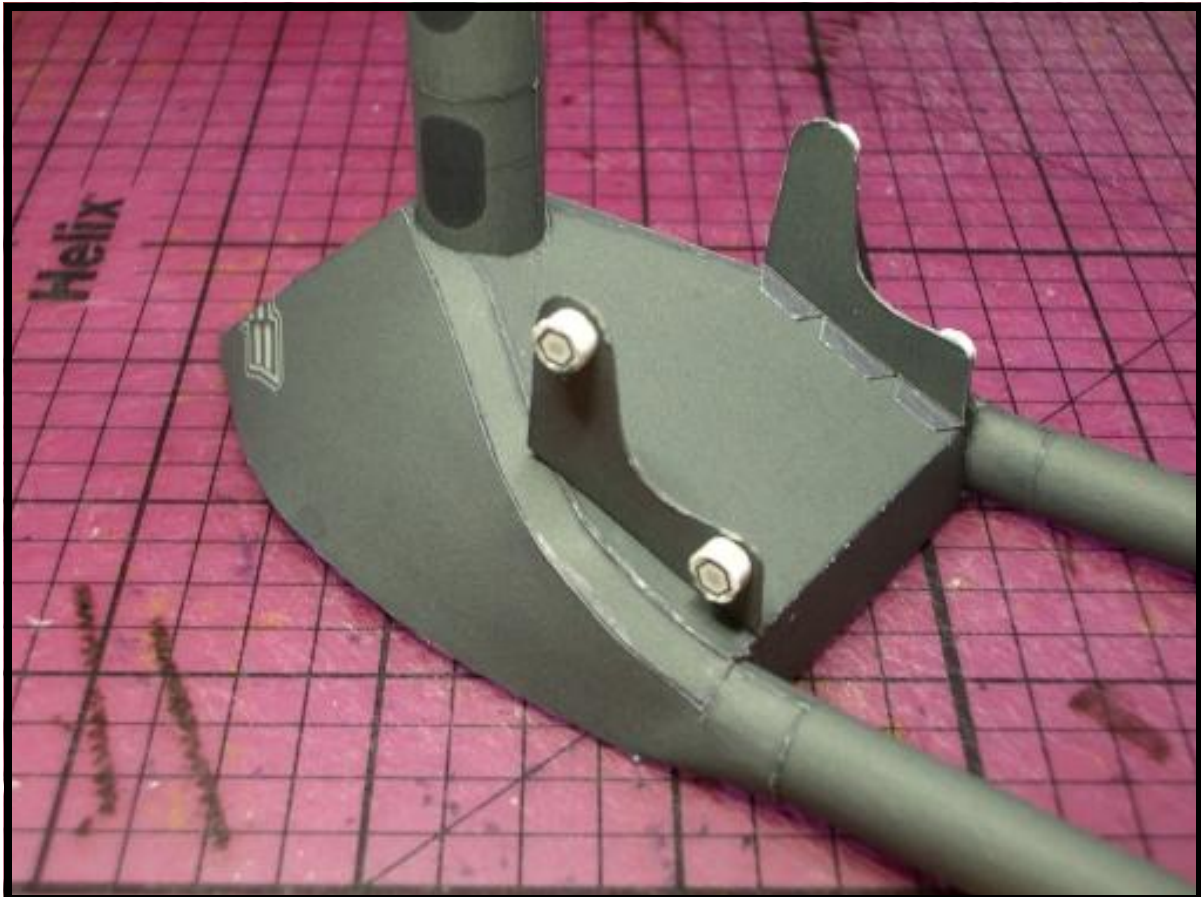


# Frame Assembly

## Frame-10

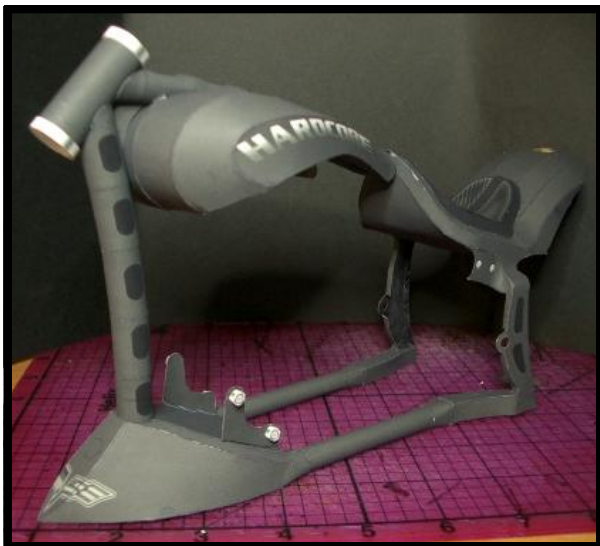
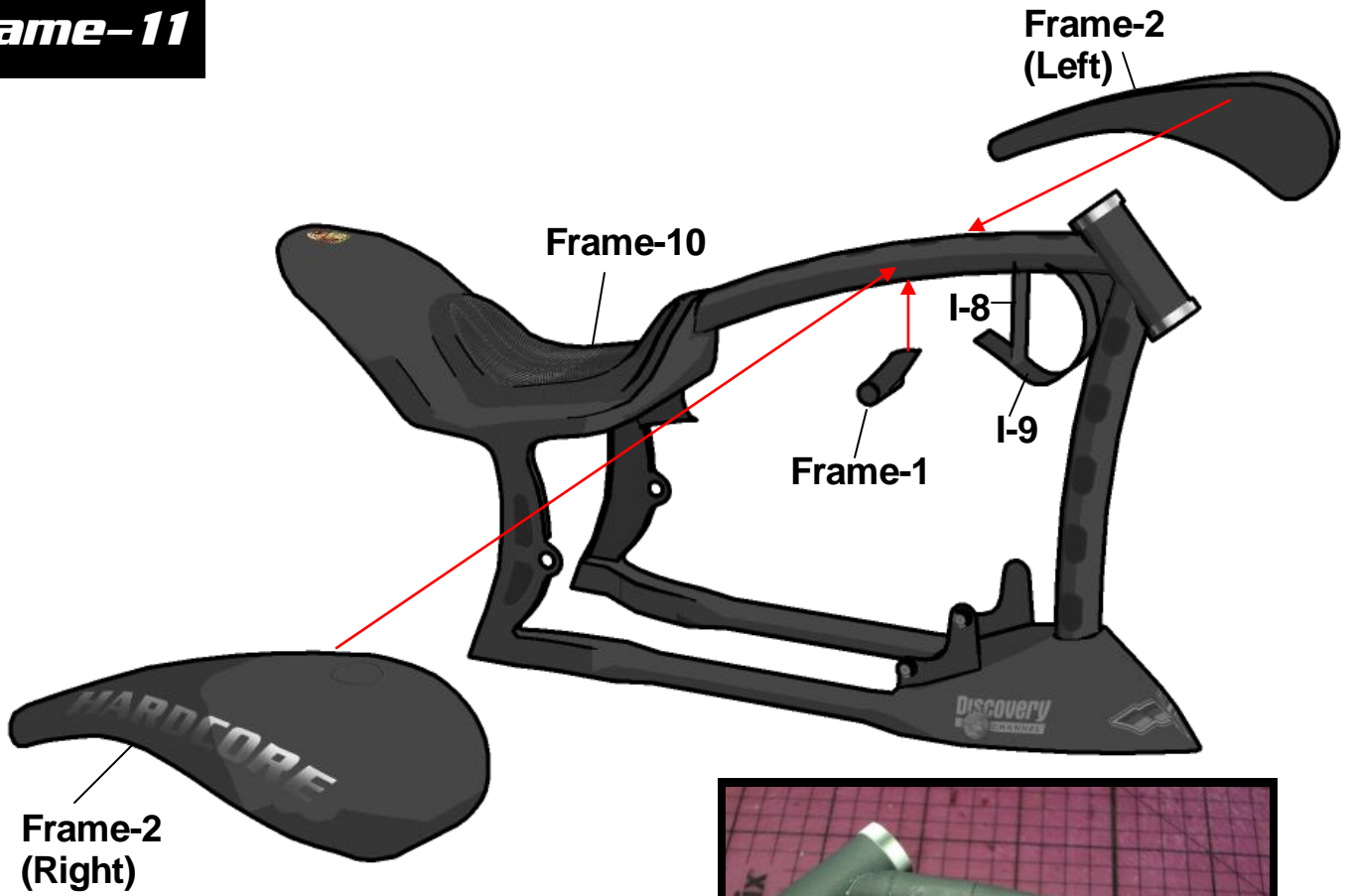


Tip: Use the engine as a reference to properly position the mounts (parts H11 - H14) on the frame.



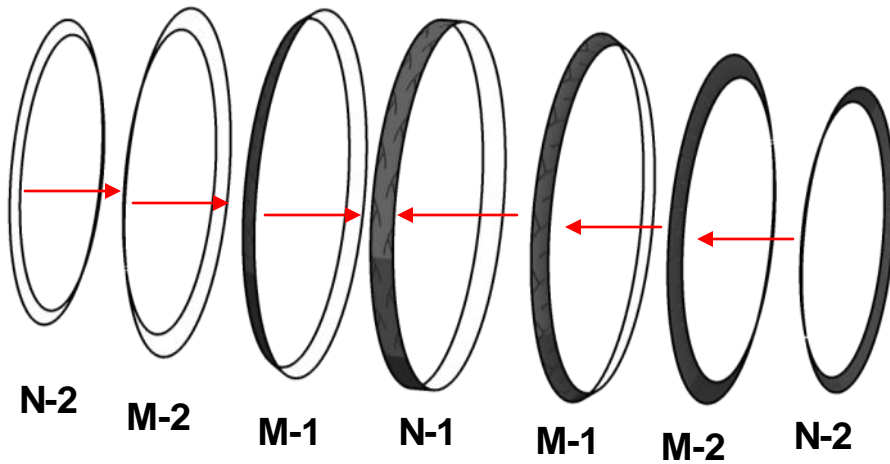
# Frame Assembly

## Frame-11

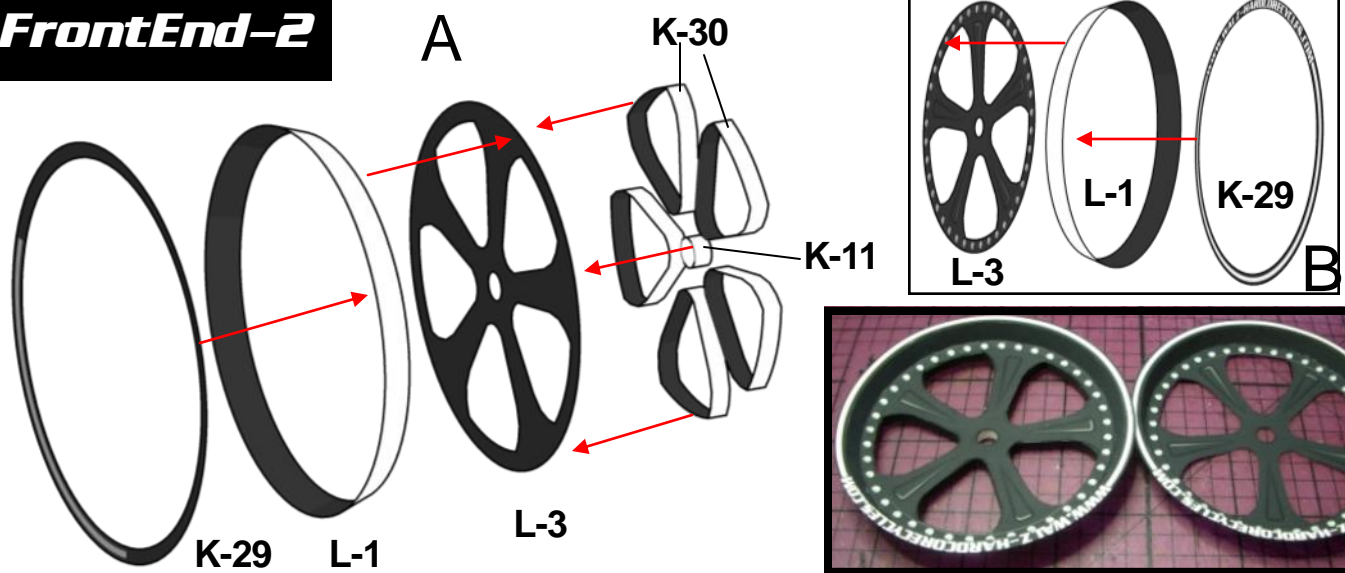


# Front End Assembly

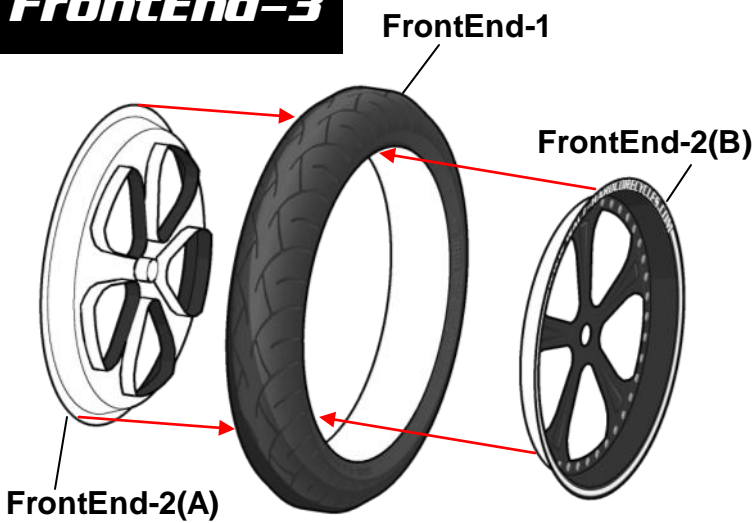
## FrontEnd-1



## FrontEnd-2



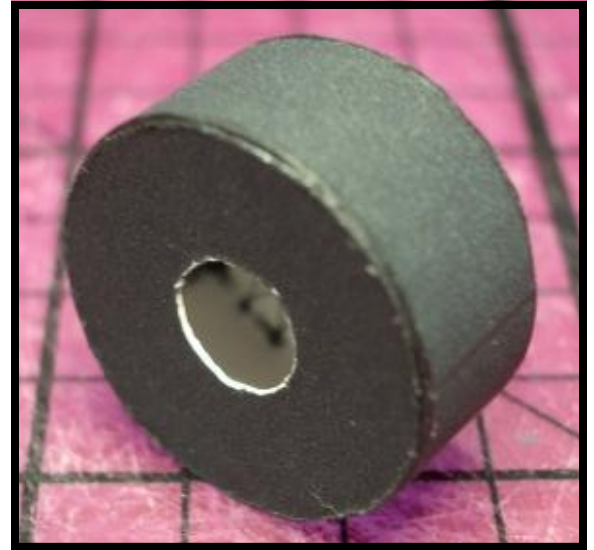
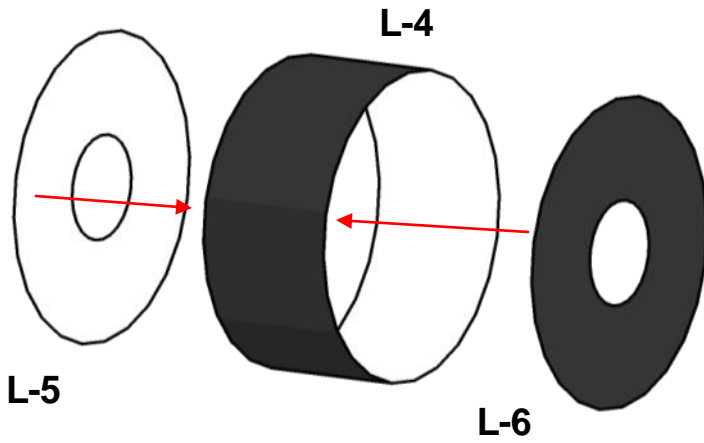
## FrontEnd-3



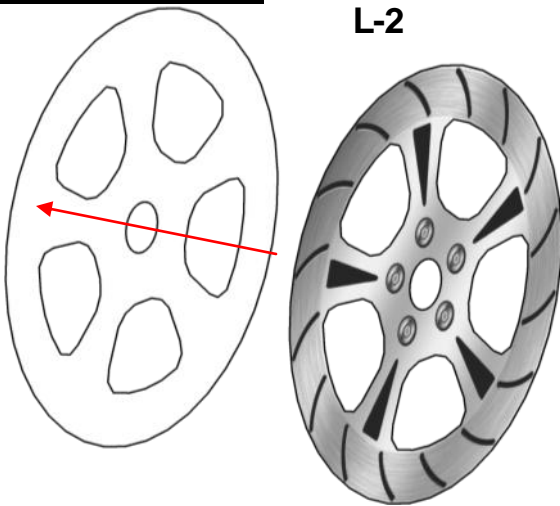


# Front End Assembly

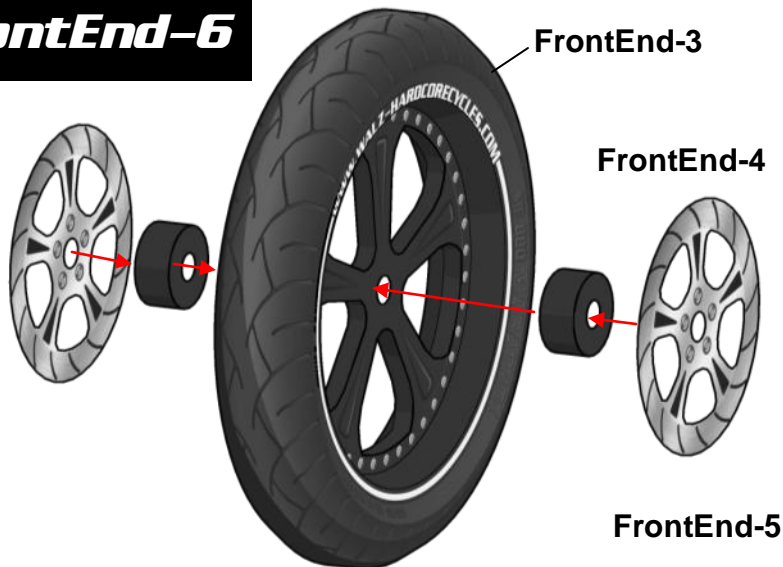
## FrontEnd-4



## FrontEnd-5

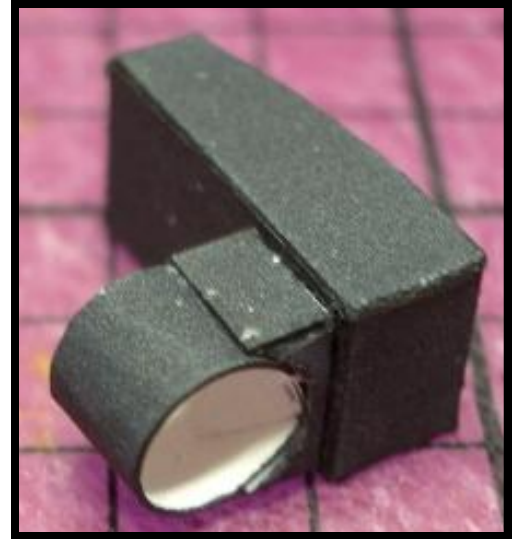
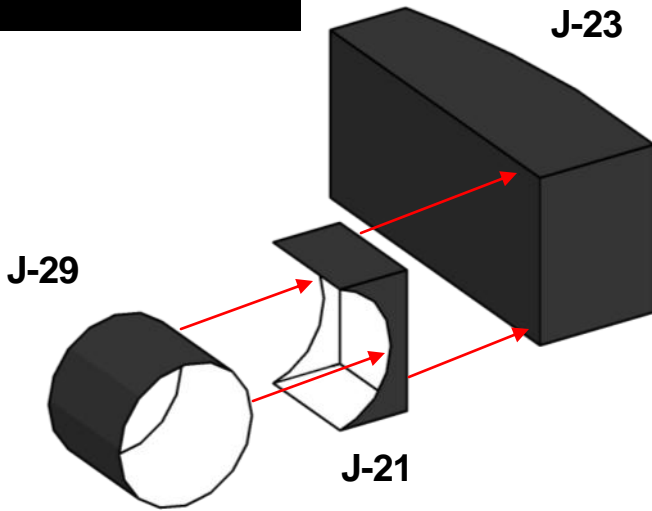


## FrontEnd-6

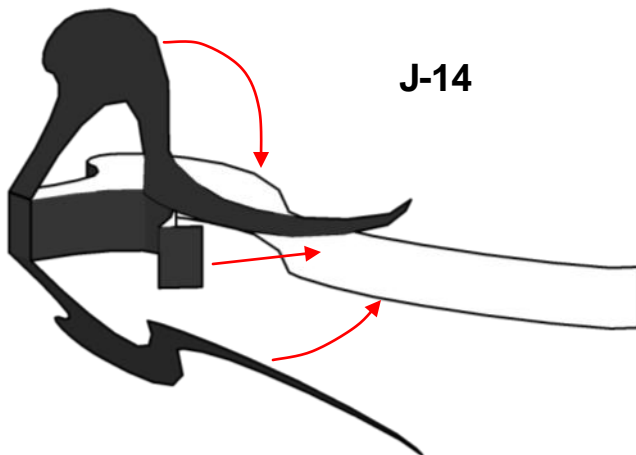


# Front End Assembly

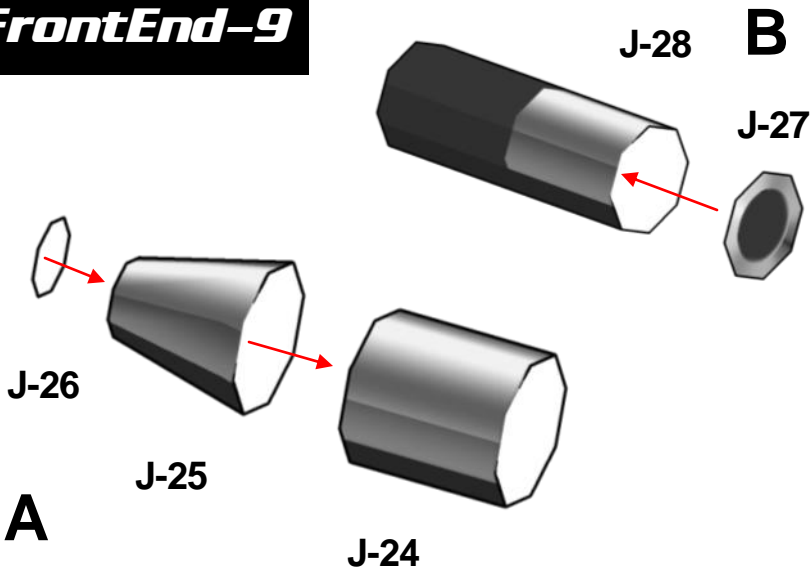
## FrontEnd-7



## FrontEnd-8



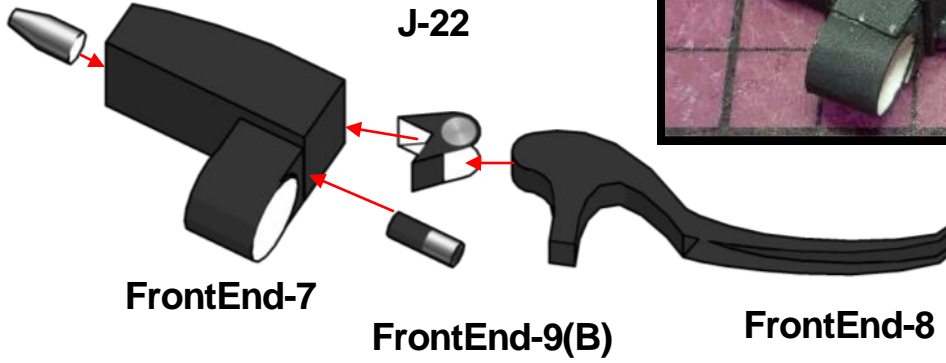
## FrontEnd-9



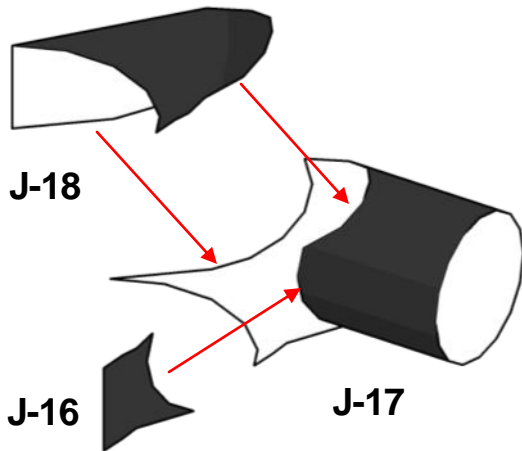
# Front End Assembly

## FrontEnd-10

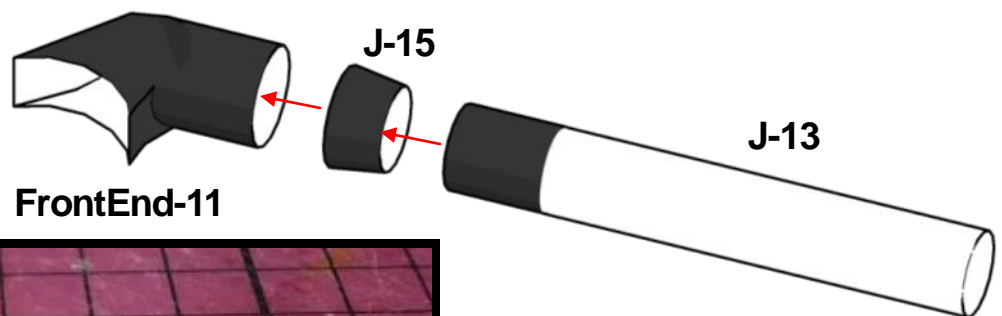
FrontEnd-9(A)



