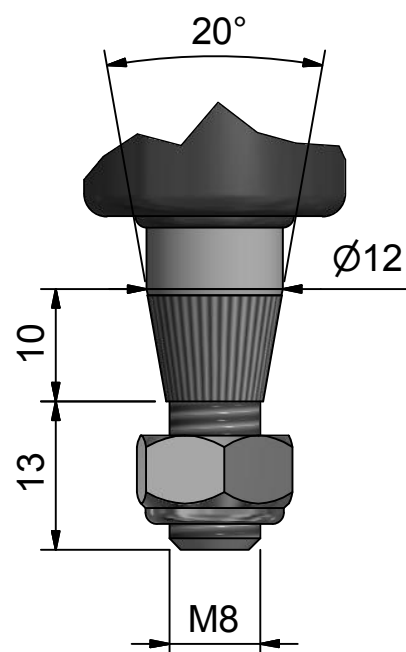
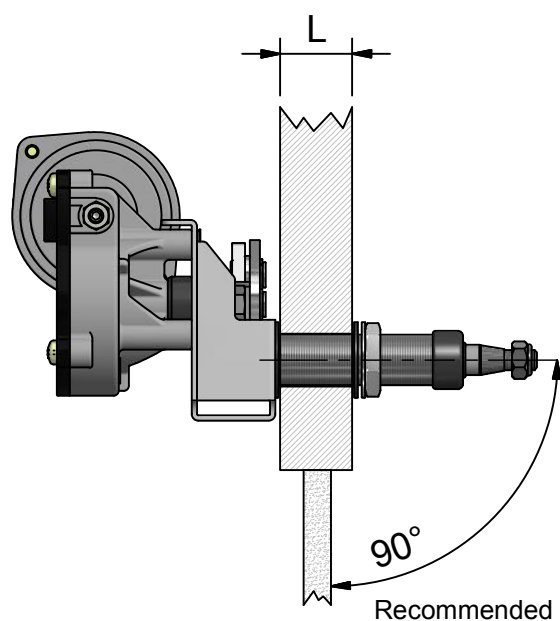
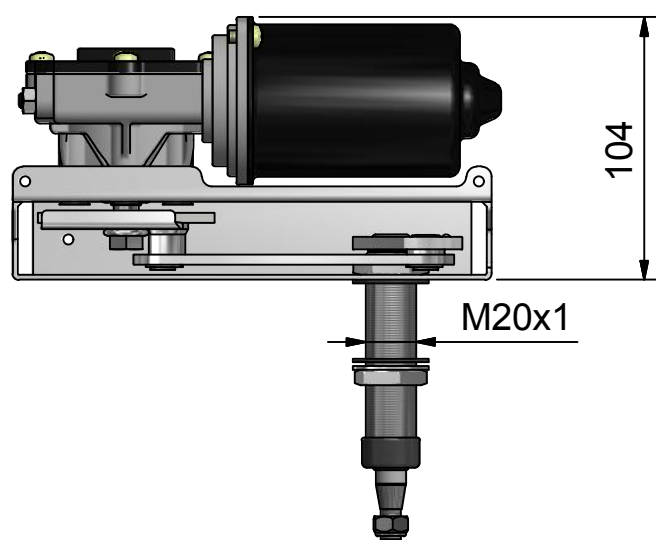
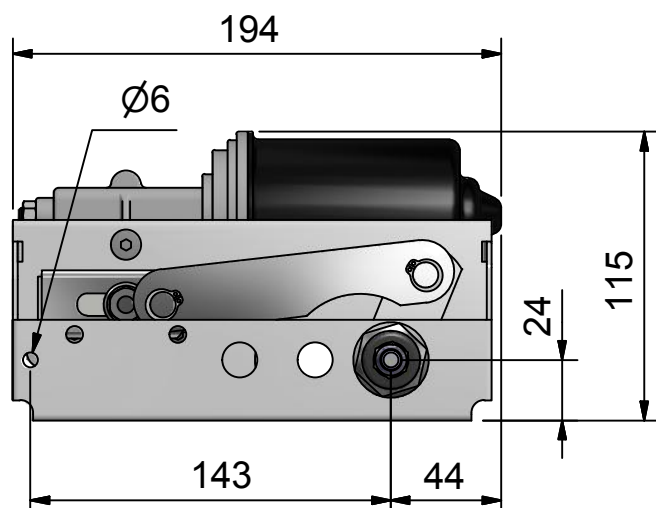