## FrontEnd-11



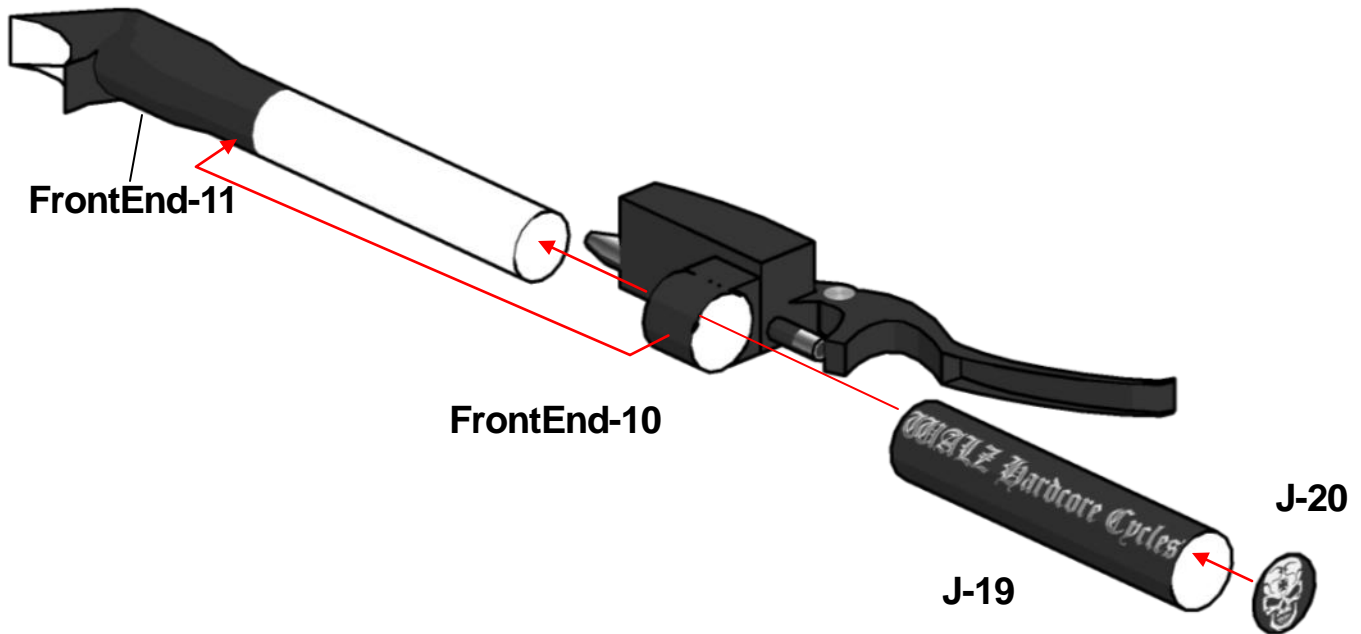
## FrontEnd-12



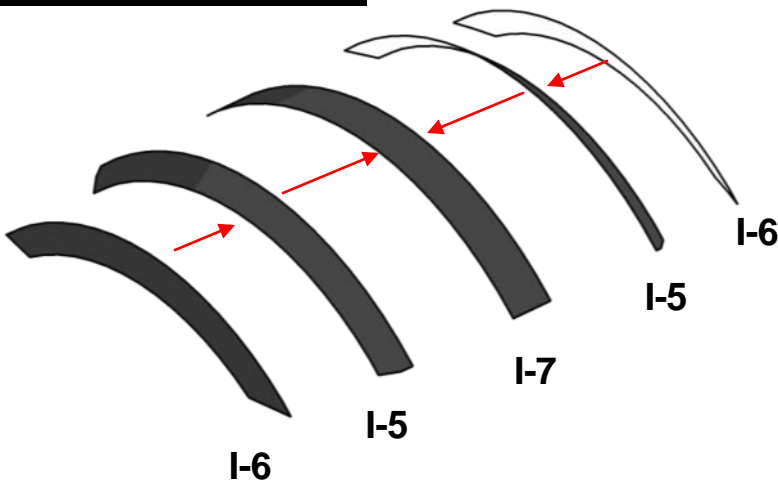


# Front End Assembly

## FrontEnd-13

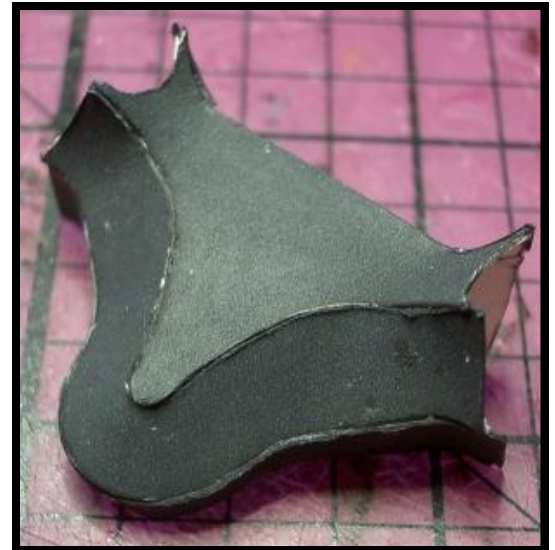
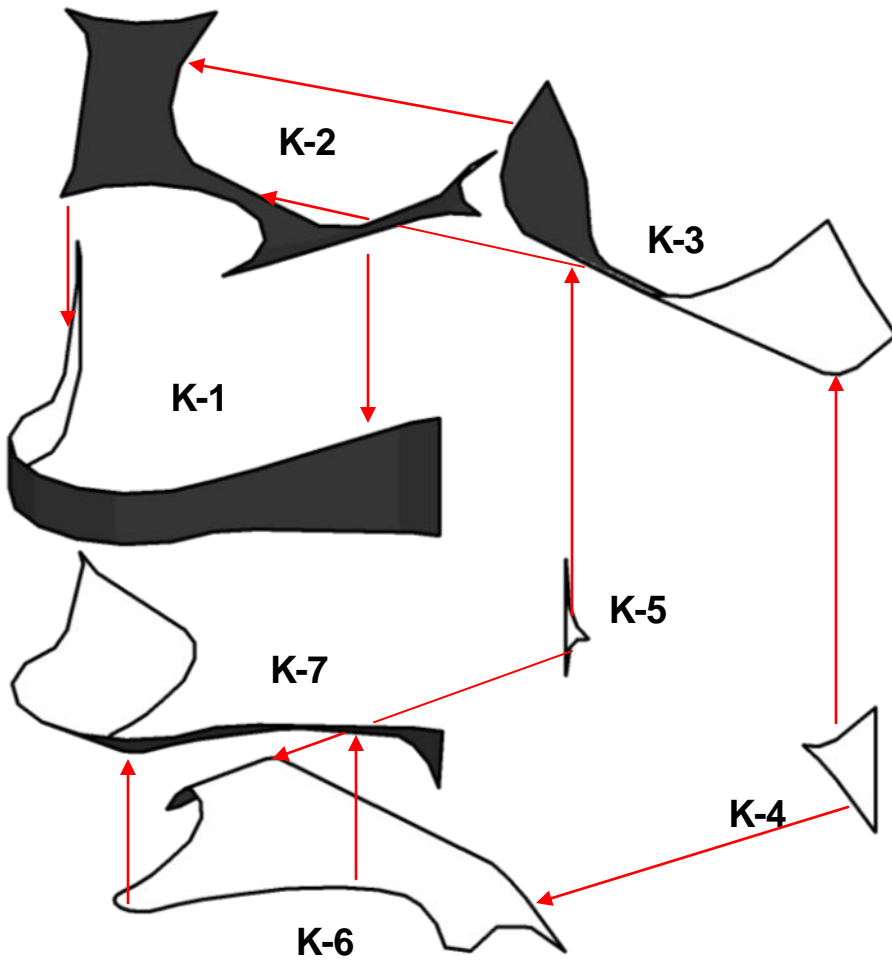


## FrontEnd-14

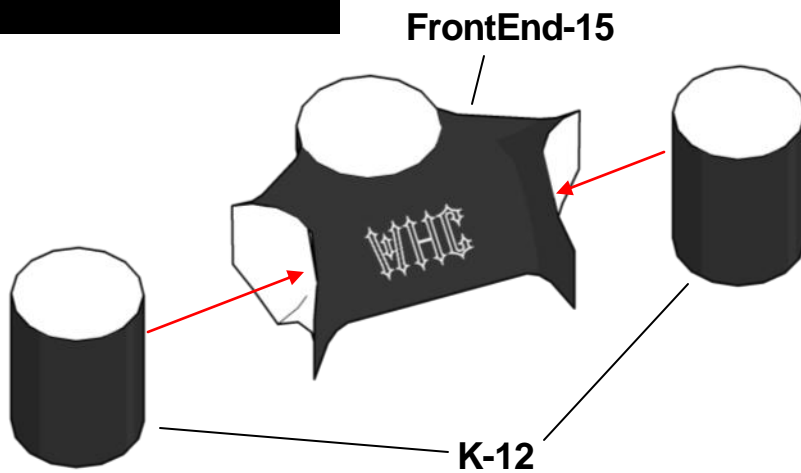


# Front End Assembly

## FrontEnd-15

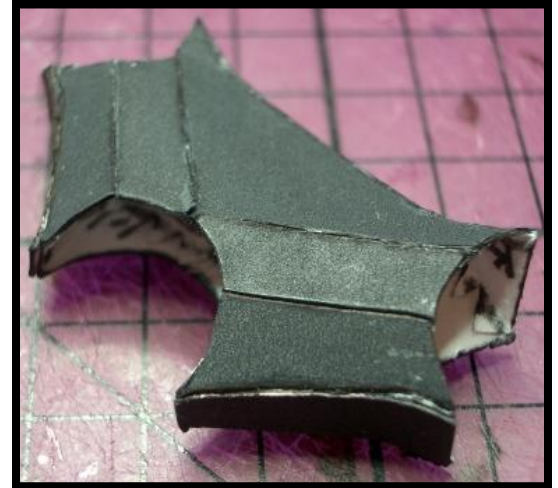
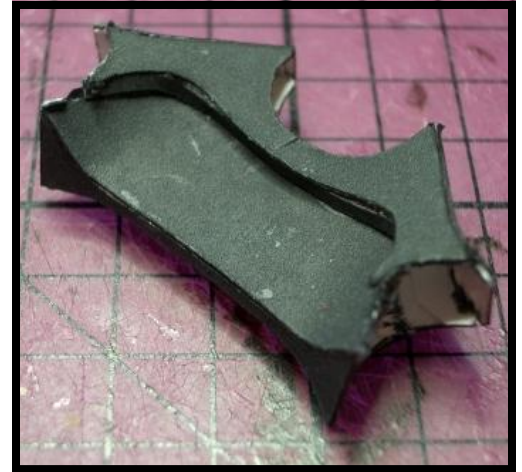
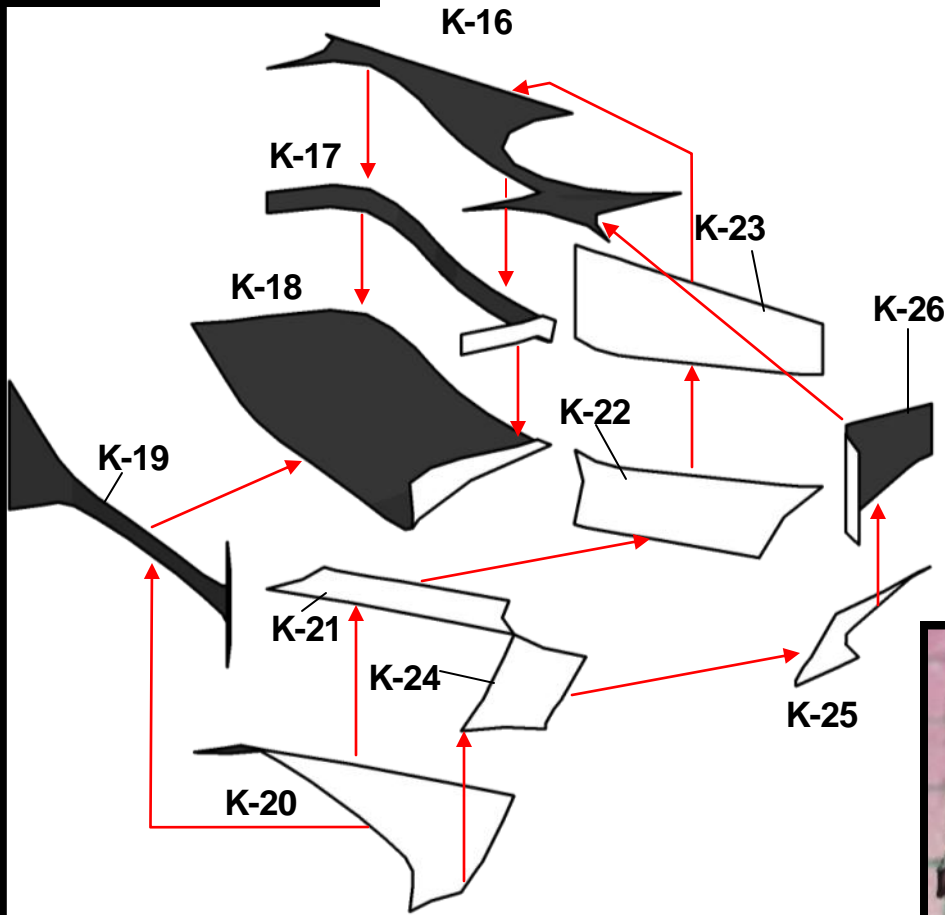


## FrontEnd-16



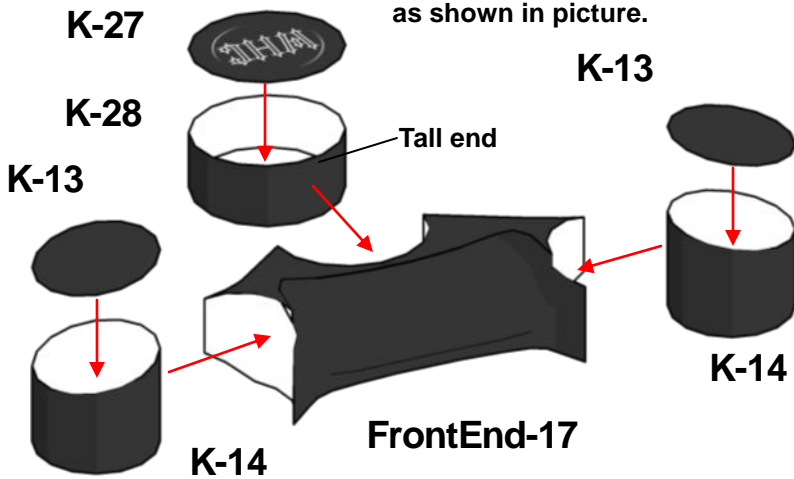
# Front End Assembly

## FrontEnd-17



## FrontEnd-18

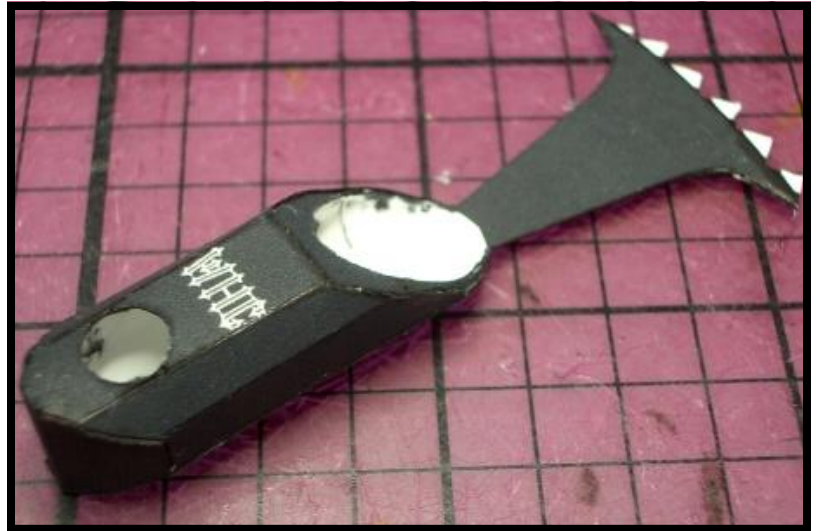
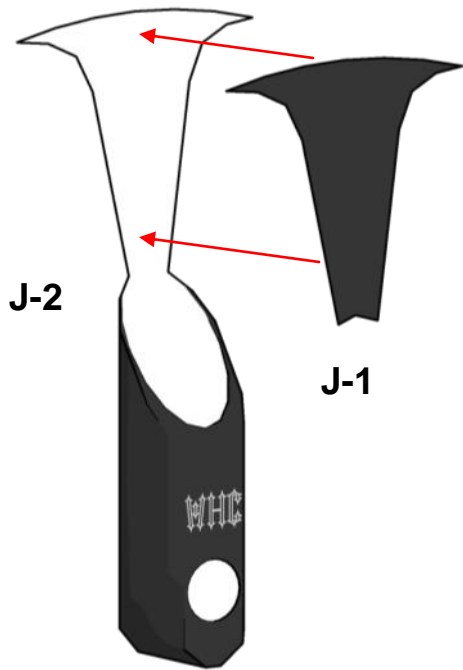
Ensure taller end of K-28 attaches to FrontEnd-18.  
Ensure part K-27 is oriented as shown in picture.





# Front End Assembly

## FrontEnd-19



## FrontEnd-20

Don't glue J-10 to J-12.  
Test fit the two parts at  
this step.

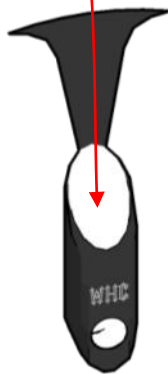
J-10



J-12



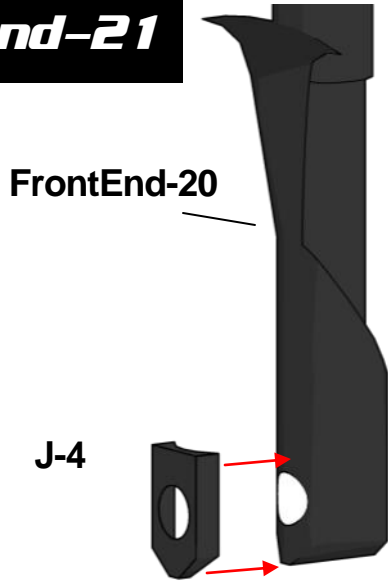
J-11



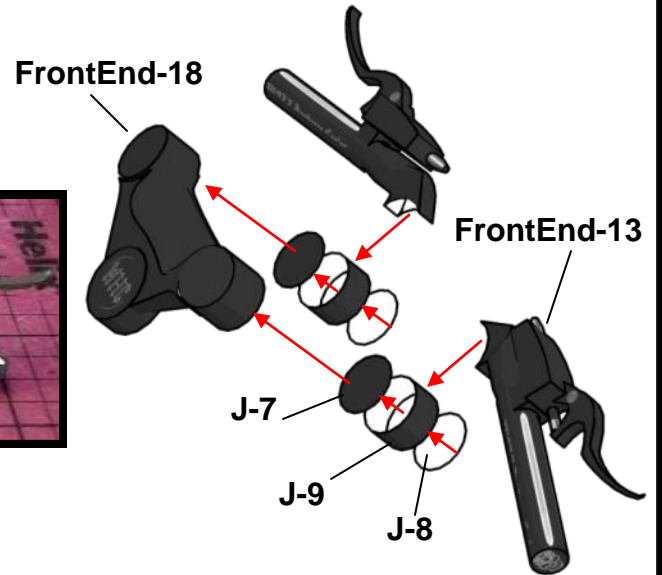
FrontEnd-19

# Front End Assembly

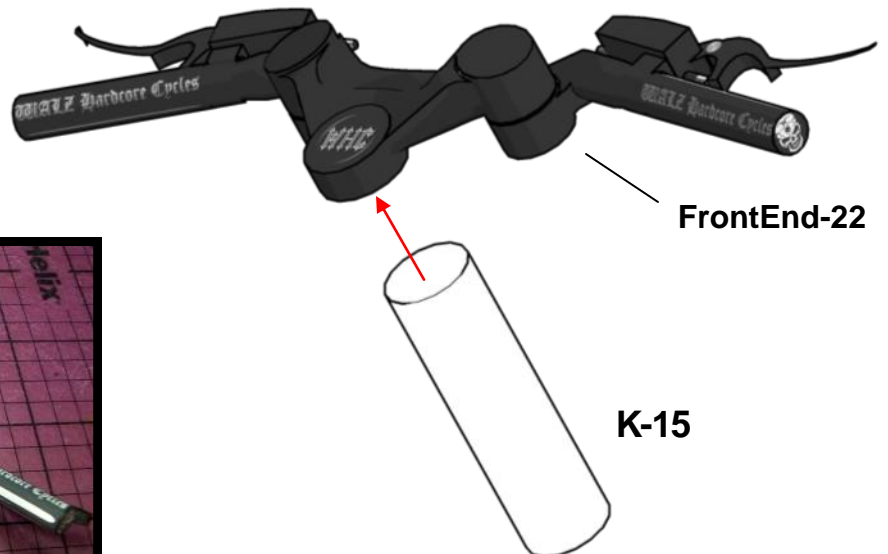
## FrontEnd-21



## FrontEnd-22

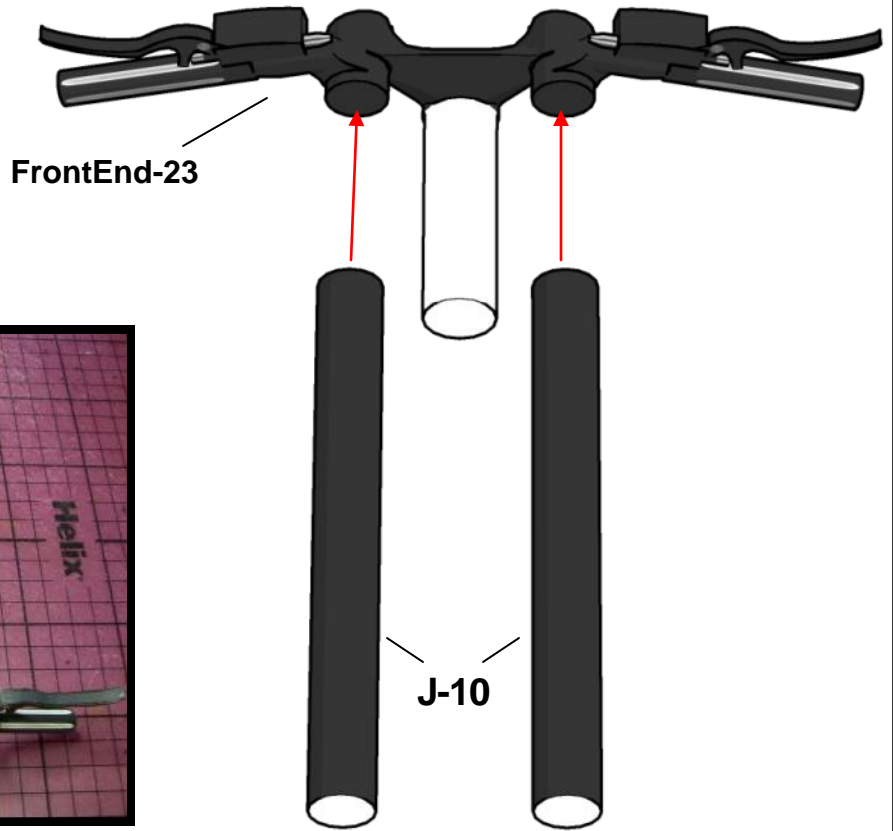


## FrontEnd-23

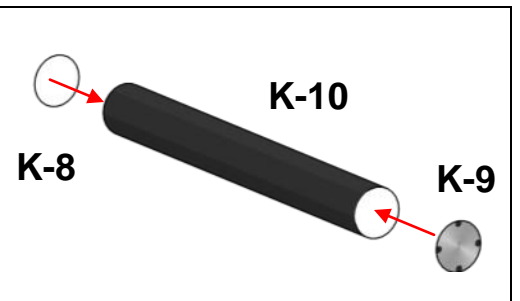
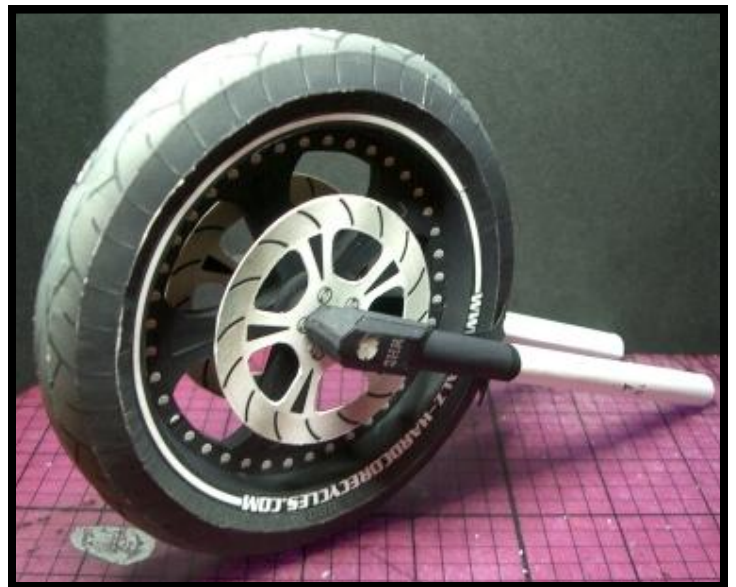
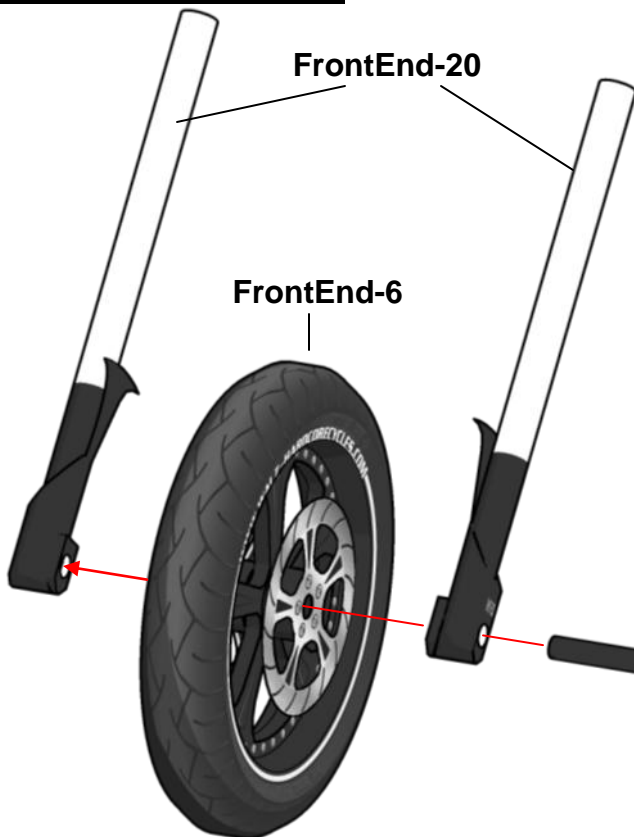


# Front End Assembly

## FrontEnd-24



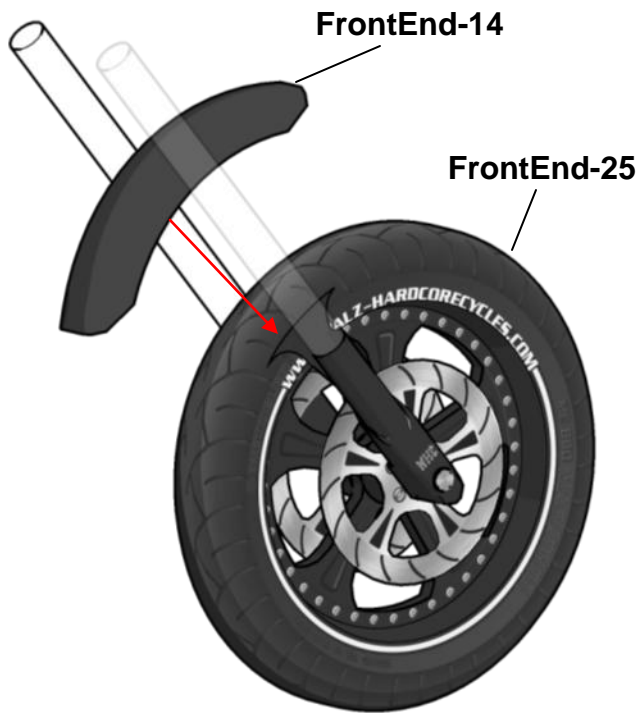
## FrontEnd-25



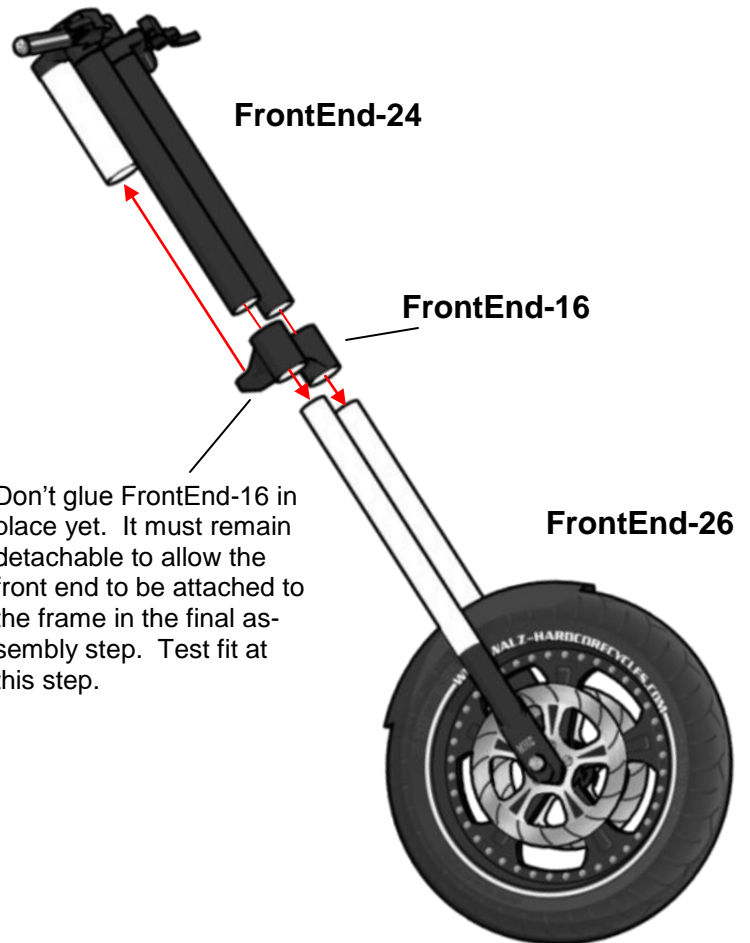


# Front End Assembly

## FrontEnd-26

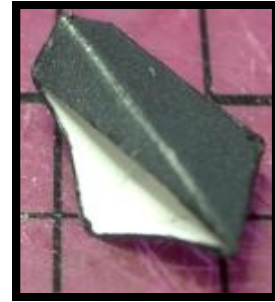
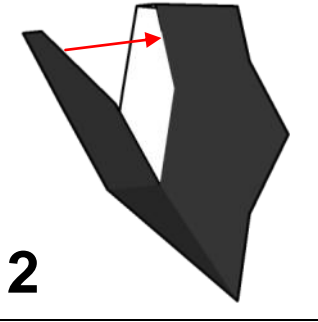
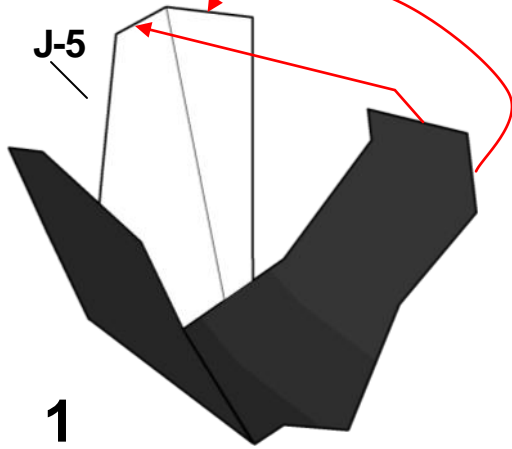


## FrontEnd-27

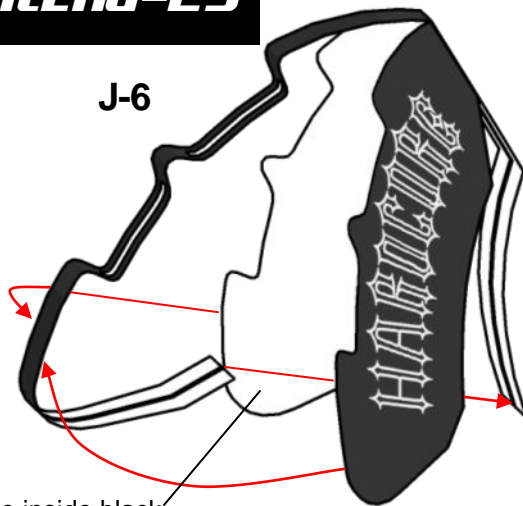


# Front End Assembly

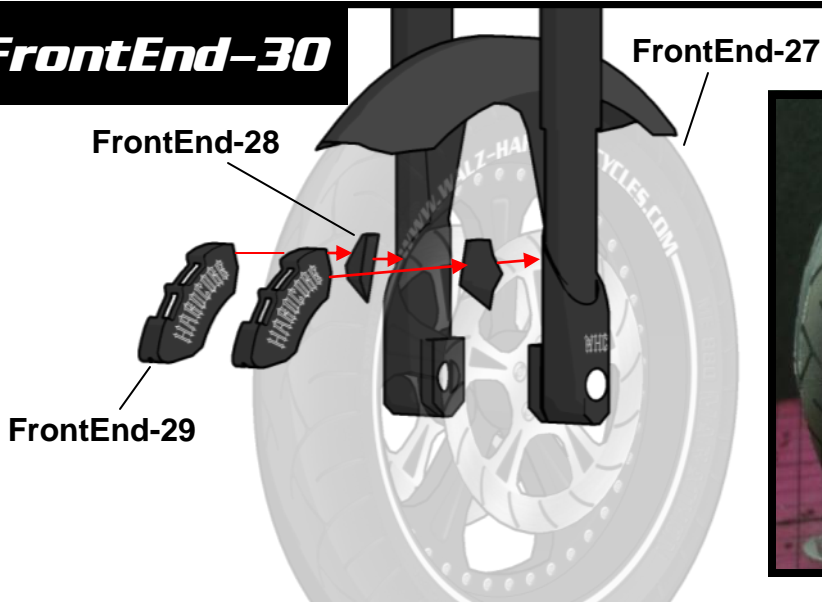
## FrontEnd-28



## FrontEnd-29

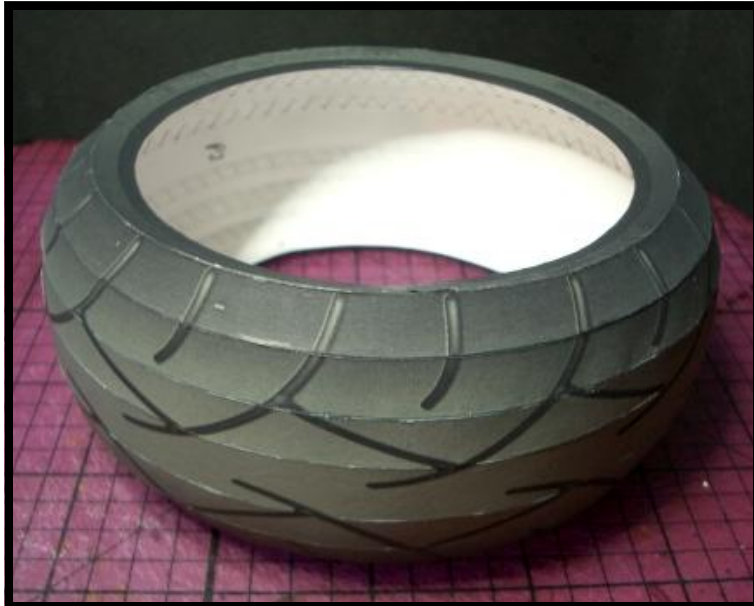
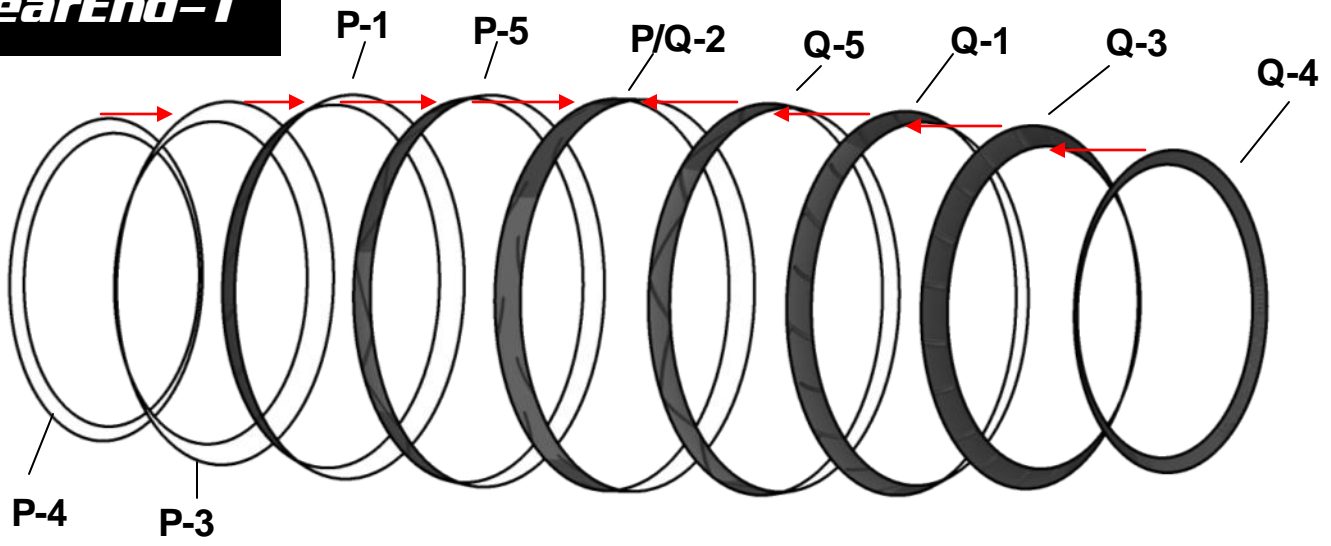


## FrontEnd-30

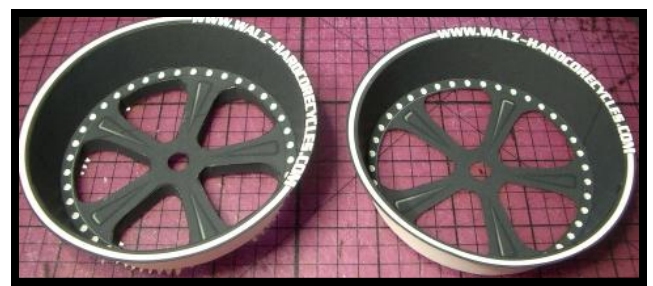
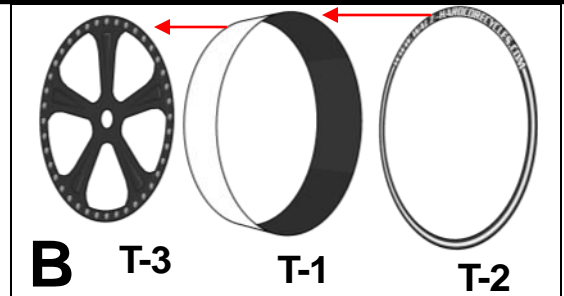
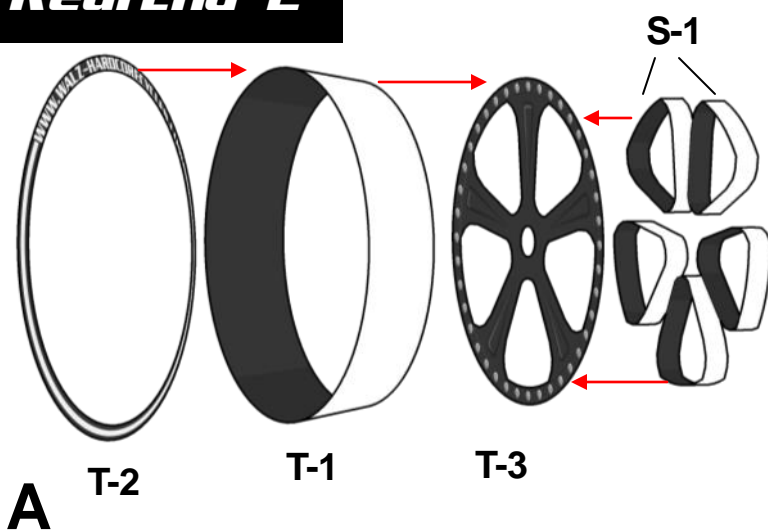


# Rear End Assembly

## RearEnd-1



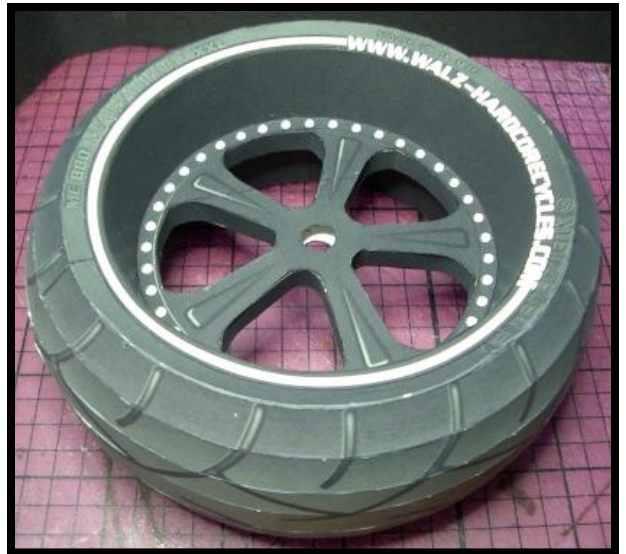
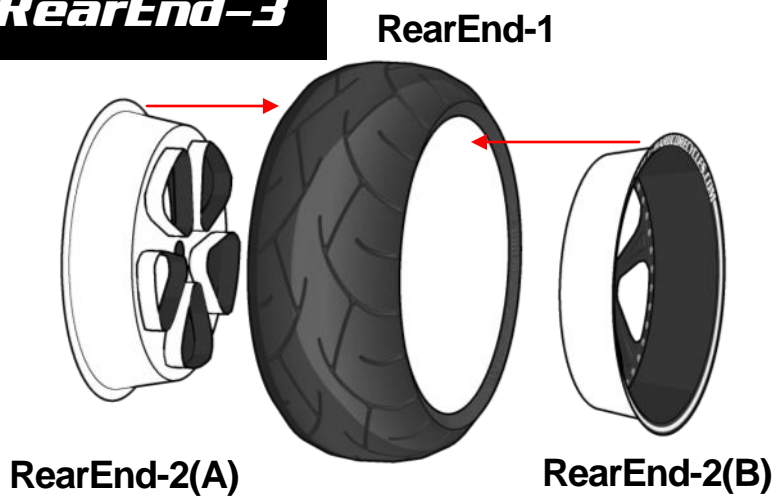
## RearEnd-2



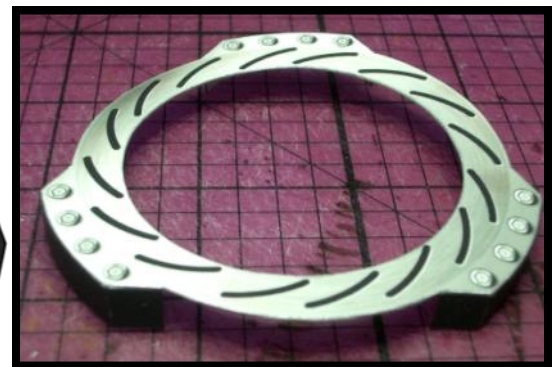
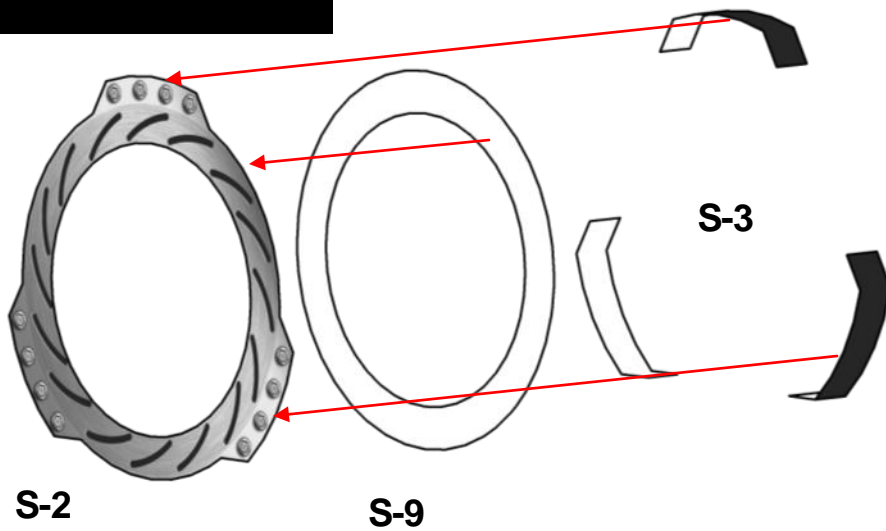


# Rear End Assembly

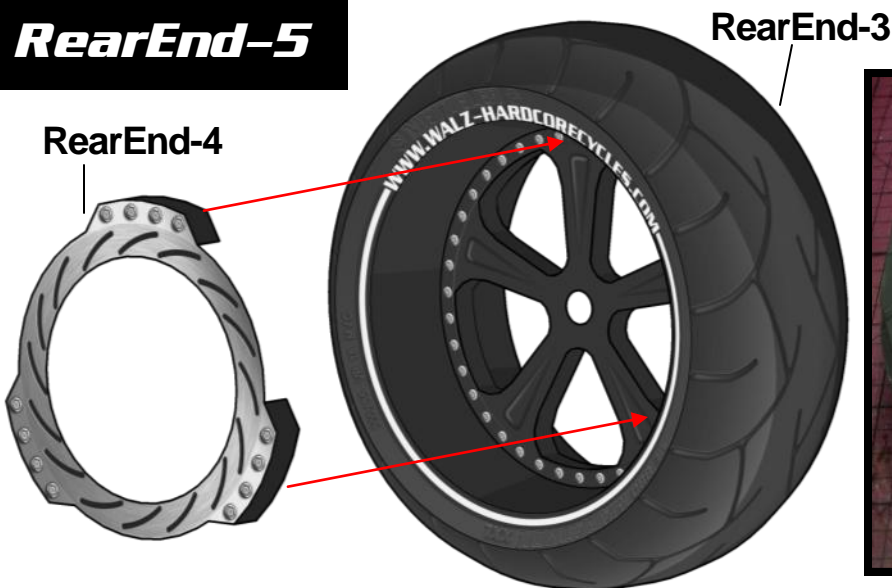
## RearEnd-3



## RearEnd-4

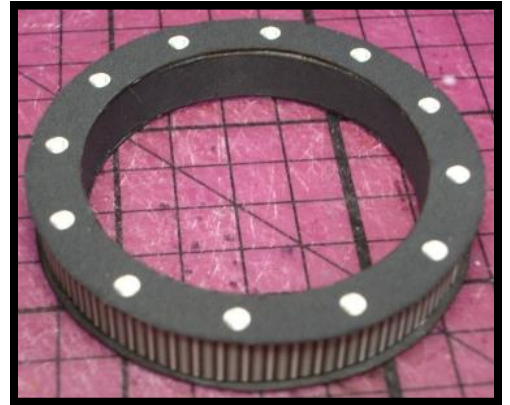
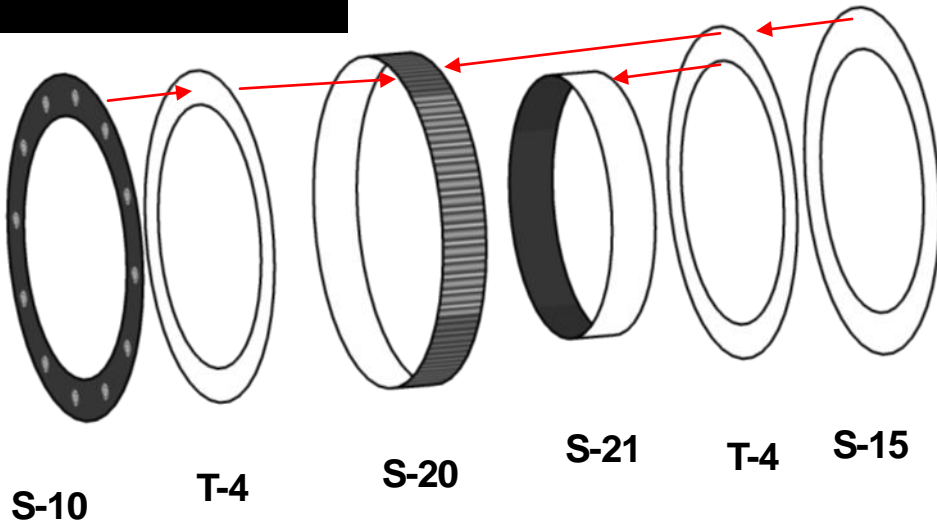


## RearEnd-5

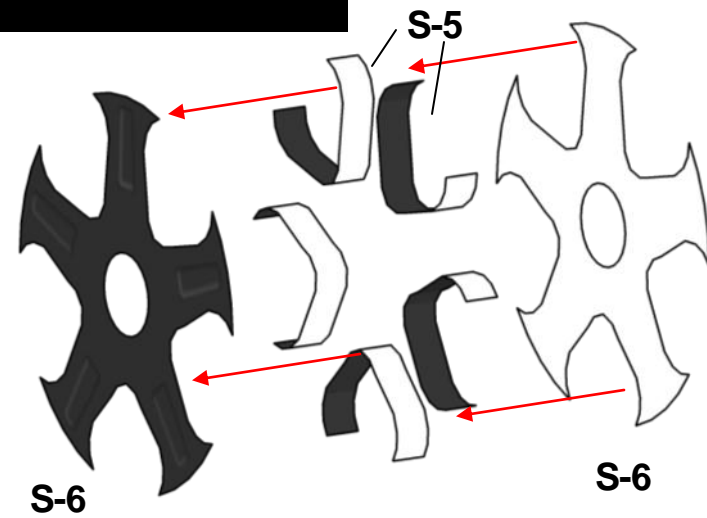


# Rear End Assembly

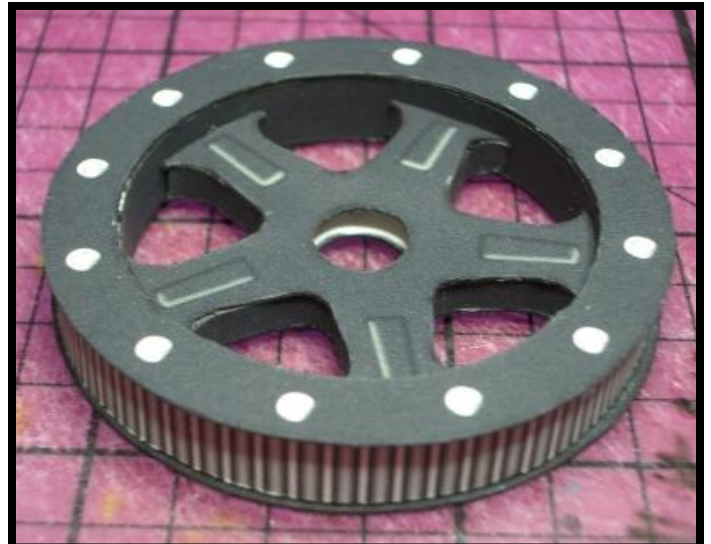
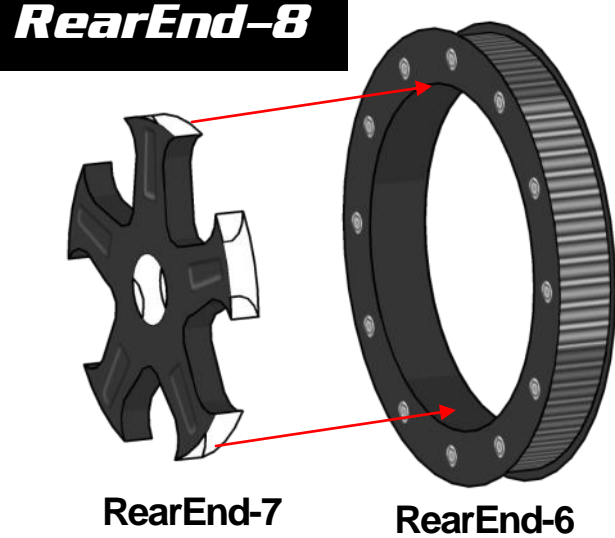
## RearEnd-6



## RearEnd-7



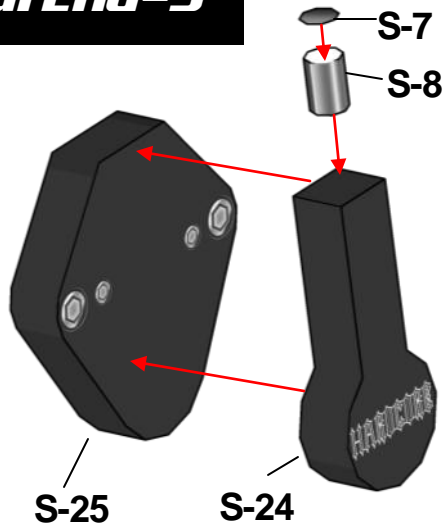
## RearEnd-8



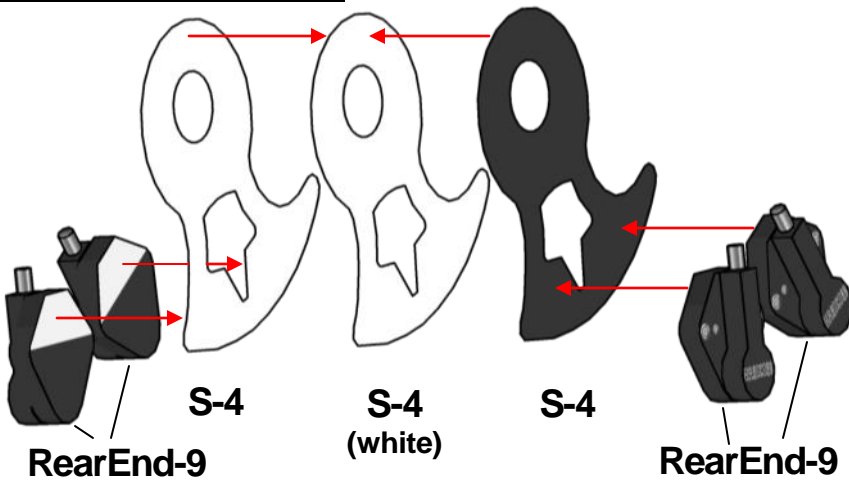


# Rear End Assembly

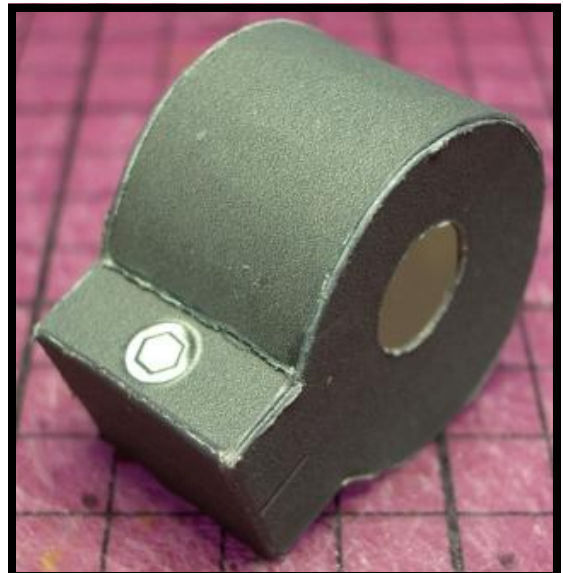
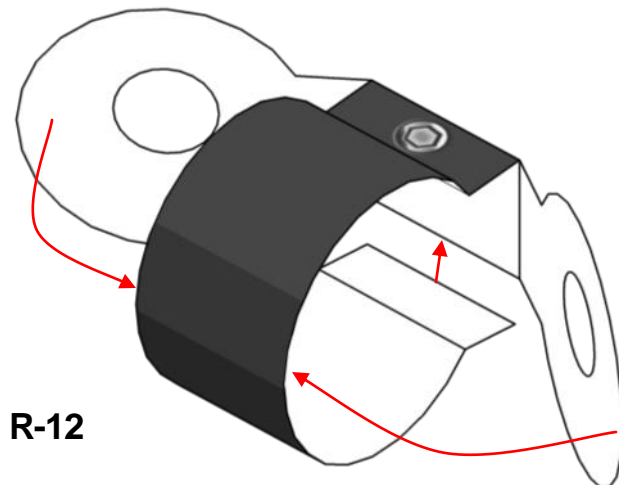
## RearEnd-9