## Dimensions



L = Bulkhead thickness < 28mm

## Technical data

### General

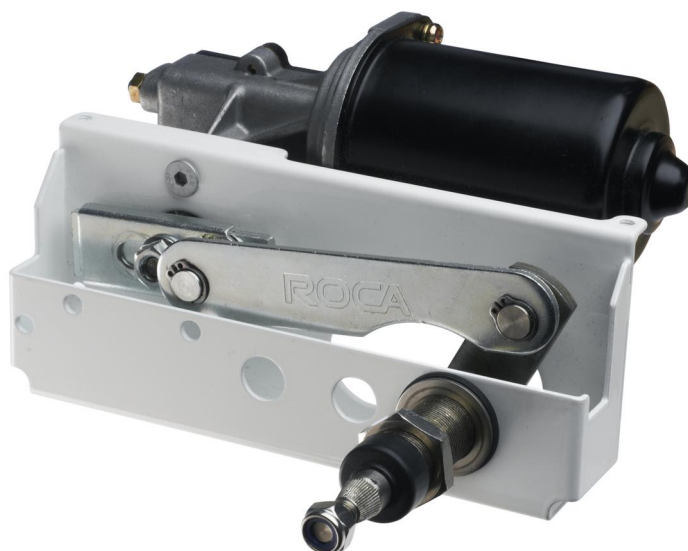
Product.....Roca windshield wiper  
Type.....W25 - 12V  
Item number.....531015

### Electrical data

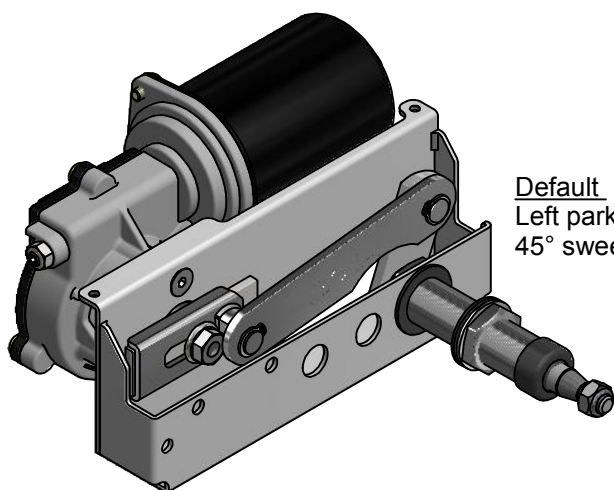
Torque.....25Nm  
Voltage.....12V  
Current - no load.....<3A  
Current - stall.....<30A  
Current - Normal running.....<7A  
Built in thermo fuse.....13,4A / 5 - 15sec.  
Recomended external fuse.....15A  
Function / speed.....Slow 35rpm / fast 55rpm / dynamic park  
Grounding.....Insulated  
EMC.....Cisper 25

### Mechanical data

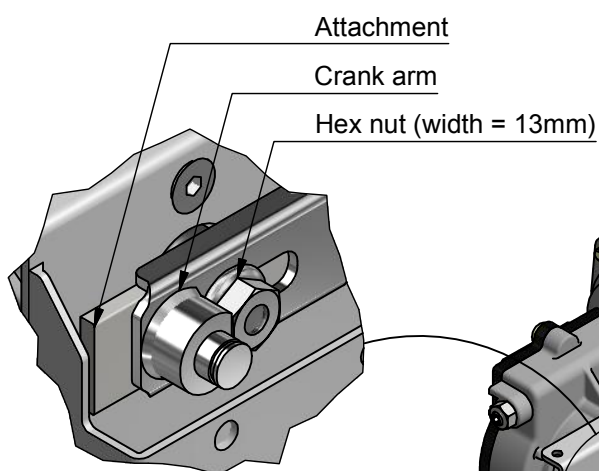
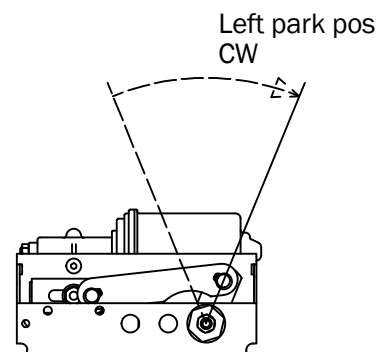
Dimension.....L x W x H = 194 x 104 x 115mm  
Drive shaft.....M20x1  
Wiper arms.....Up to 750mm  
Wiper blades.....Up to 750mm  
Sweep angle.....45° - 110° stepless adjustable