## RearEnd-10



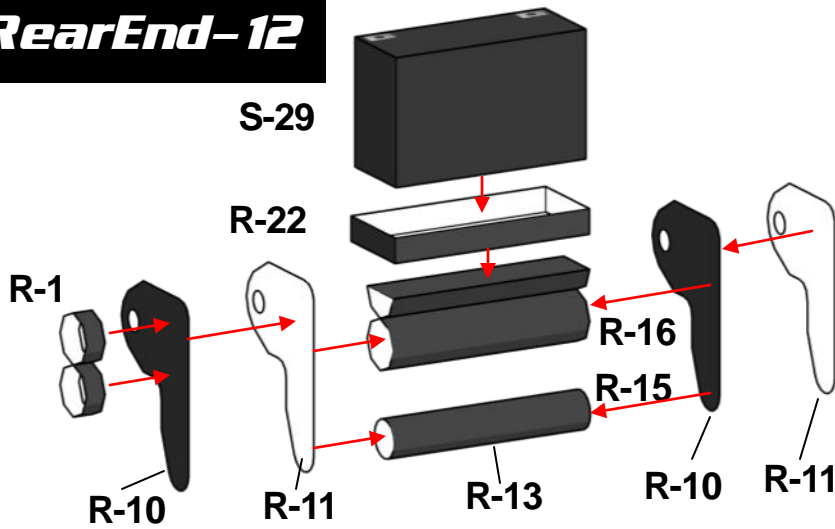
## RearEnd-11





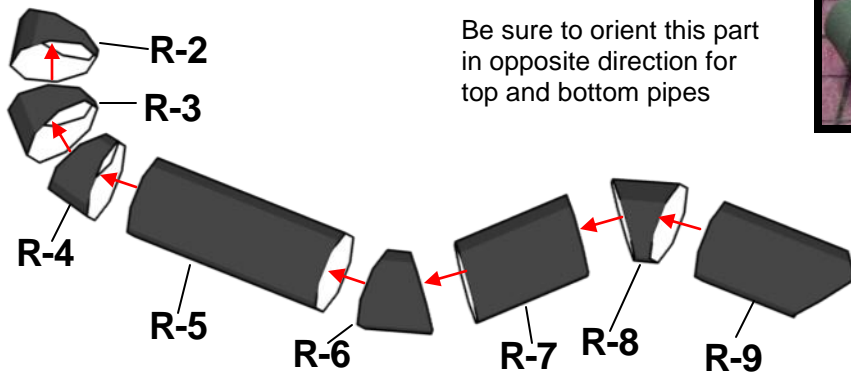
# Rear End Assembly

## RearEnd-12



\* R-1 parts not shown in picture

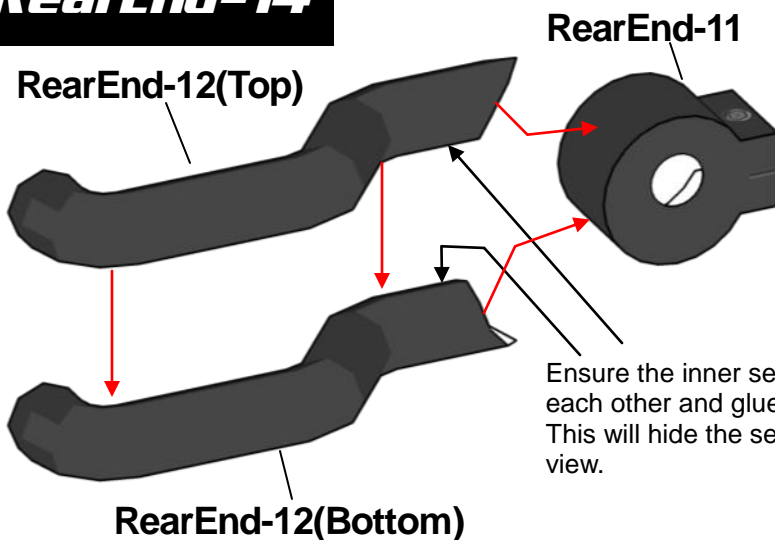
## RearEnd-13



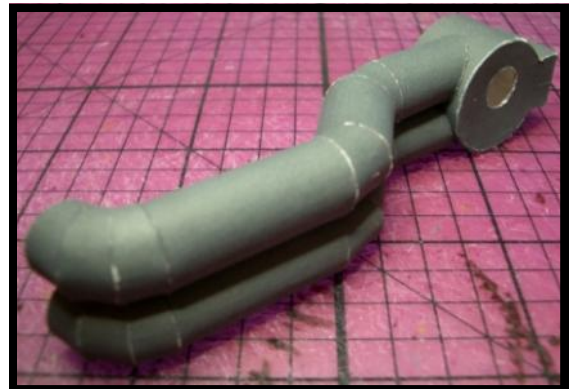
Be sure to orient this part in opposite direction for top and bottom pipes



## RearEnd-14

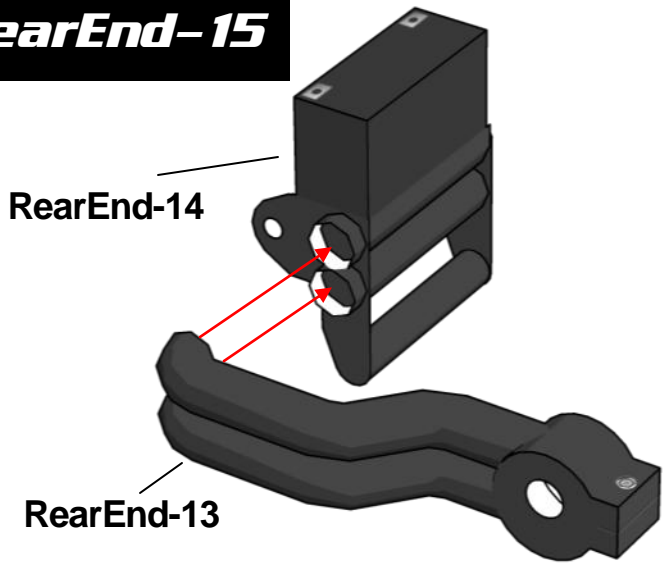


Ensure the inner seams face each other and glue together. This will hide the seam from view.

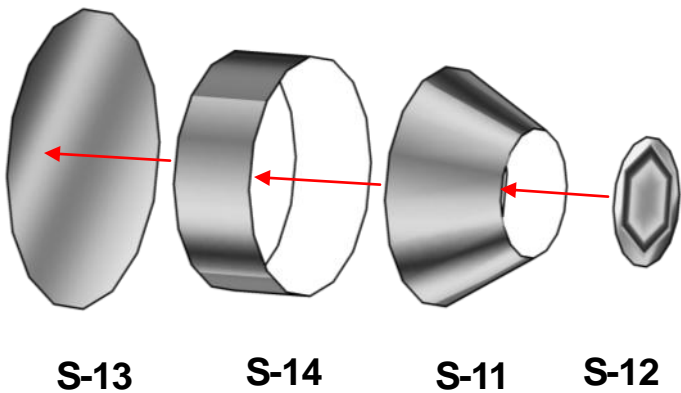


# Rear End Assembly

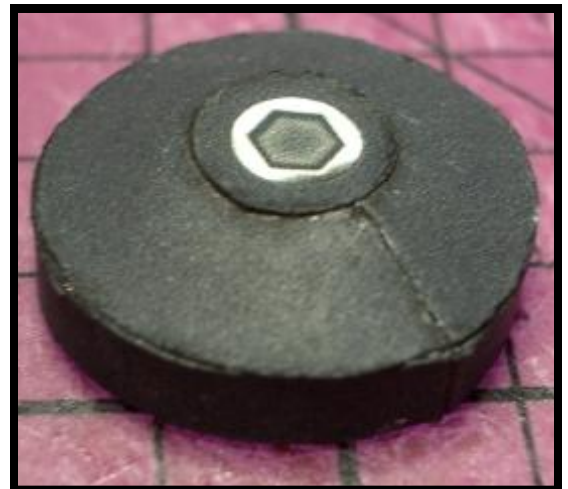
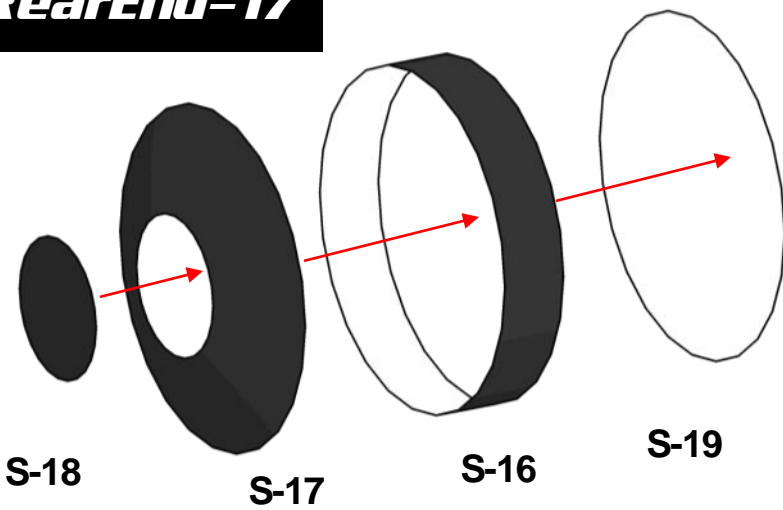
## RearEnd-15



## RearEnd-16

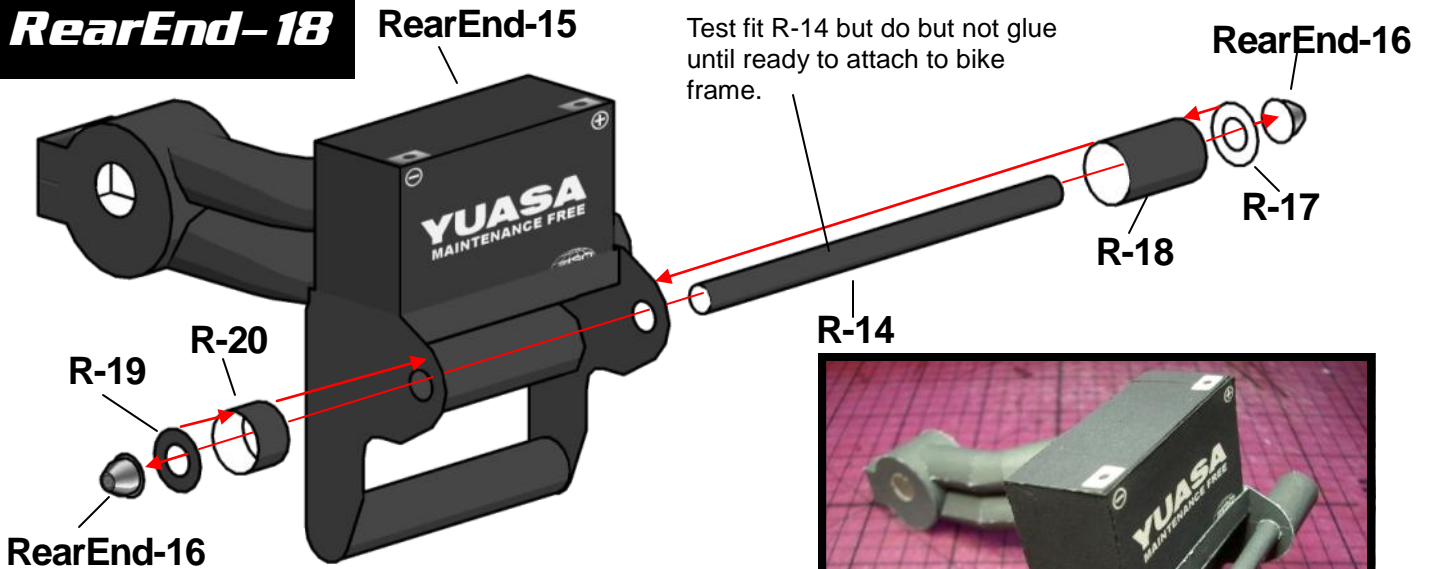


## RearEnd-17



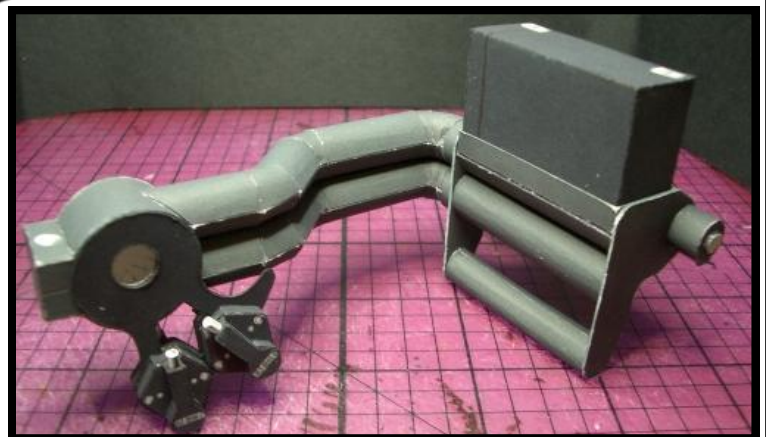
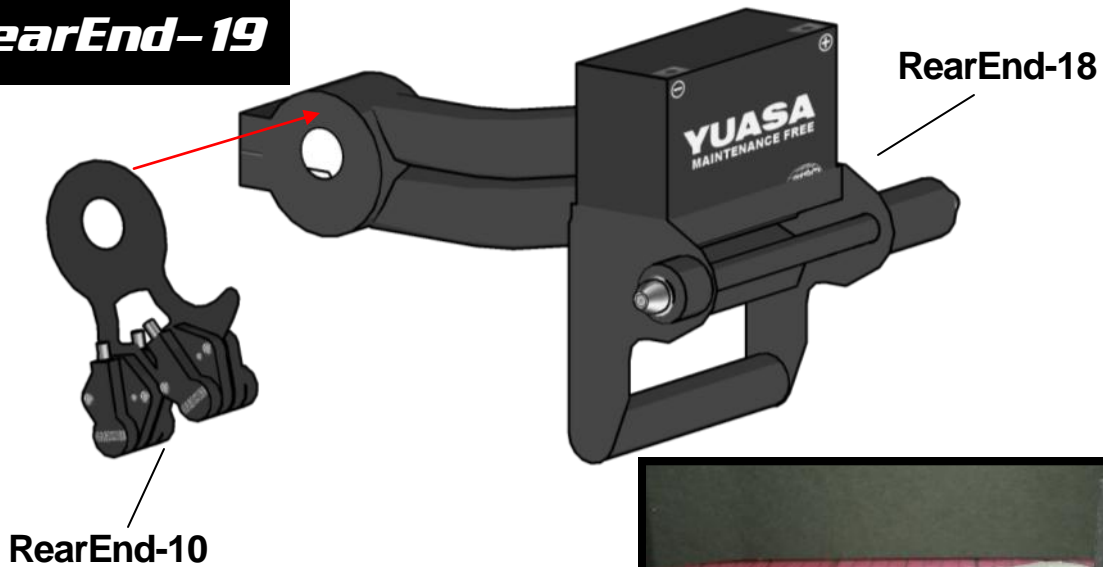
# Rear End Assembly

## RearEnd-18



Do not glue the RearEnd-16 parts to the R-14 until the final bike assembly.

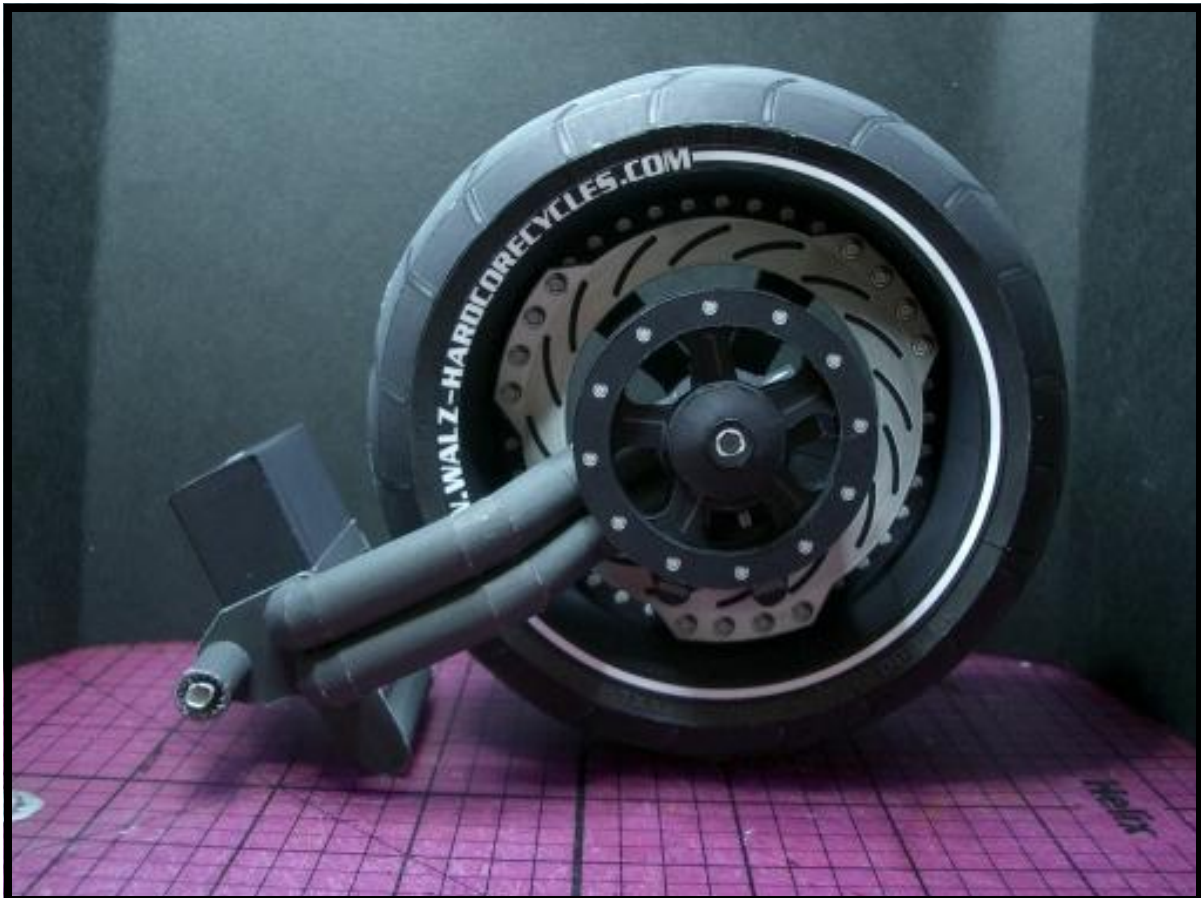
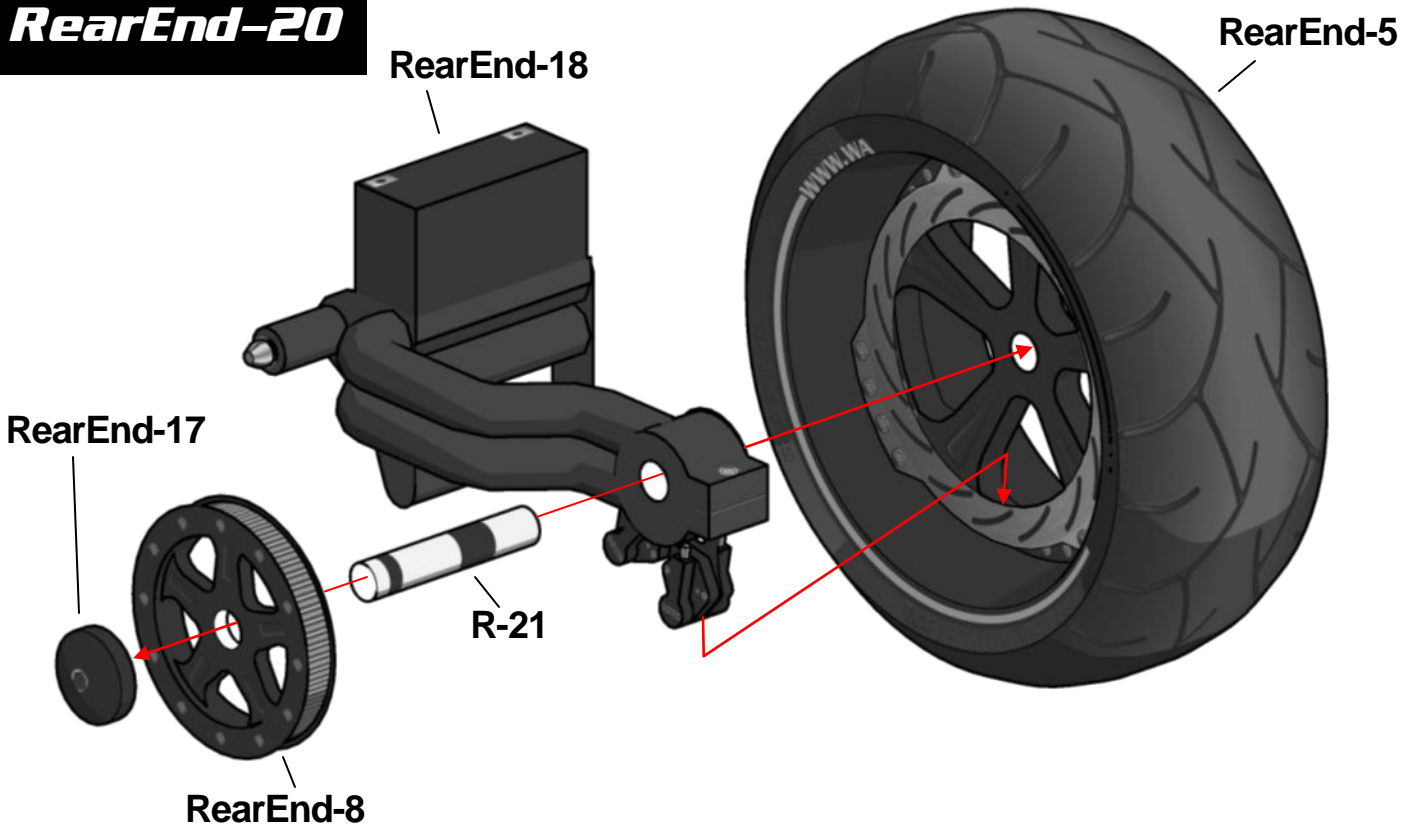
## RearEnd-19





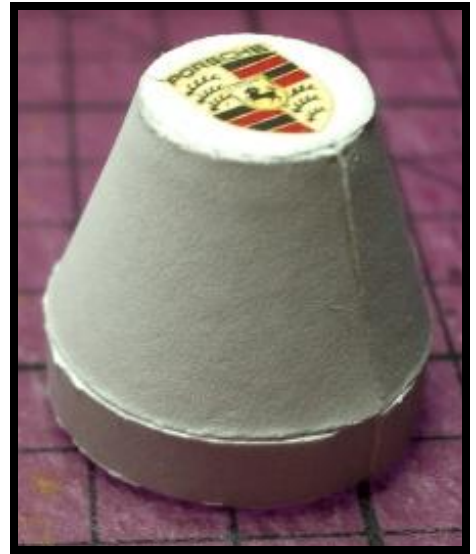
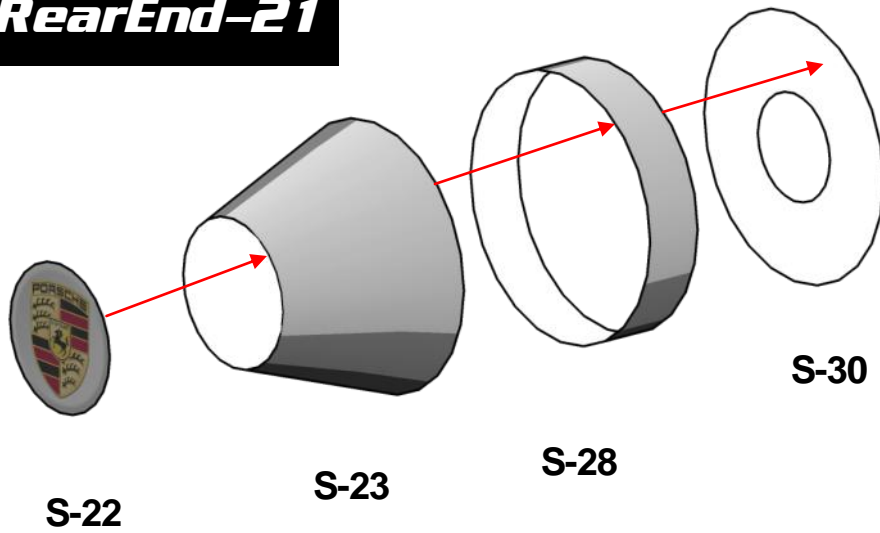
# Rear End Assembly

**RearEnd-20**

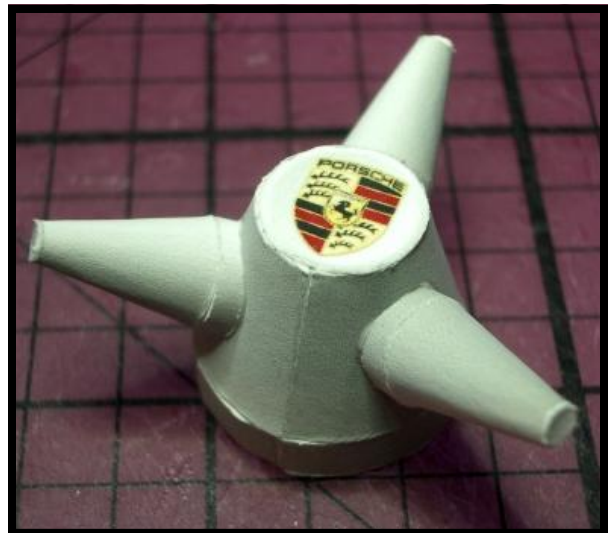
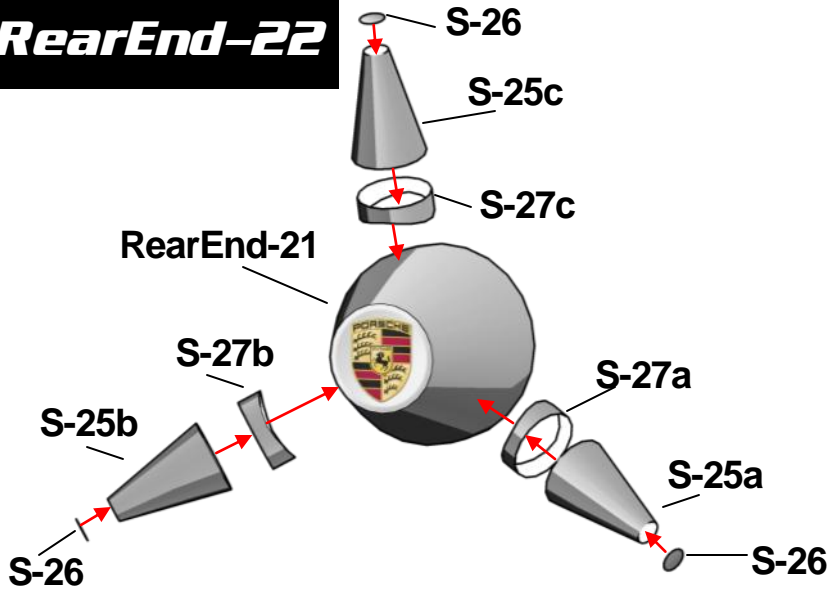


# Rear End Assembly

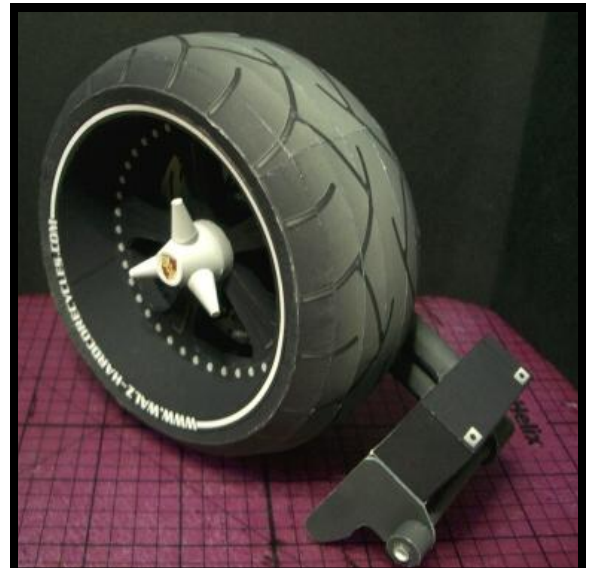
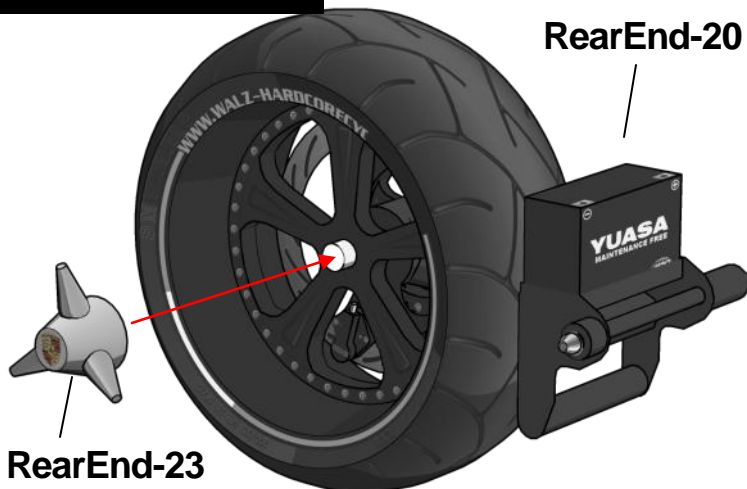
## RearEnd-21



## RearEnd-22



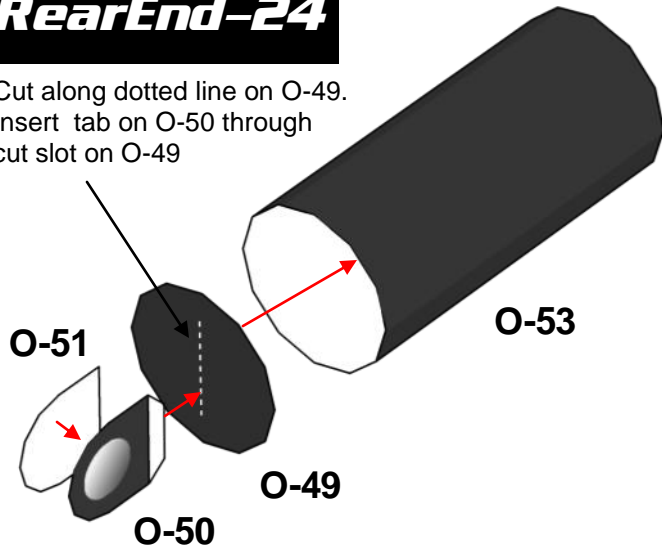
## RearEnd-23



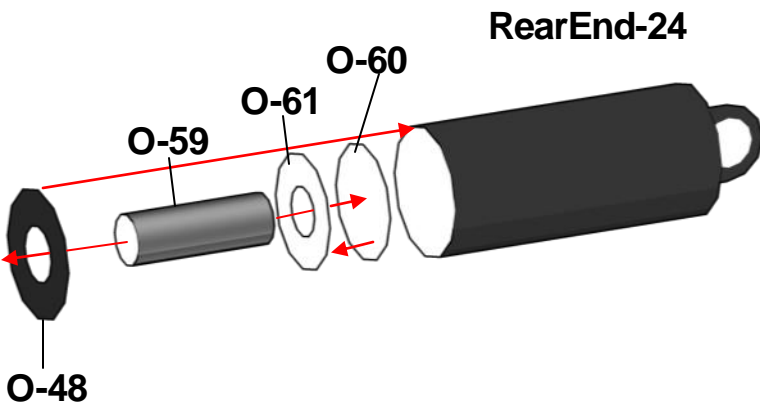
# Rear End Assembly

## RearEnd-24

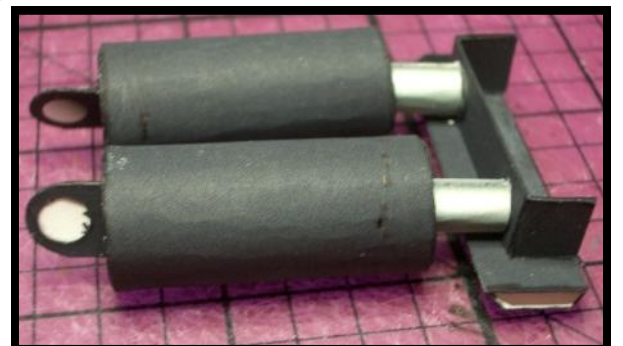
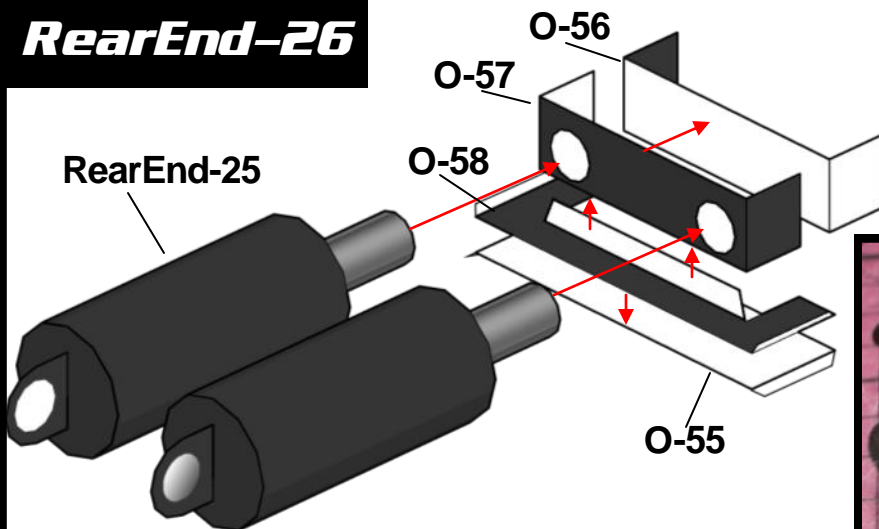
Cut along dotted line on O-49.  
Insert tab on O-50 through  
cut slot on O-49



## RearEnd-25



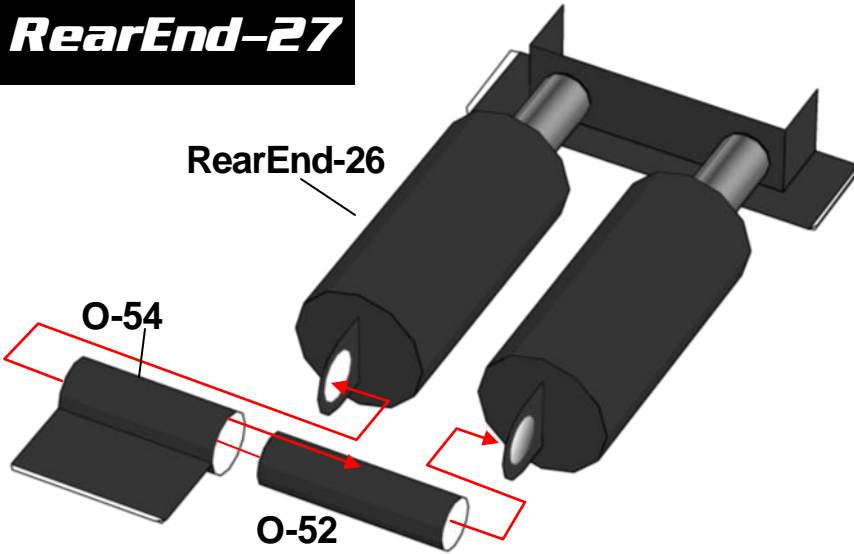
## RearEnd-26



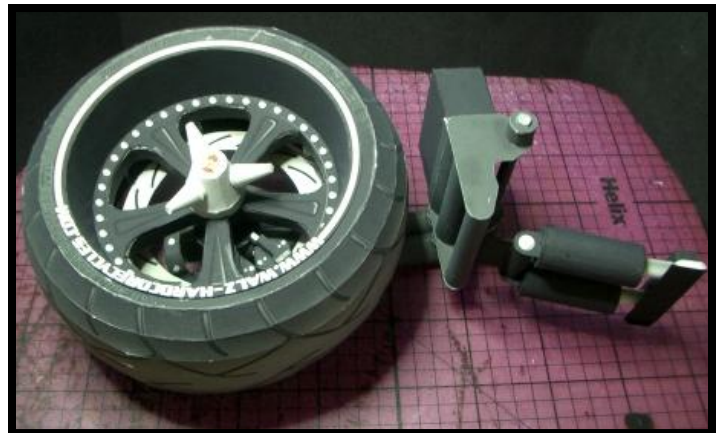
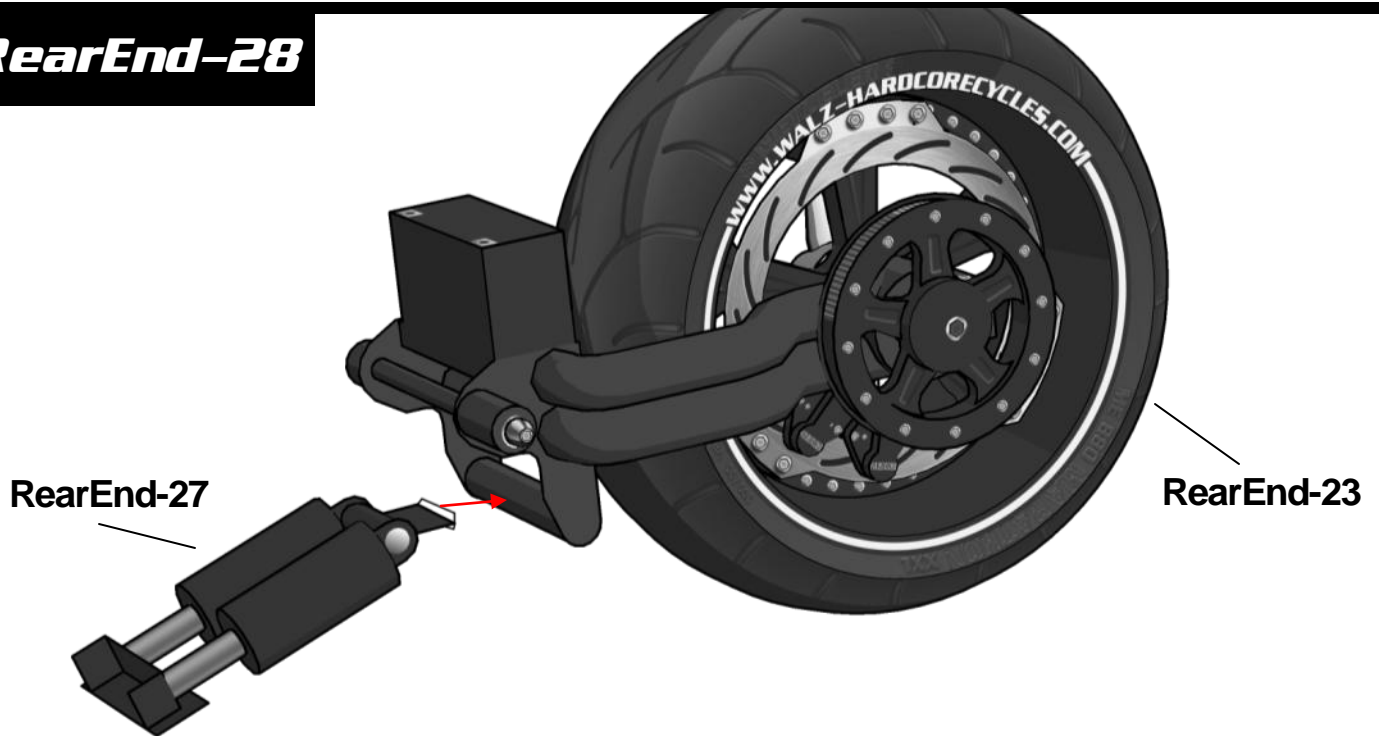


# Rear End Assembly

## RearEnd-27

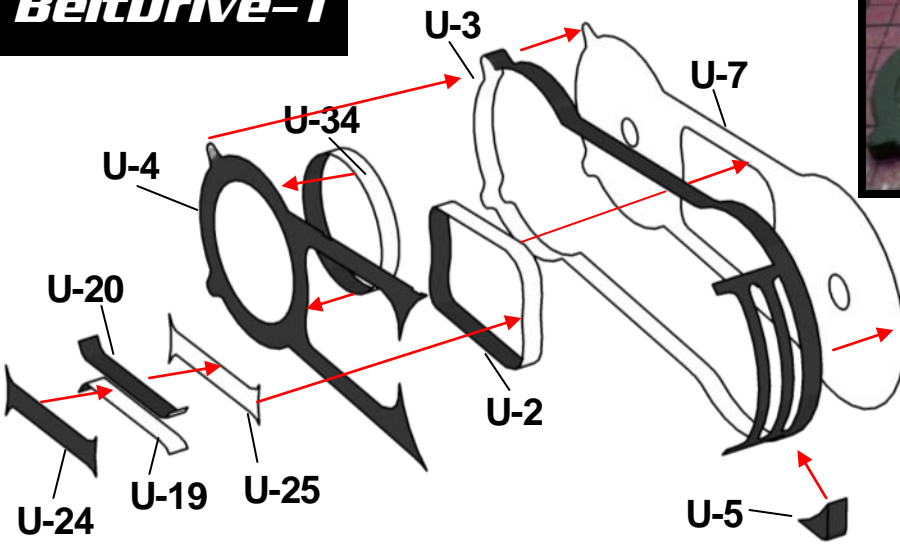


## RearEnd-28

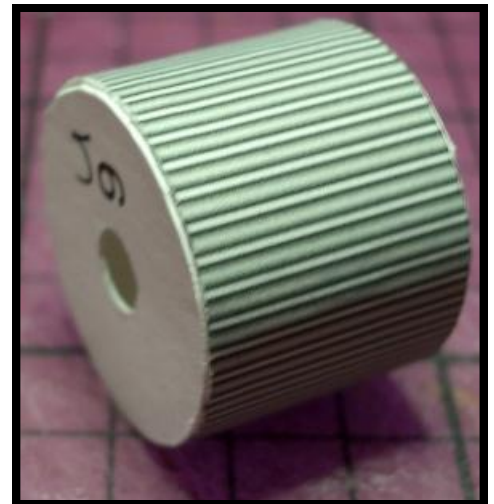
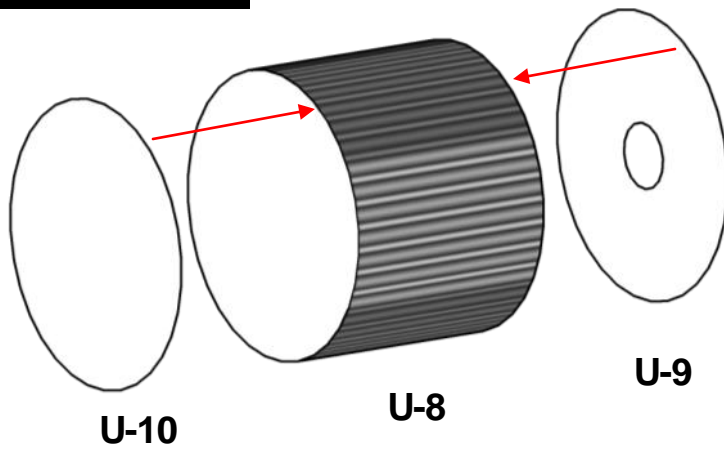


# Belt Drive Assembly

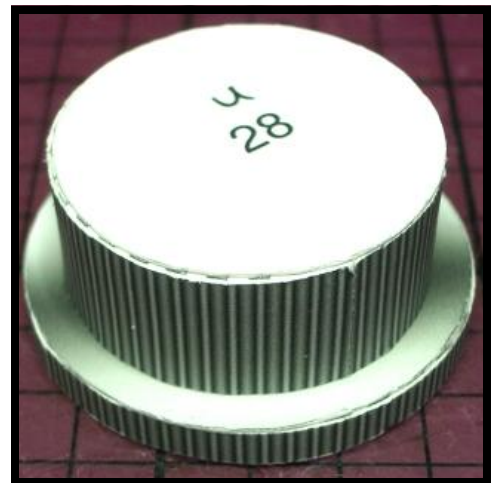
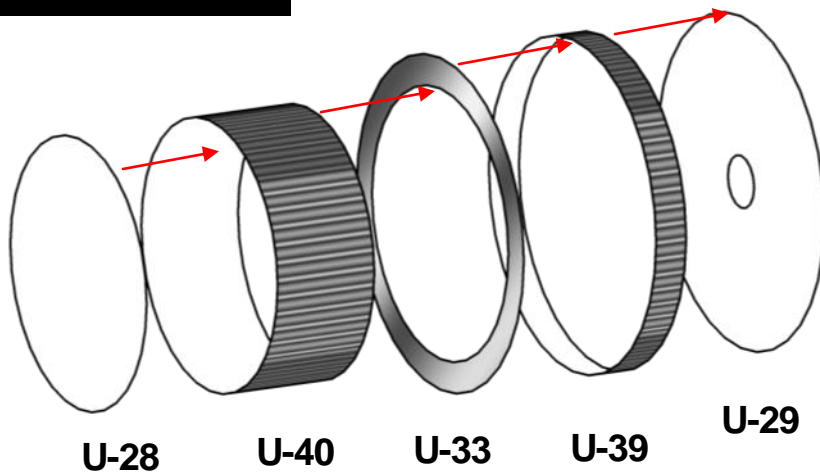
## BeltDrive-1



## BeltDrive-2

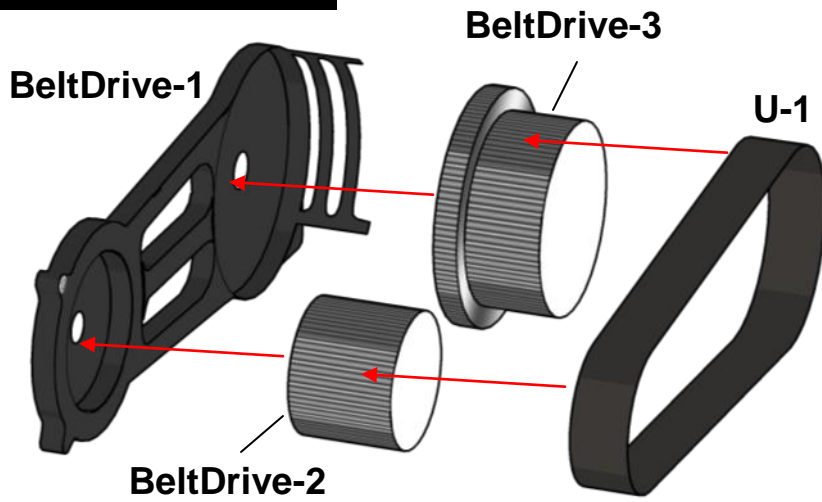


## BeltDrive-3

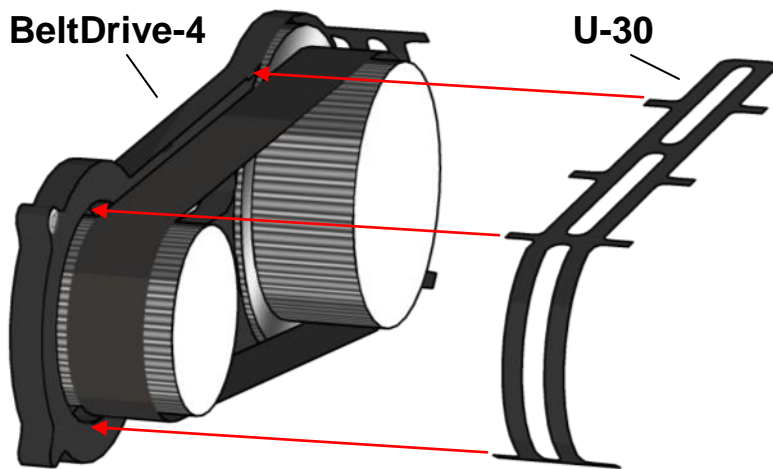


# Belt Drive Assembly

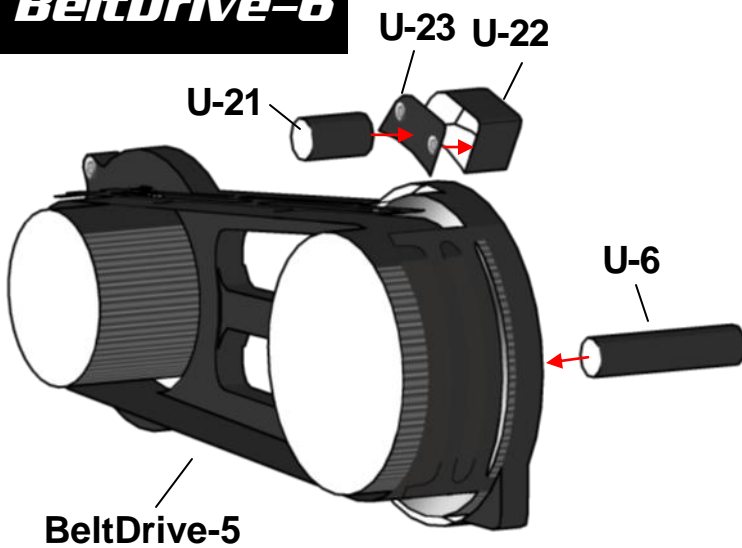
## BeltDrive-4



## BeltDrive-5



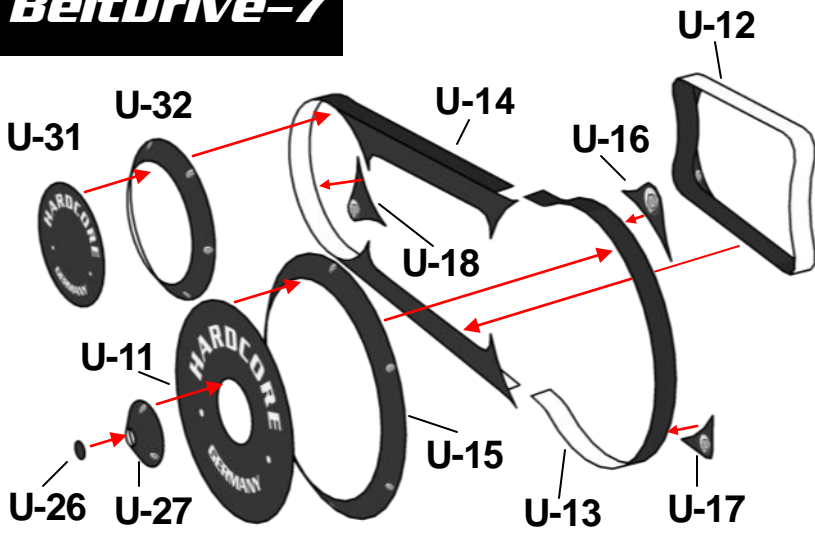
## BeltDrive-6



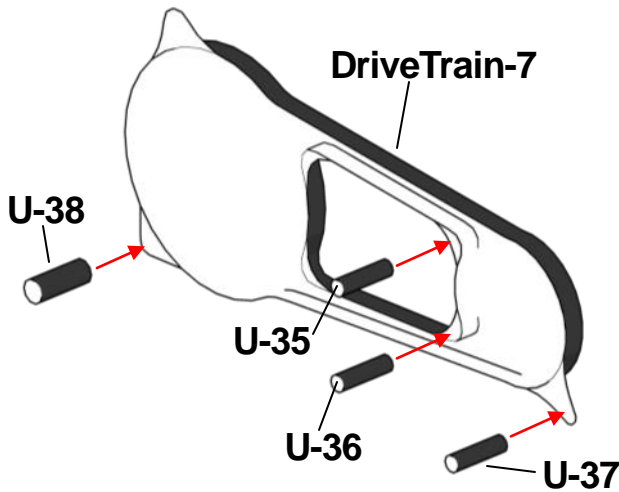


# Belt Drive Assembly

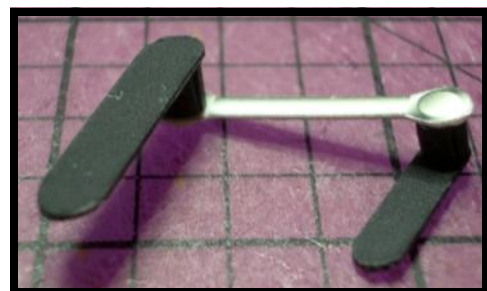
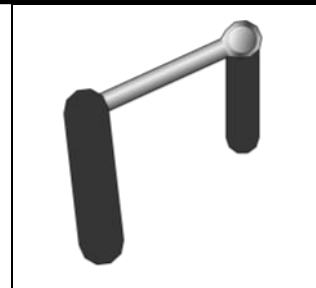
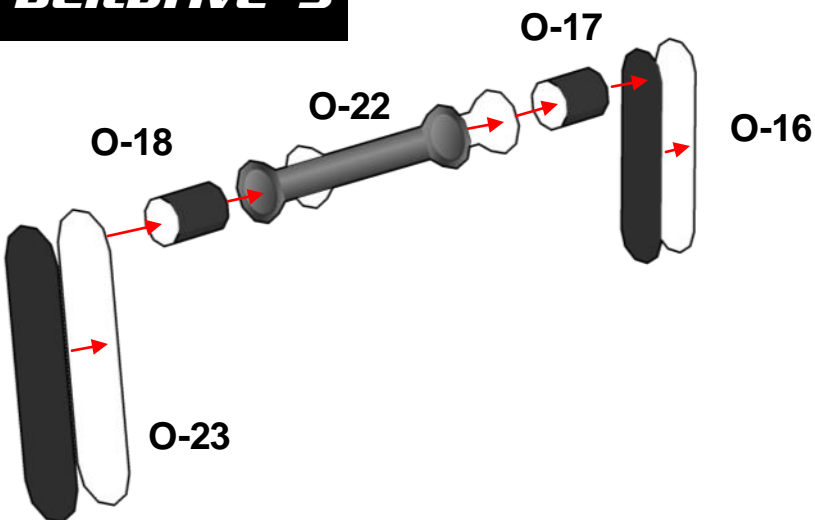
## BeltDrive-7



## BeltDrive-8

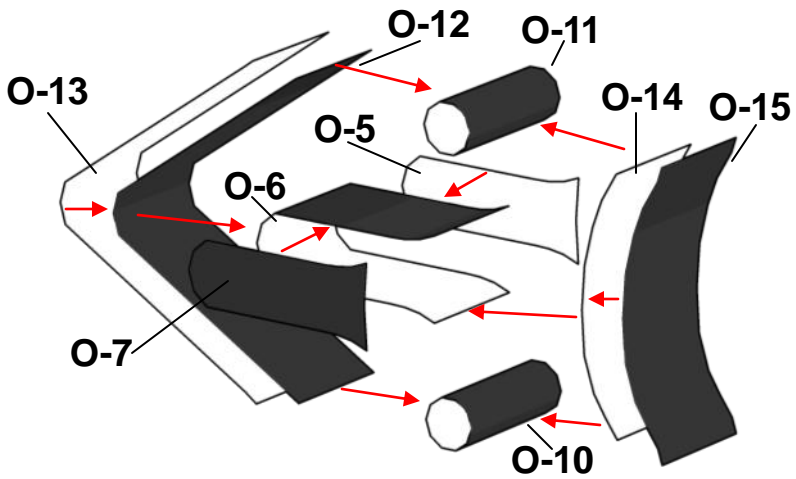


## BeltDrive-9

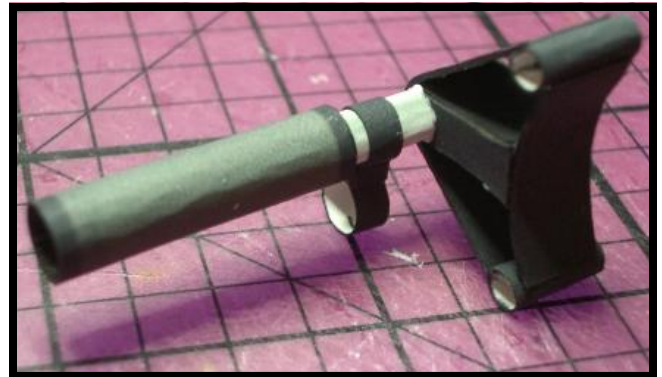
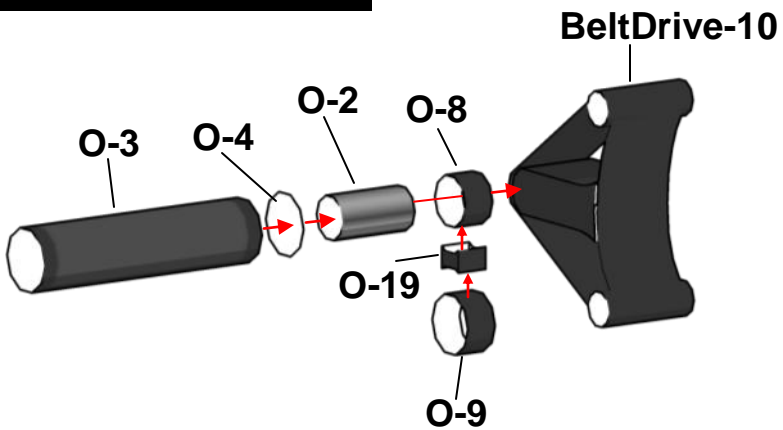


# Belt Drive Assembly

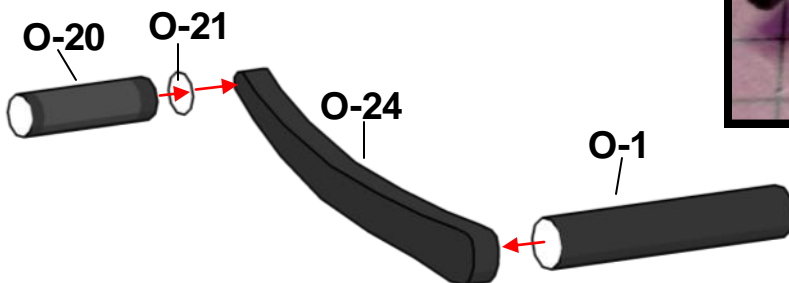
## BeltDrive-10



## BeltDrive-11

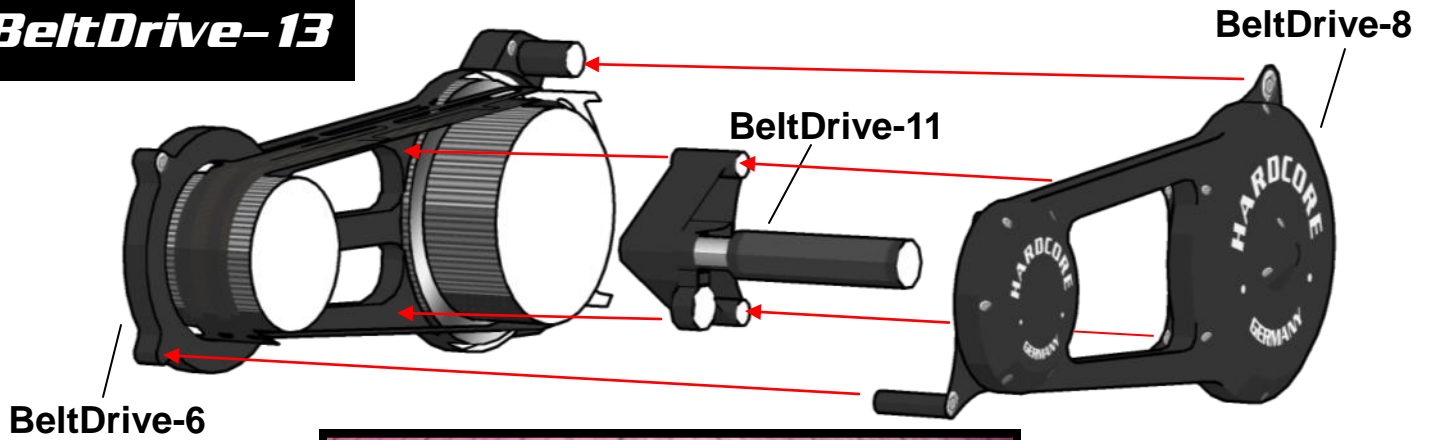


## BeltDrive-12

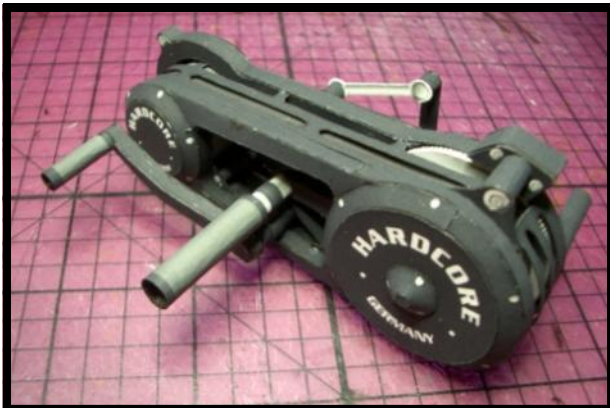
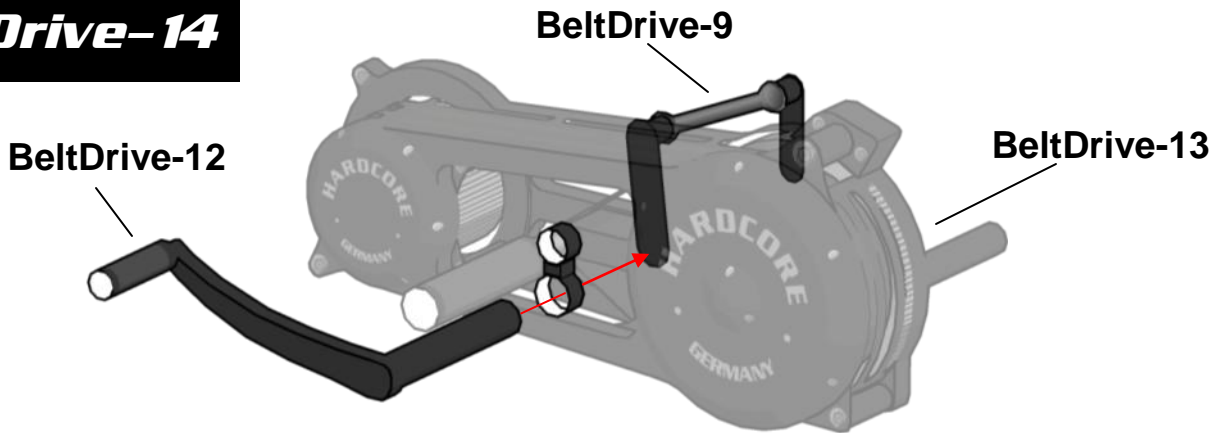


# Belt Drive Assembly

## BeltDrive-13



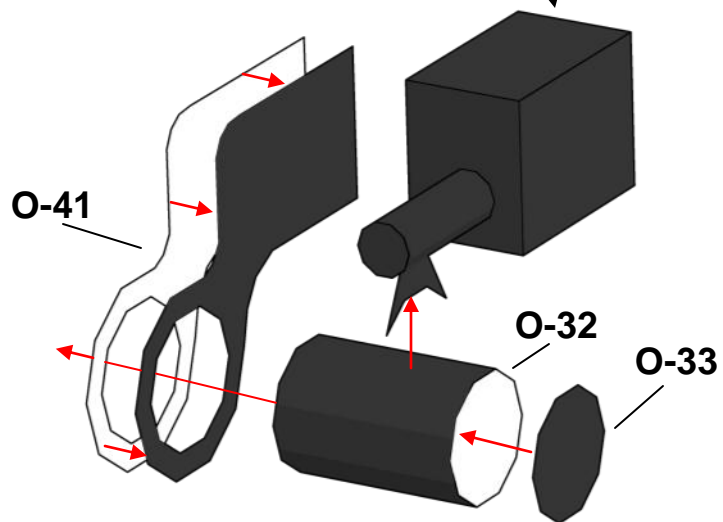
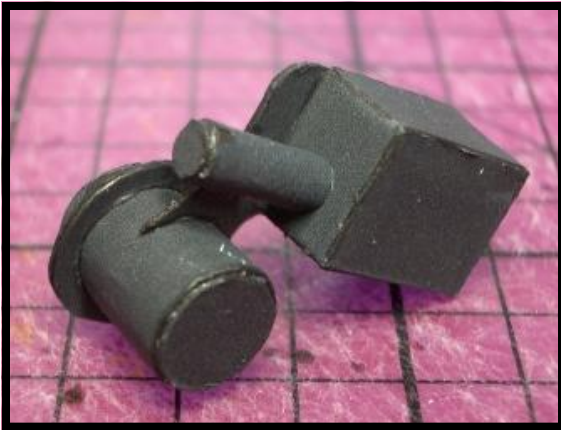
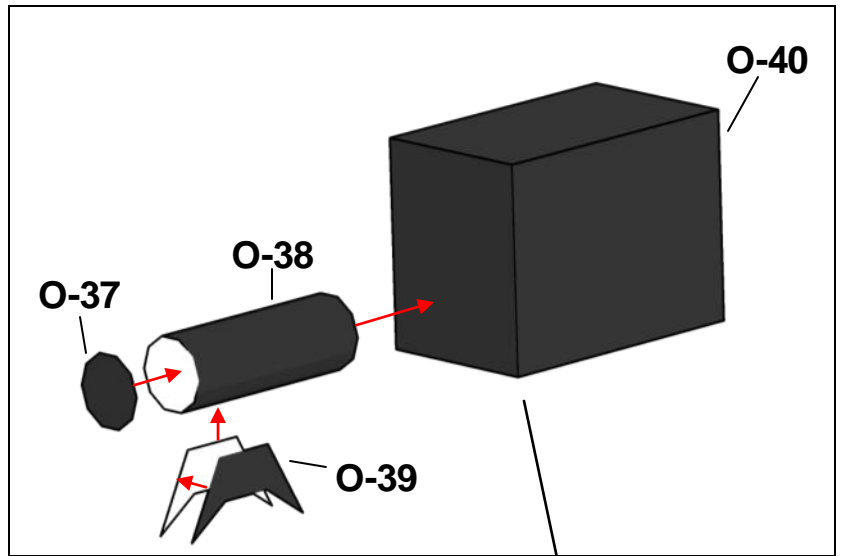
## BeltDrive-14



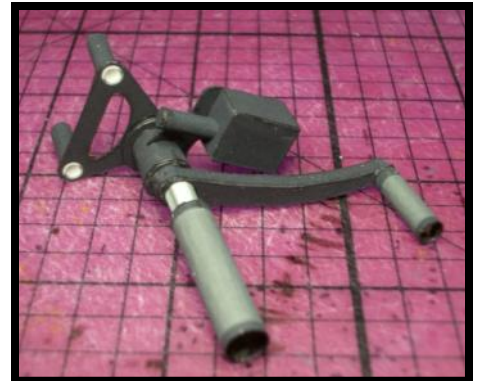
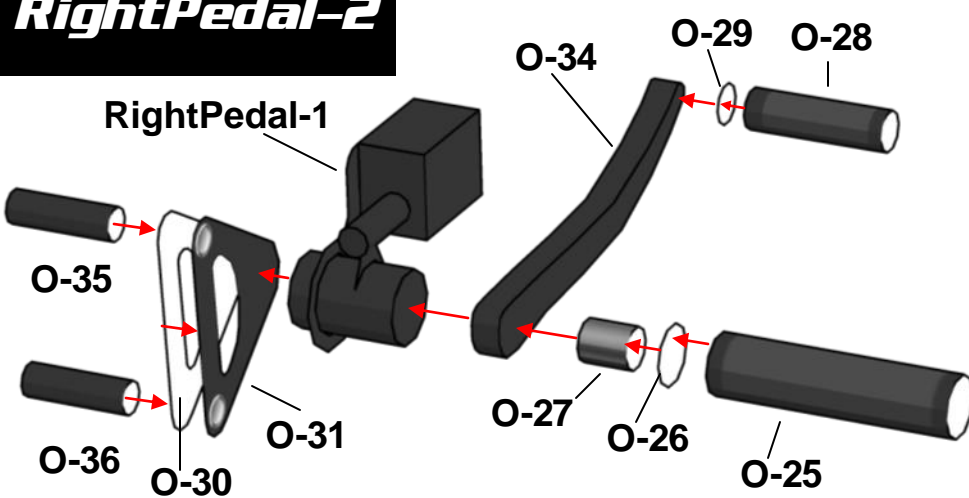


# Right Pedal Assembly

## RightPedal-1

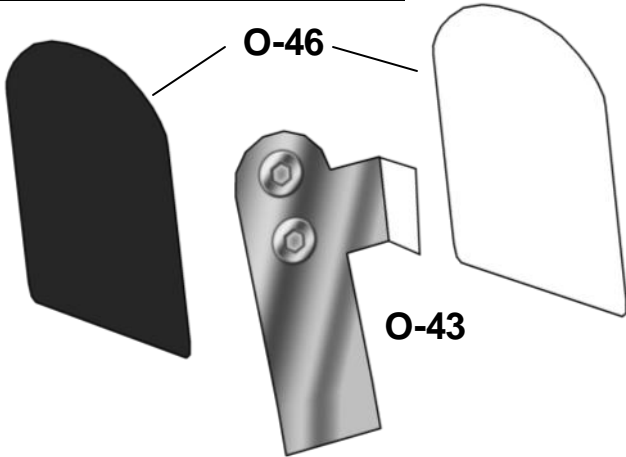


## RightPedal-2

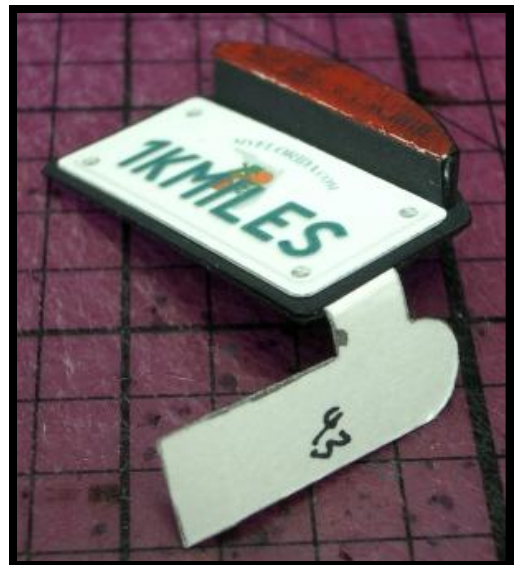
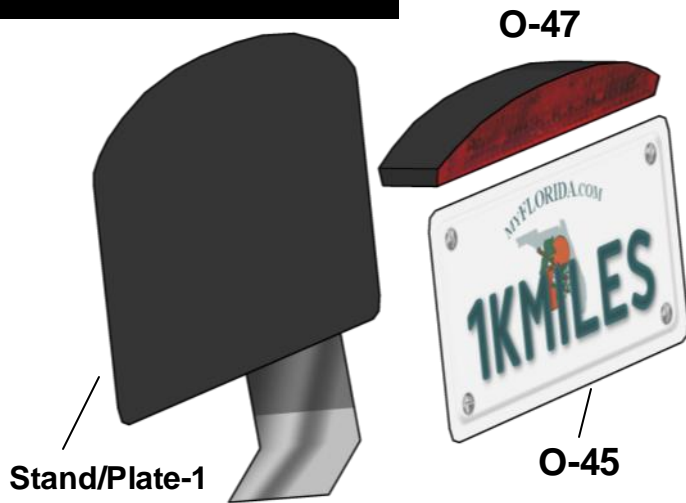


# Kickstand & License Plate Assembly

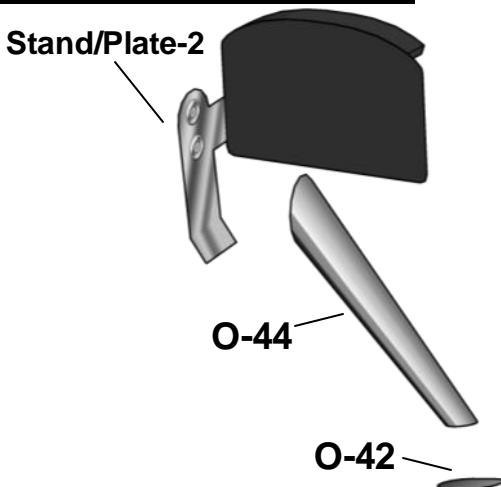
## Stand/Plate-1



## Stand/Plate-2

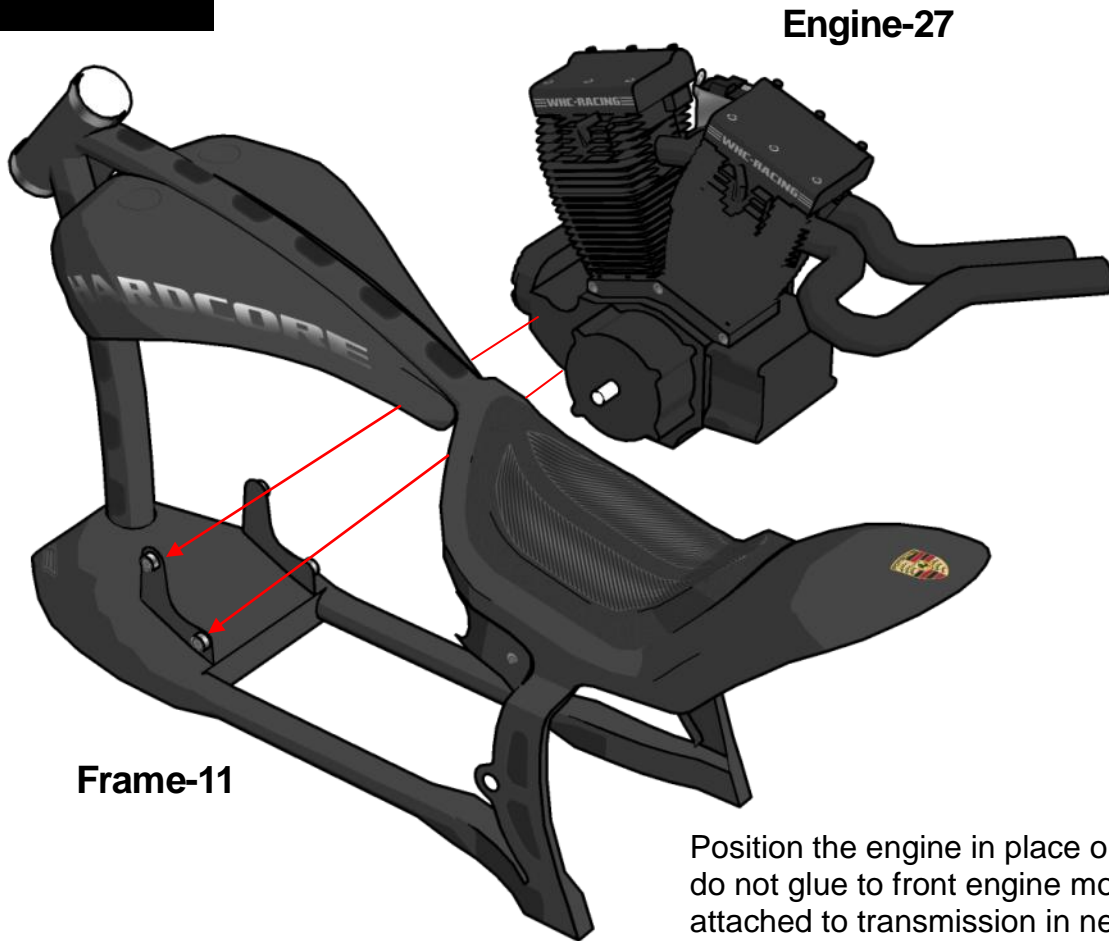


## Stand/Plate-3



# Final Assembly

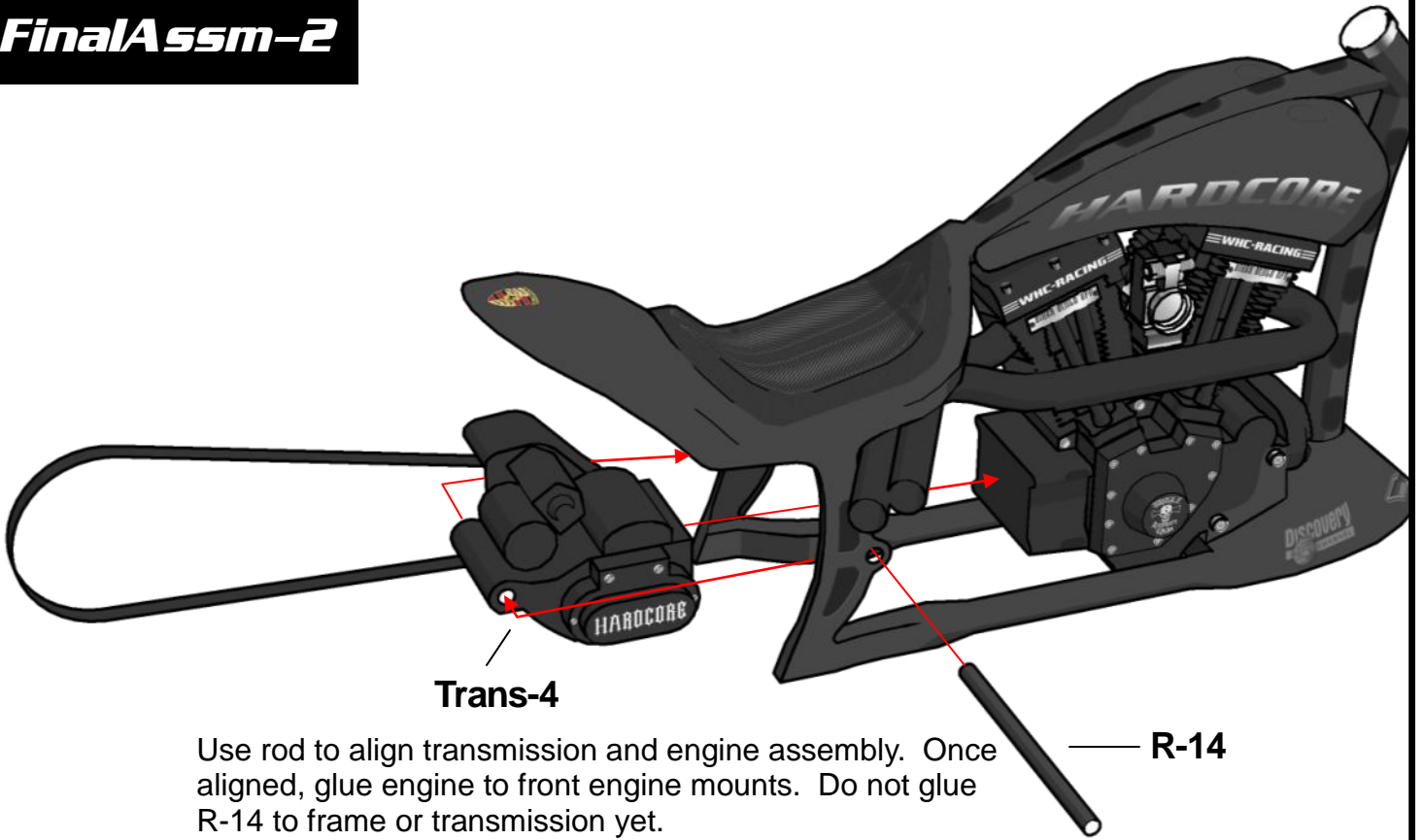
## FinalAssm-1





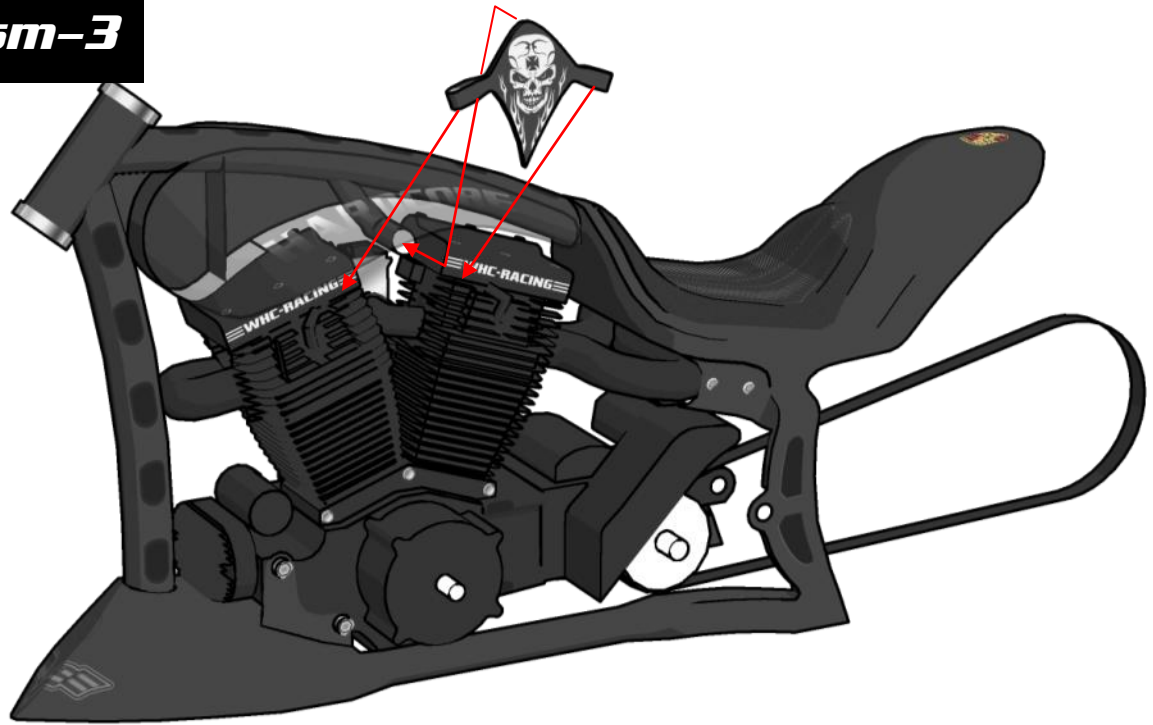
# Final Assembly

## FinalAssm-2



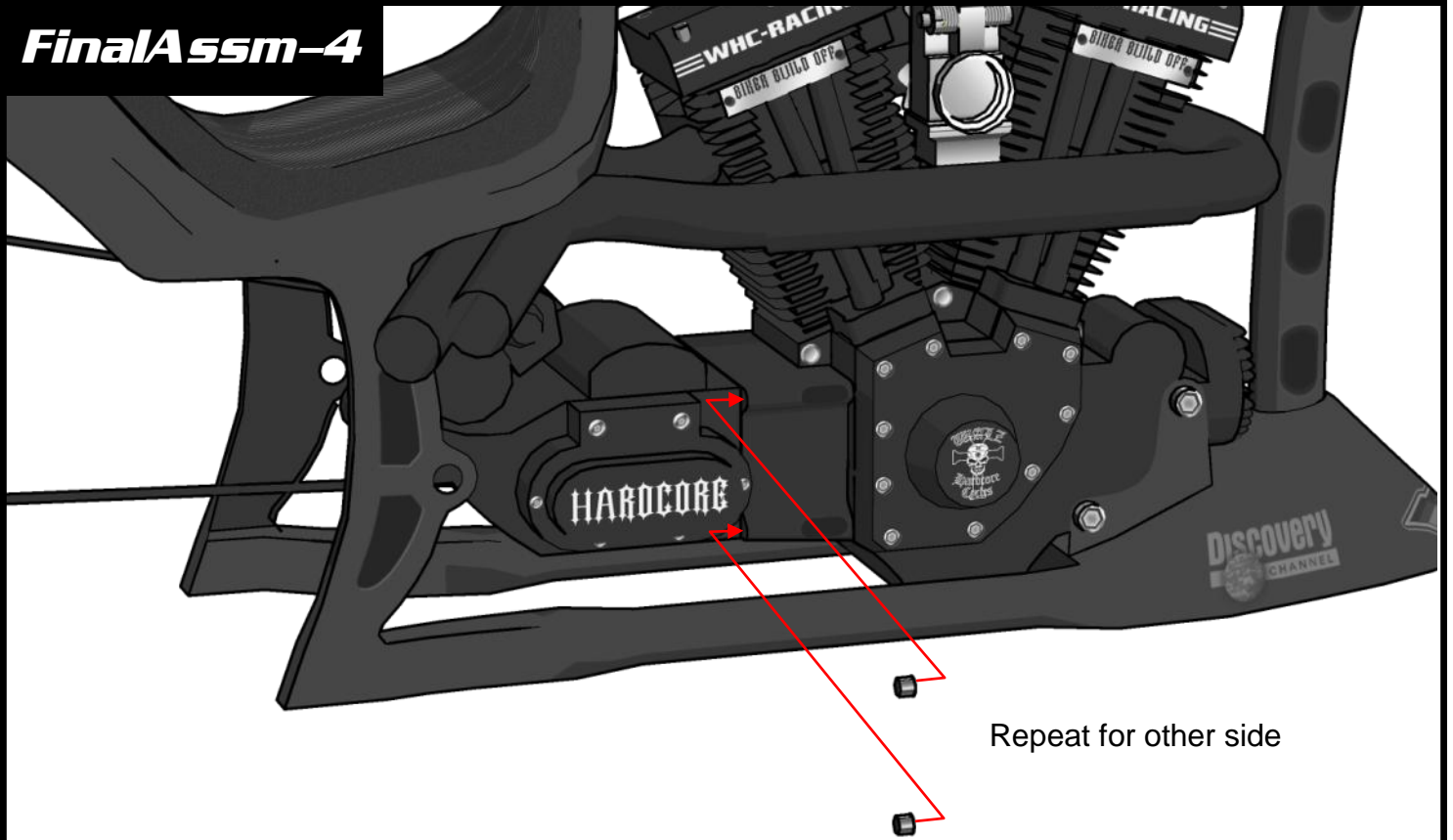
# Final Assembly

*FinalAssm-3*

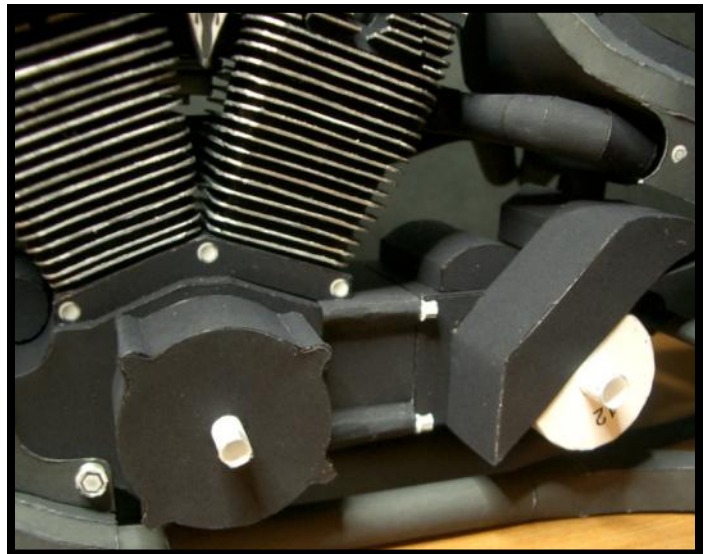


# Final Assembly

**FinalAssm-4**



Repeat for other side

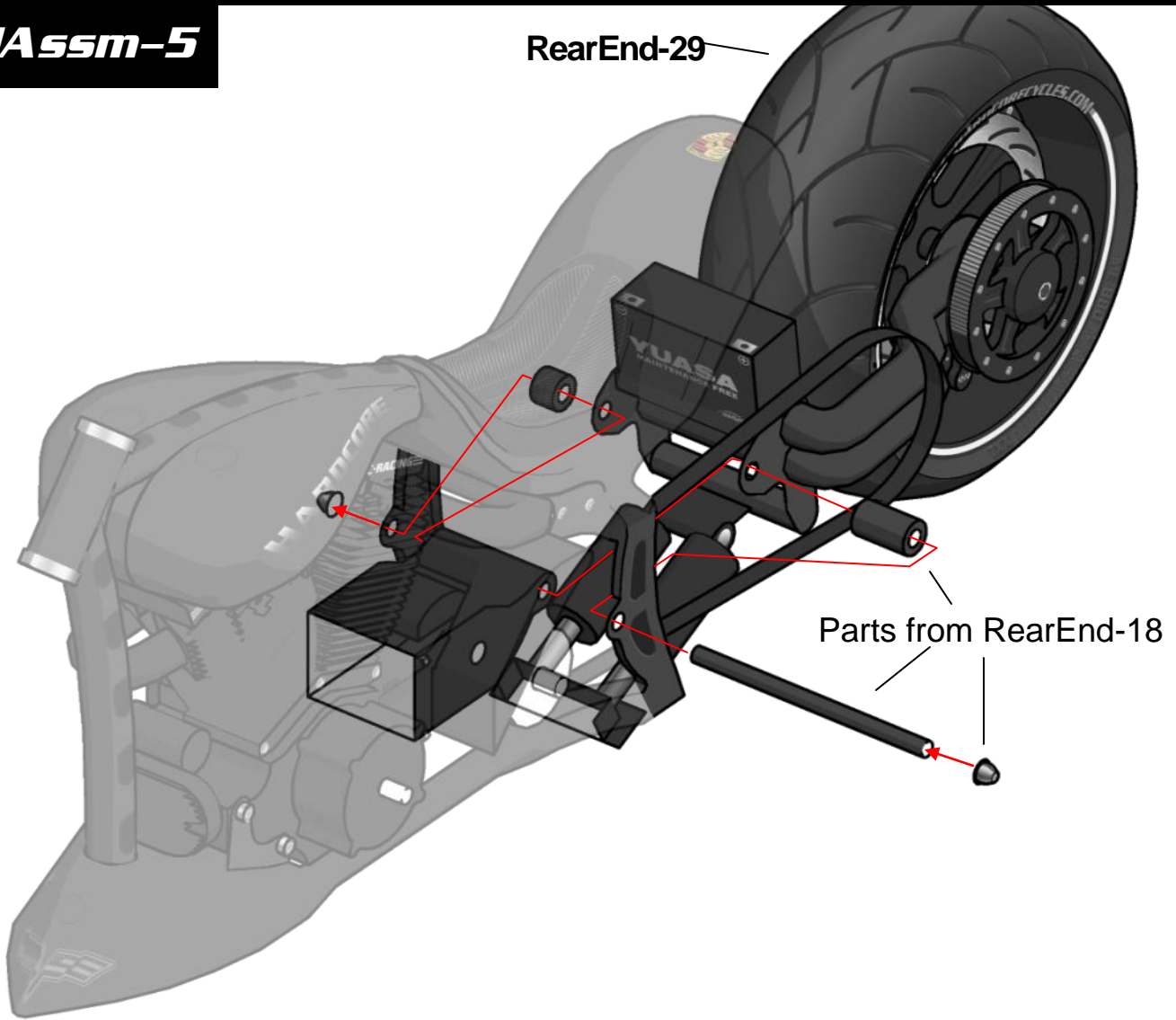




# Final Assembly

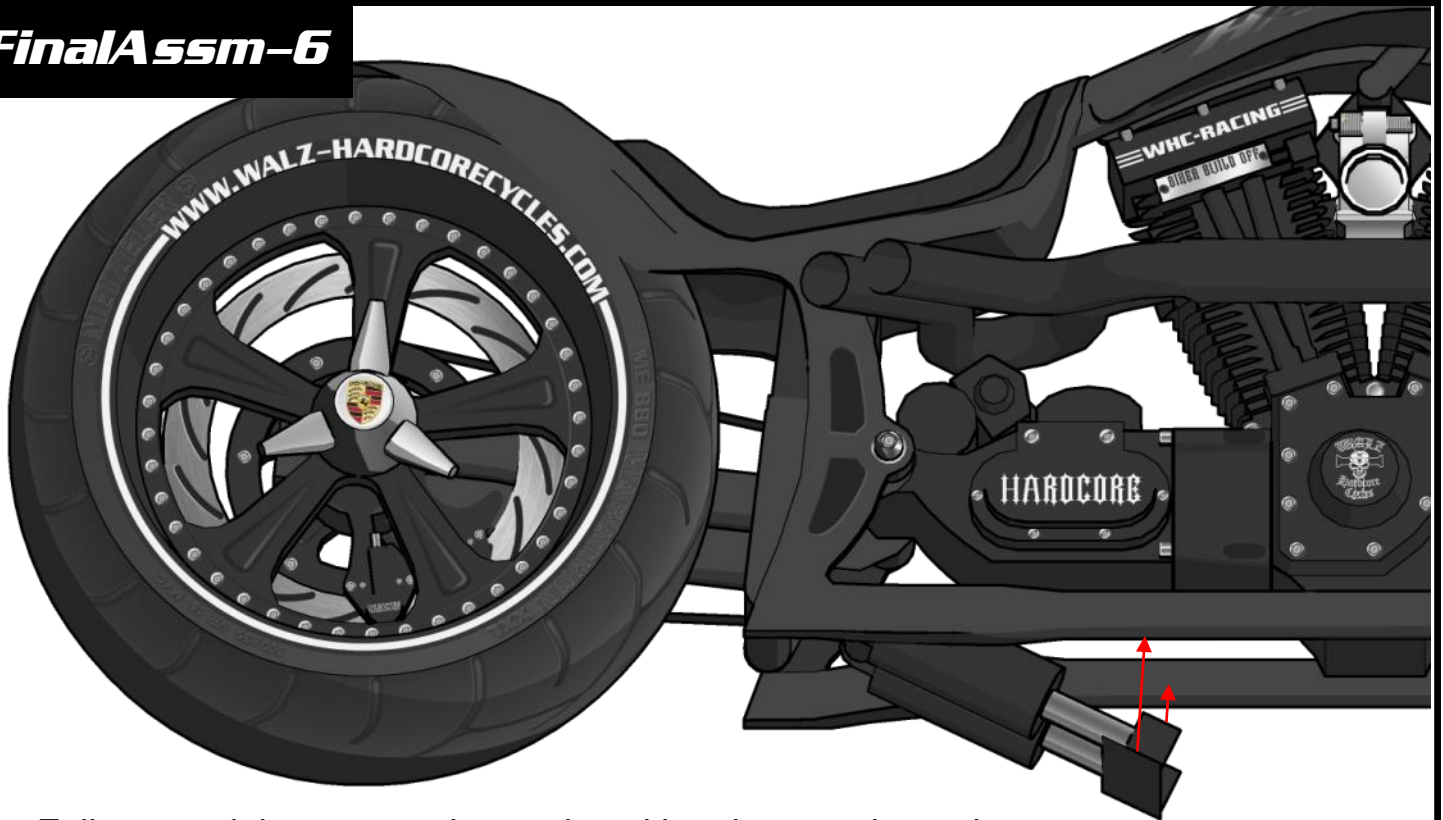
**FinalAssm-5**

RearEnd-29



# Final Assembly

## FinalAssm-6

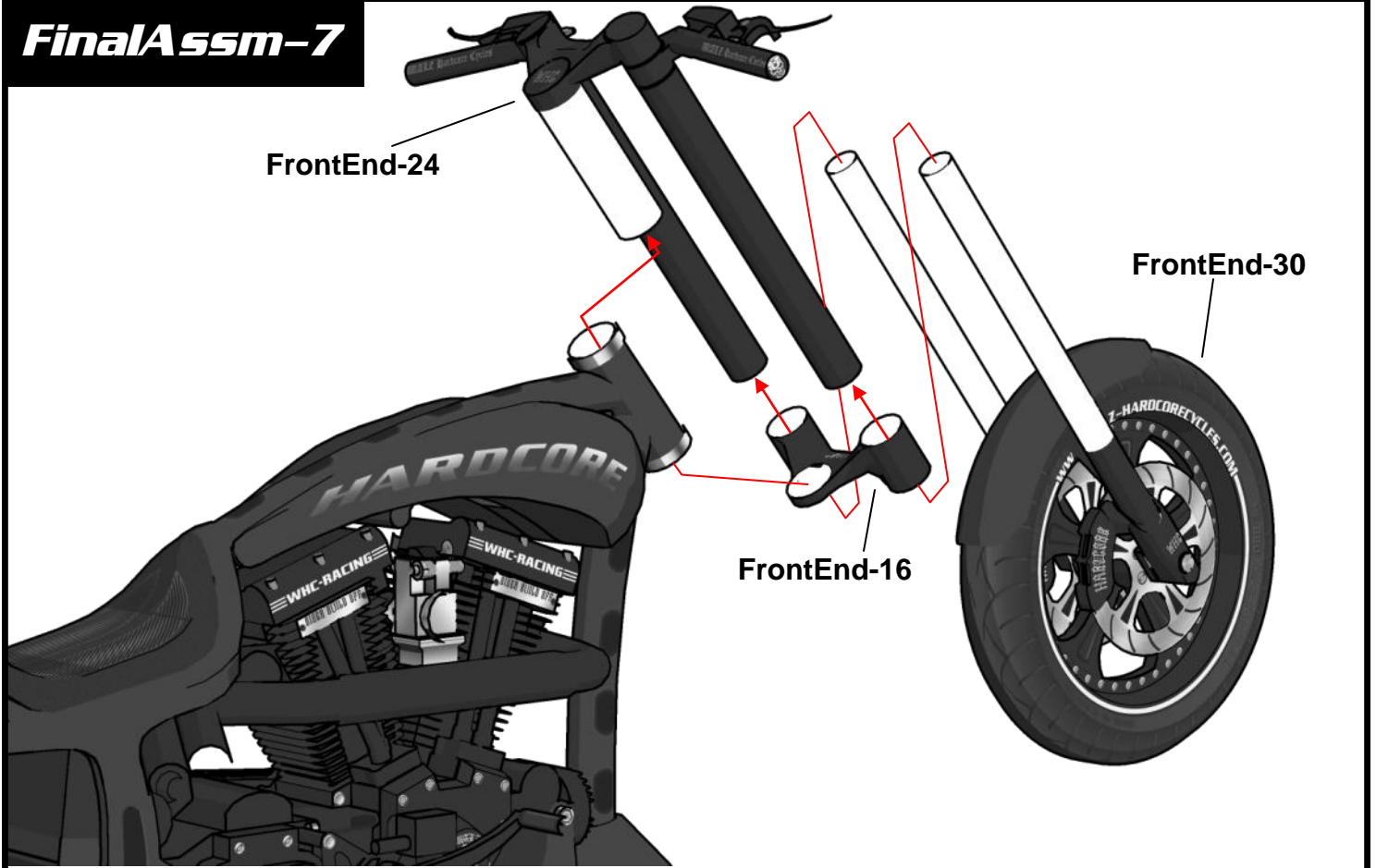


Fully extend the suspension and position the rear tire so it barely touches rear fender. Then glue the suspension bracket to the frame.



# Final Assembly

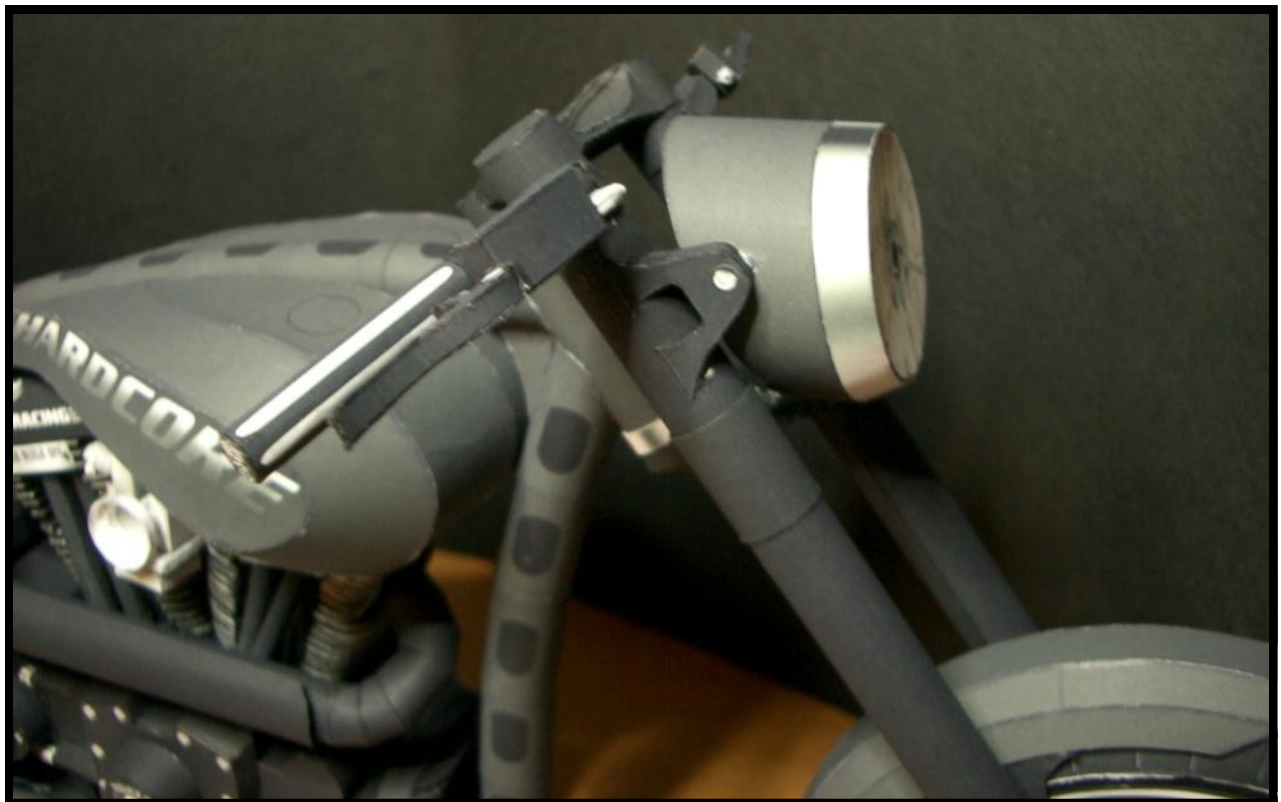
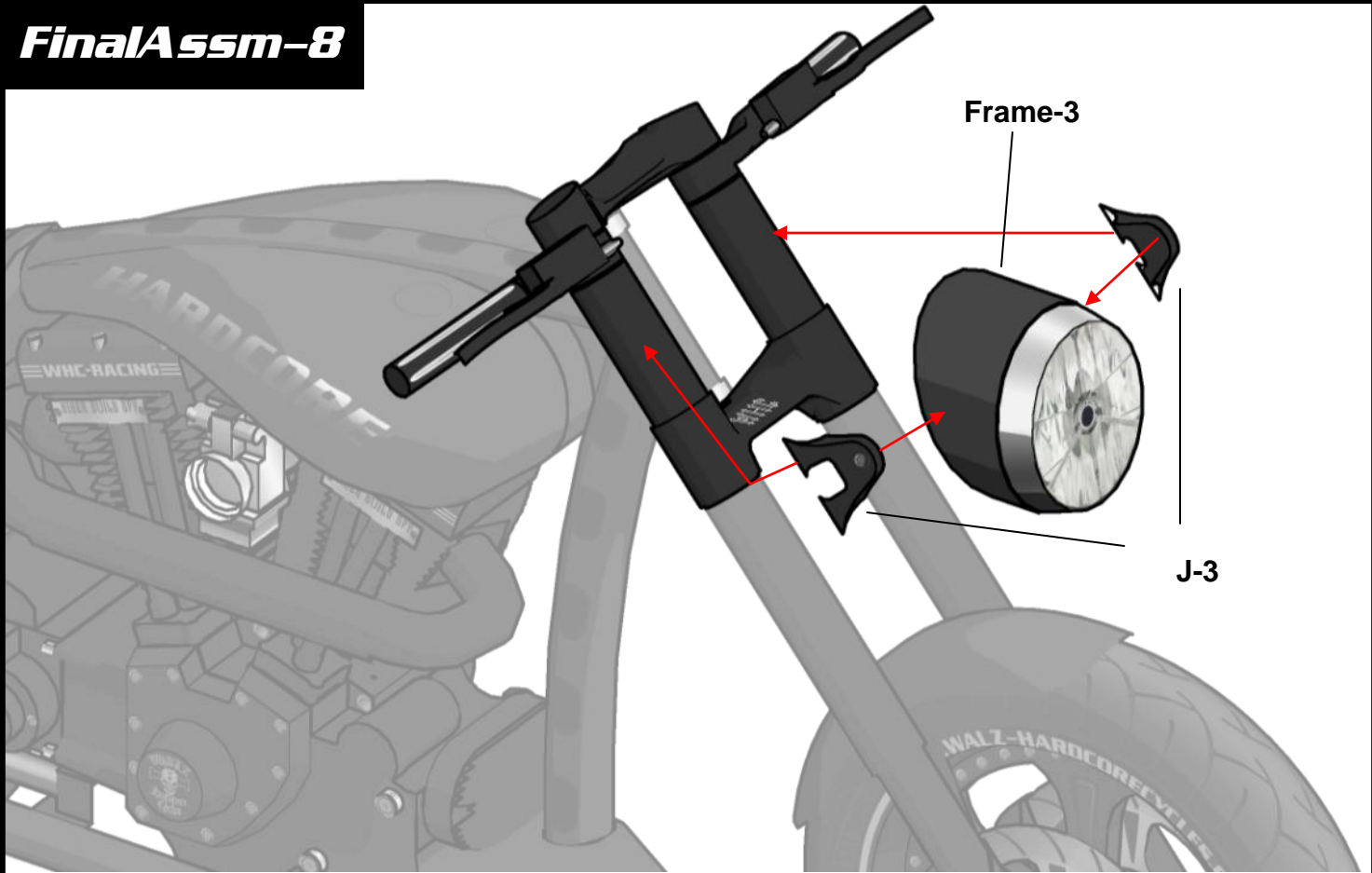
**FinalAssm-7**





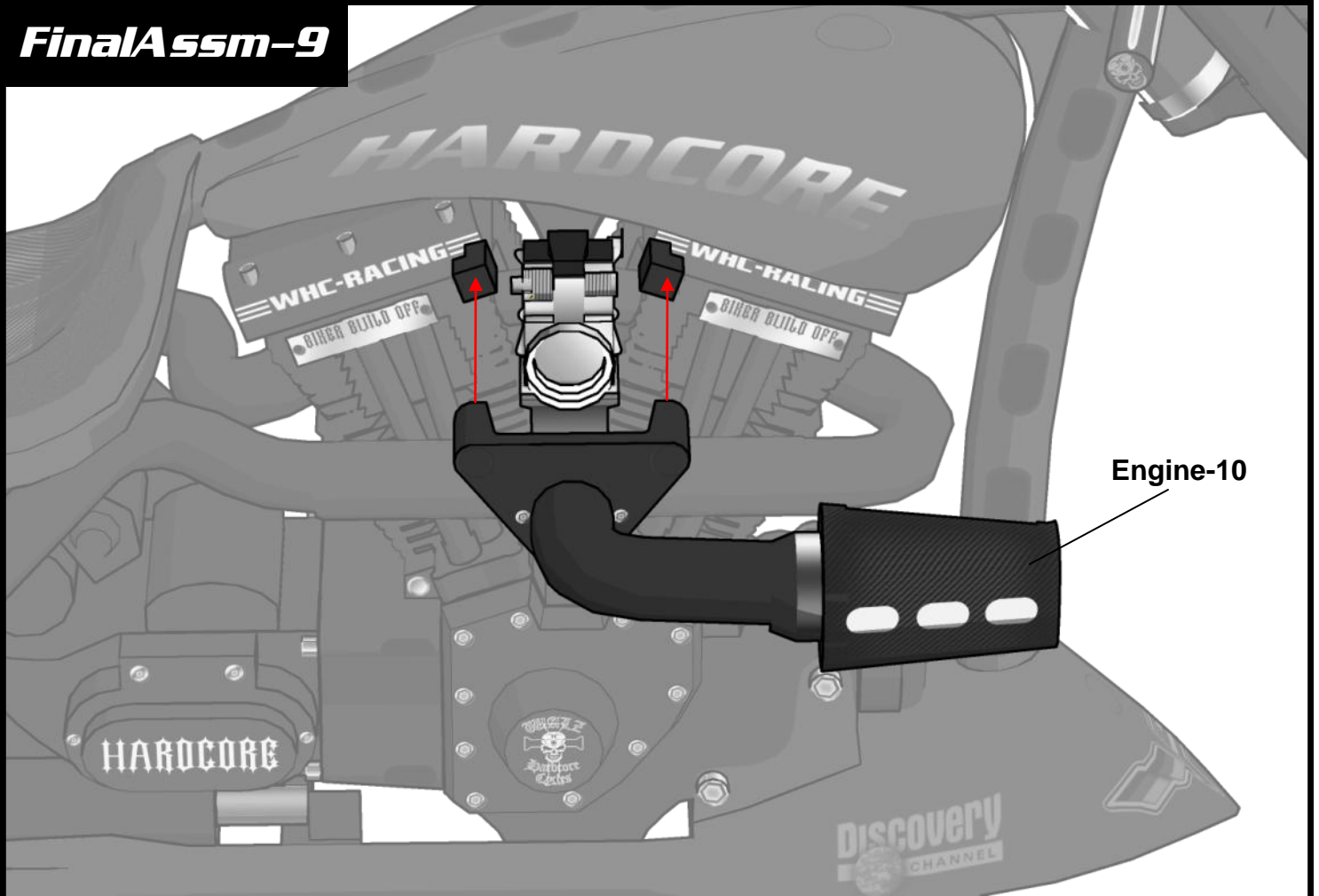
# Final Assembly

## FinalAssm-8



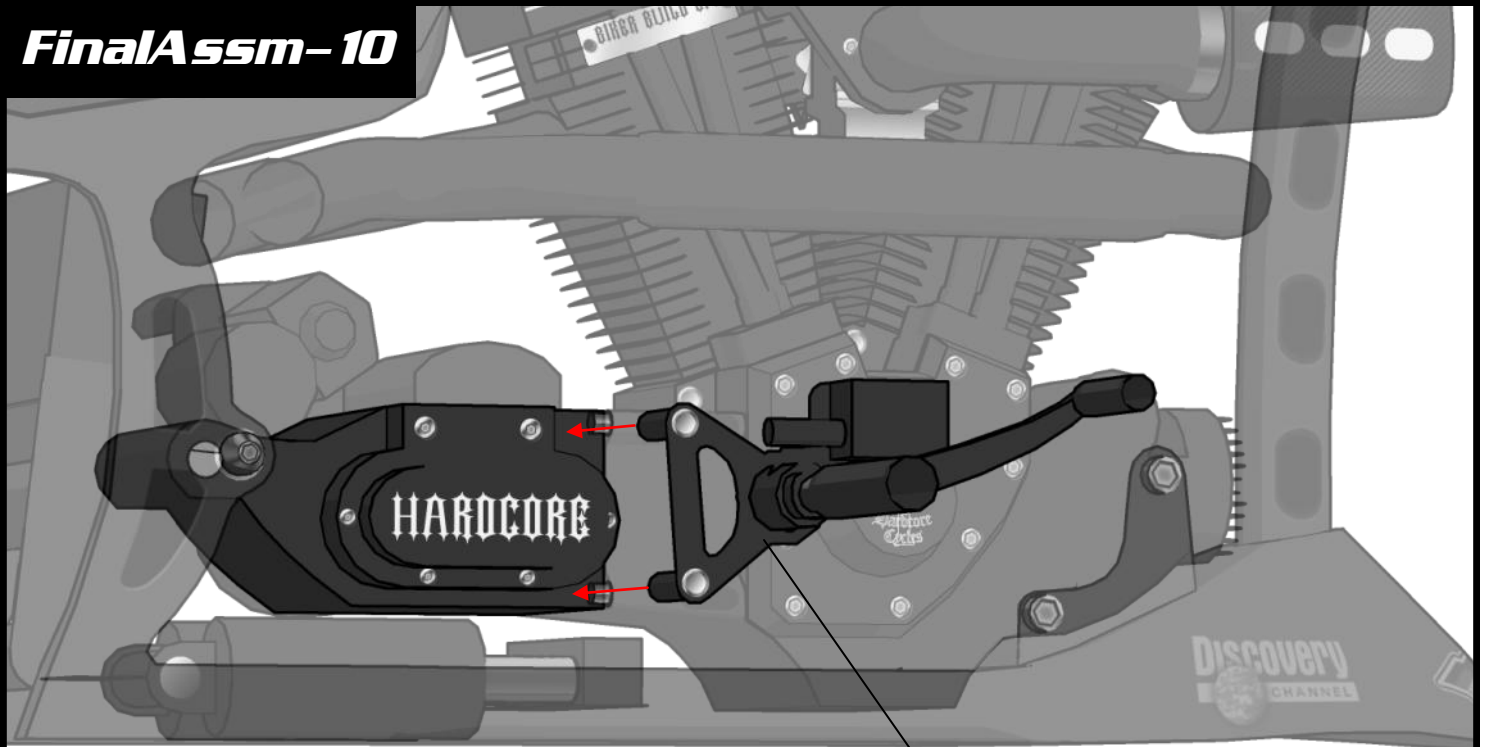
# Final Assembly

**FinalAssm-9**

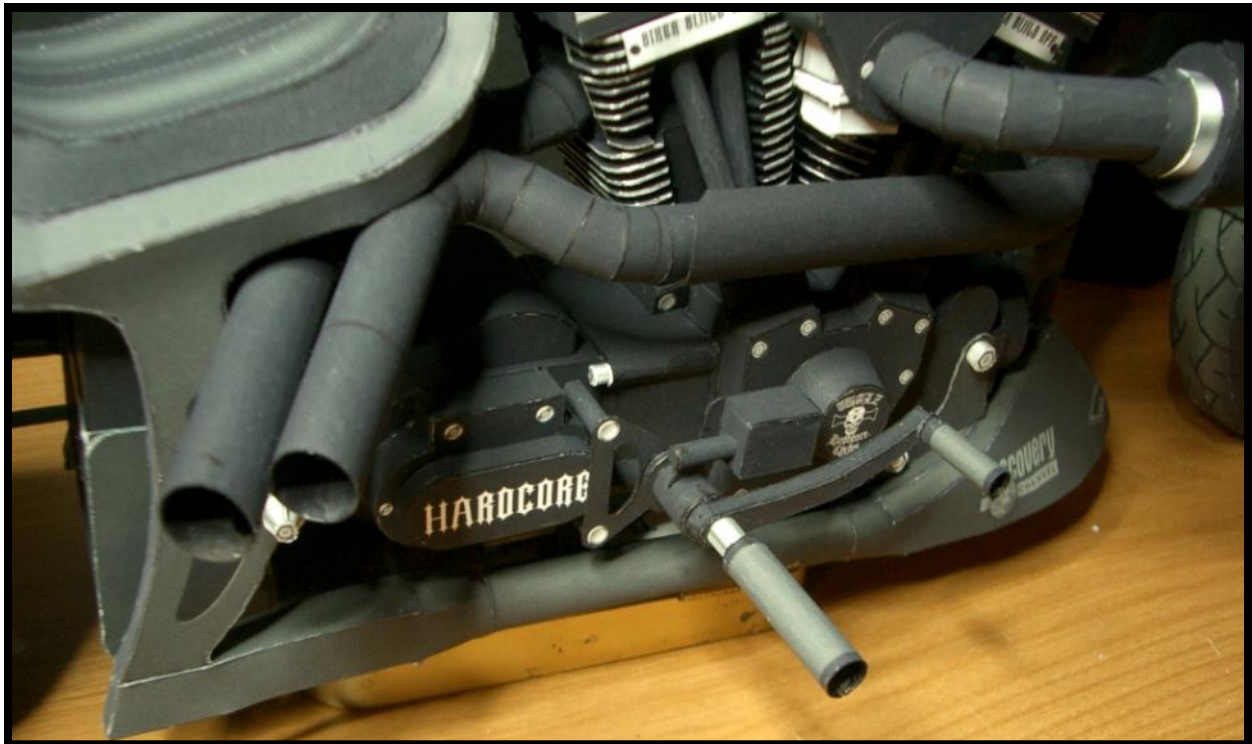


# Final Assembly

**FinalAssm-10**



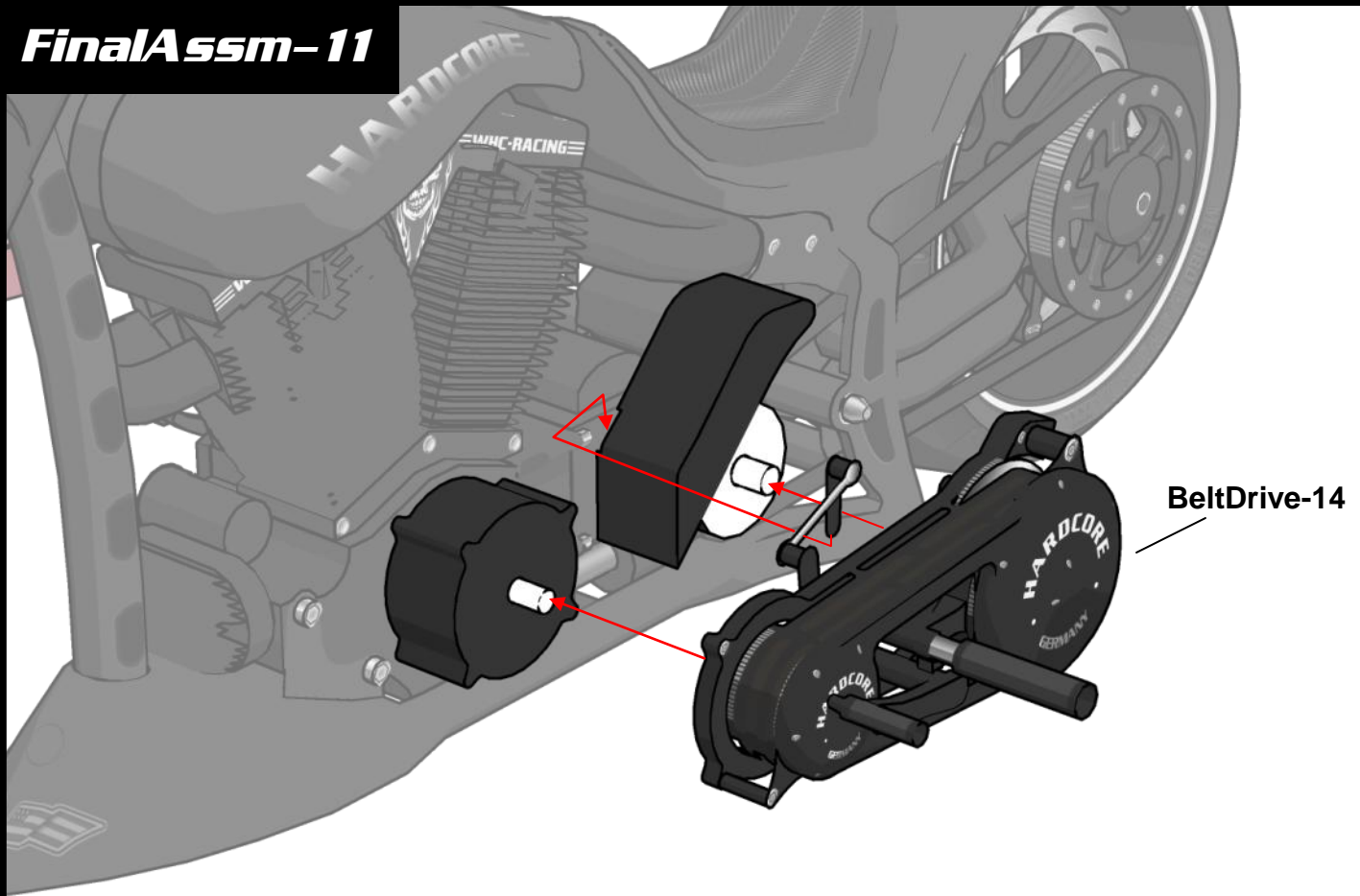
RightPedal-2





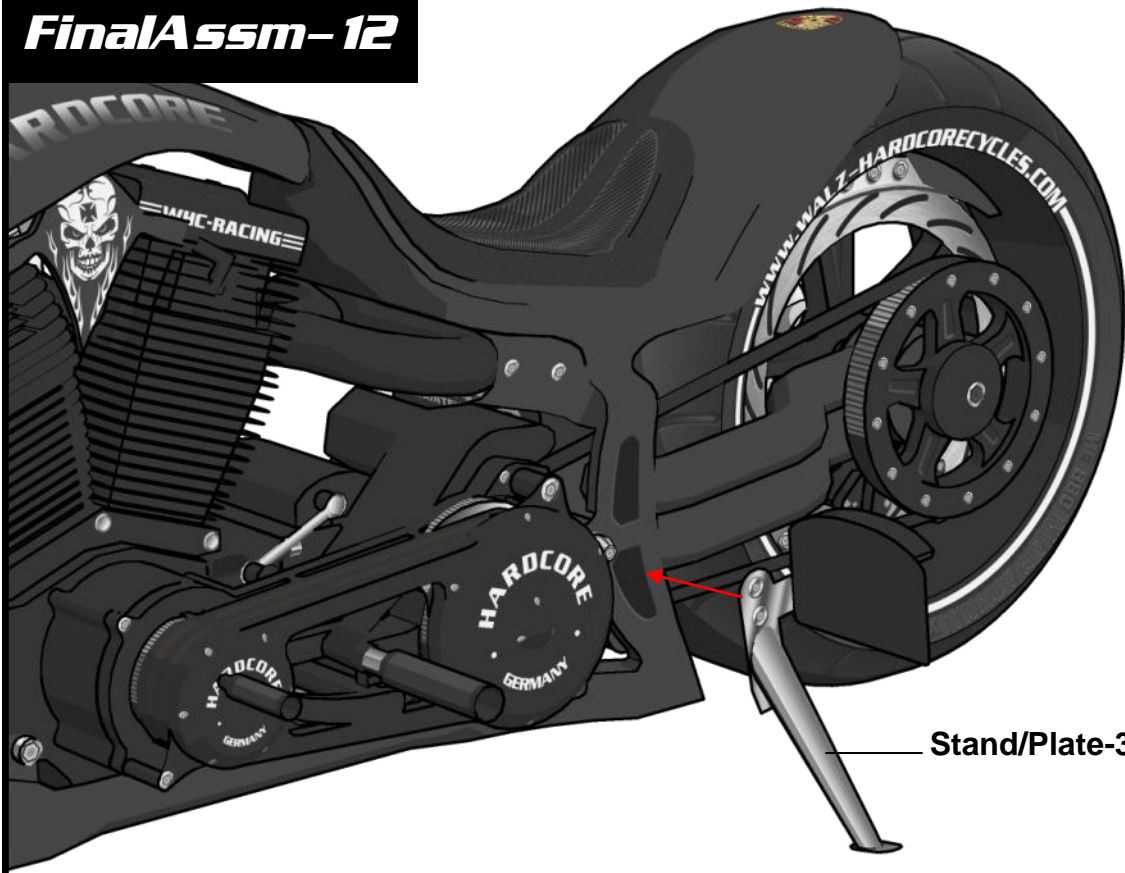
# Final Assembly

**FinalAssm-11**

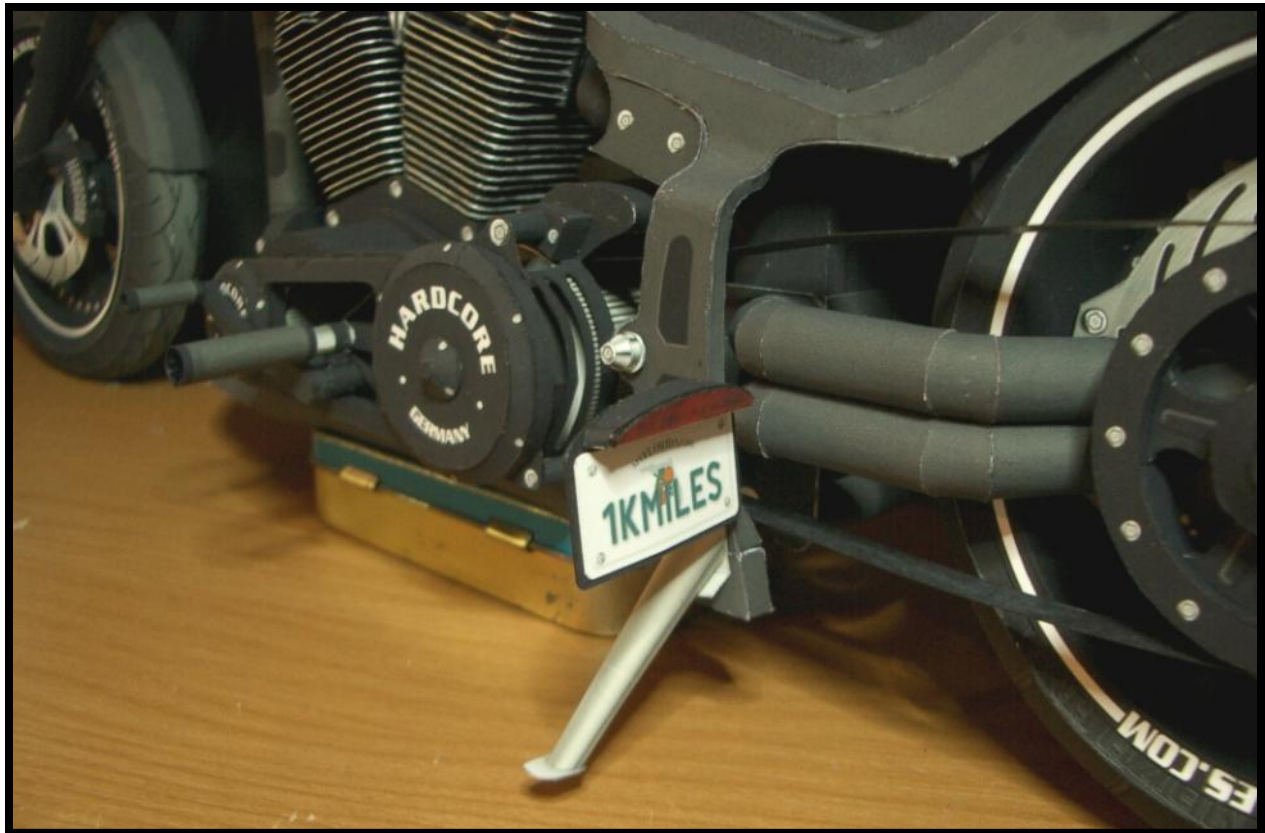


# Final Assembly

**FinalAssm-12**



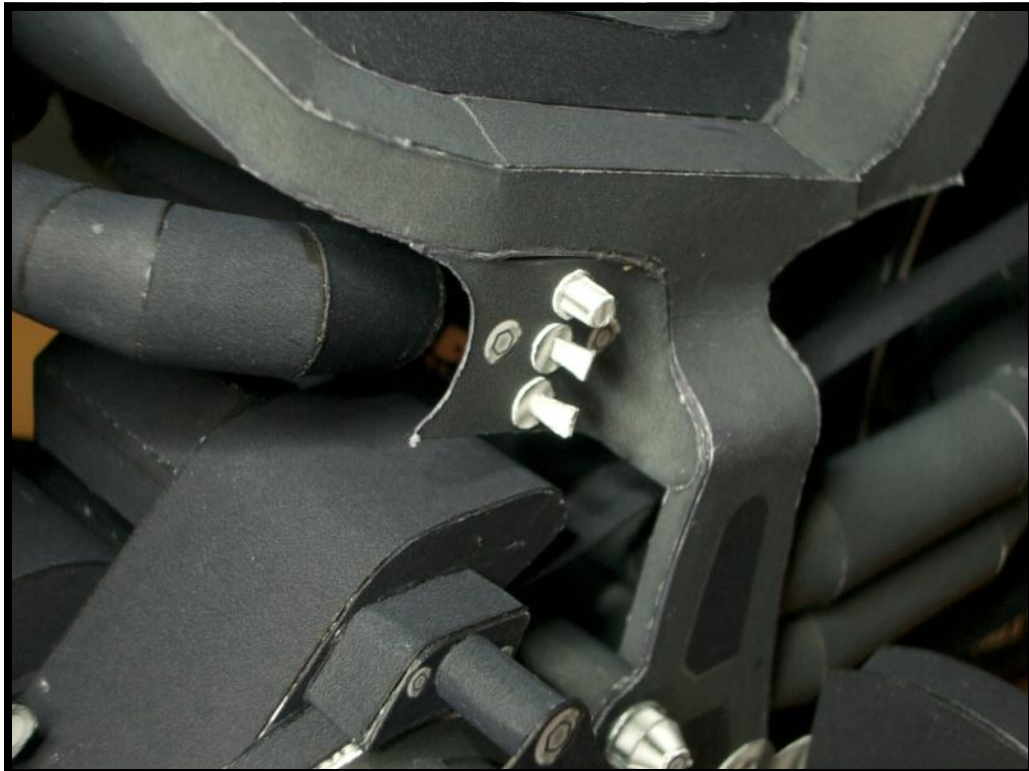
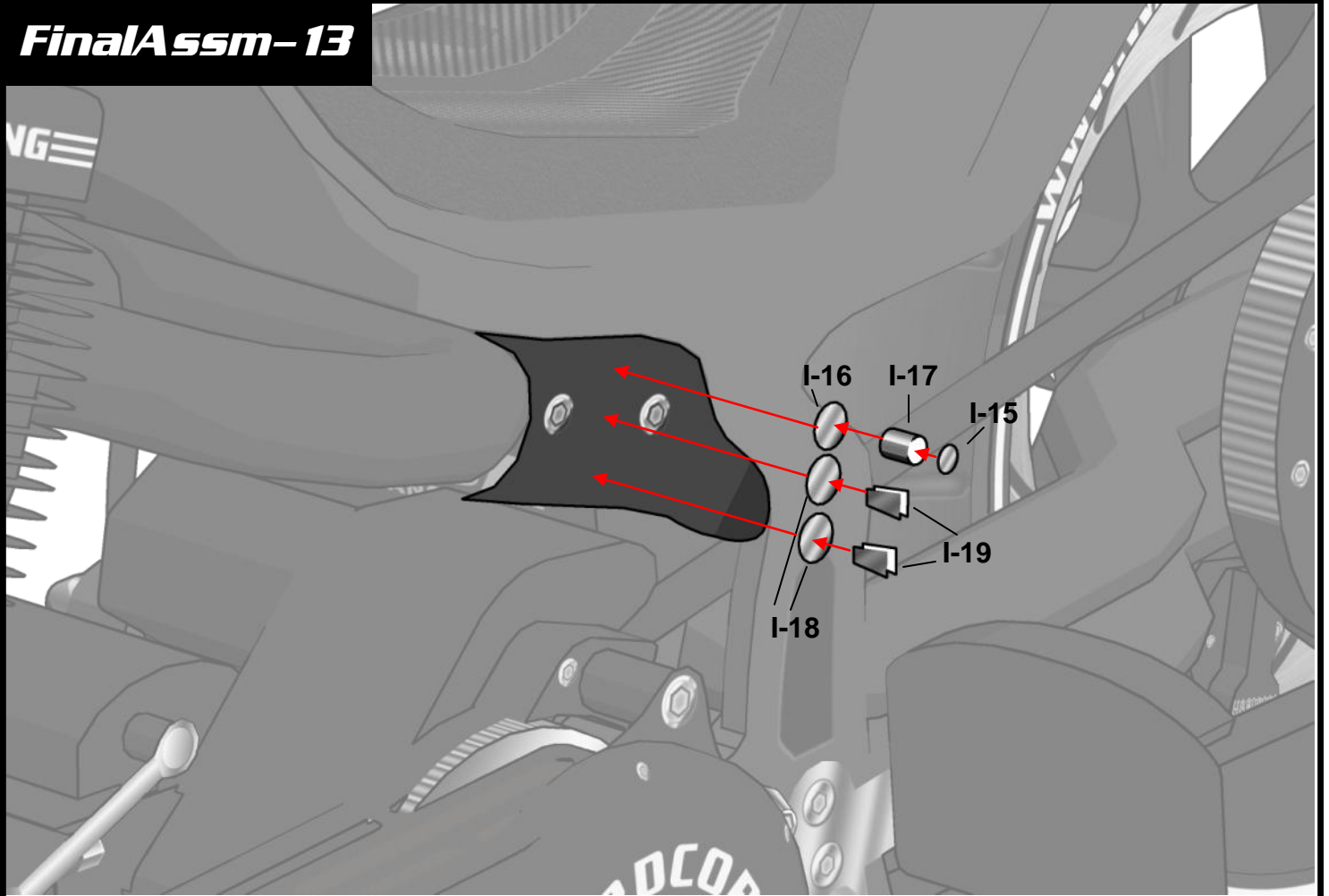
Stand/Plate-3





# Final Assembly

**FinalAssm-13**





# Completed Model Views