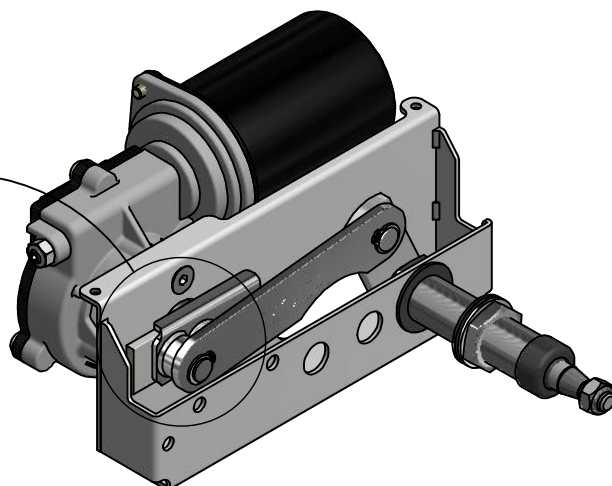
## Step 1 - Parking position.



Default  
Left parking position  
45° sweep angle



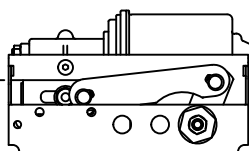
Right parking position.  
Loosen and remove the nut.  
Pull the crank arm away from attachment and rotate it 180°.  
Mount back in place and tighten the nut.



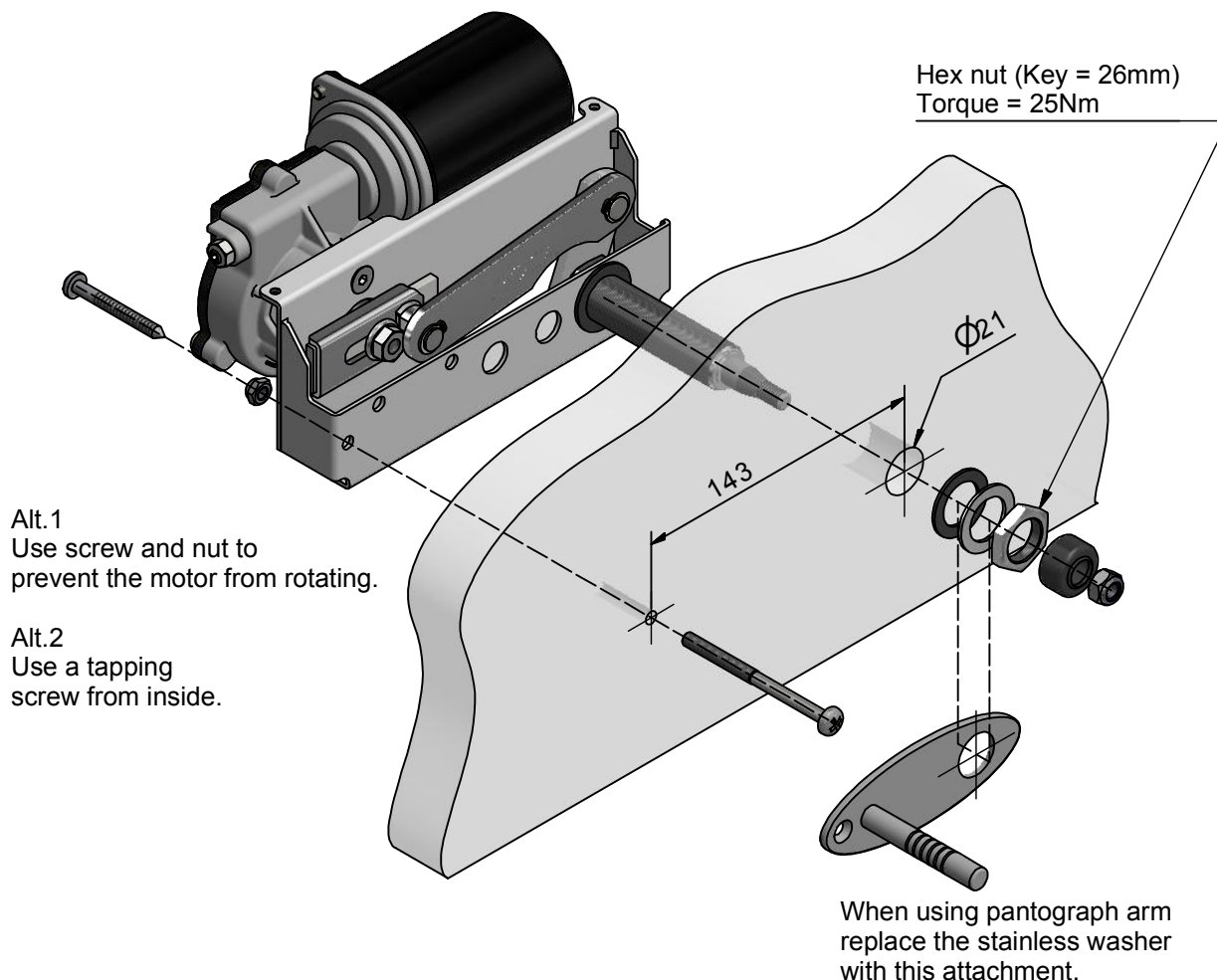
### Note:

- Disconnect the power supply during any operation inside of wiper motor.
- If the attachment comes loose from shaft make sure it's replaced in a horizontal position when motor is parked.

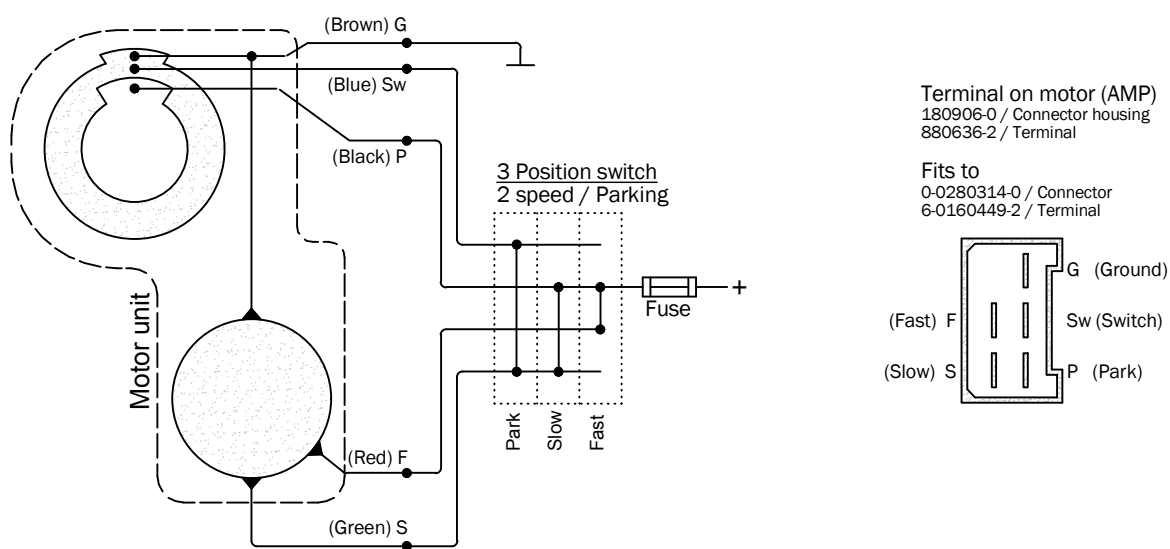
Horizontal ———  
(parked position)



## Step 2 - Motor installation.



## Electrical installation.



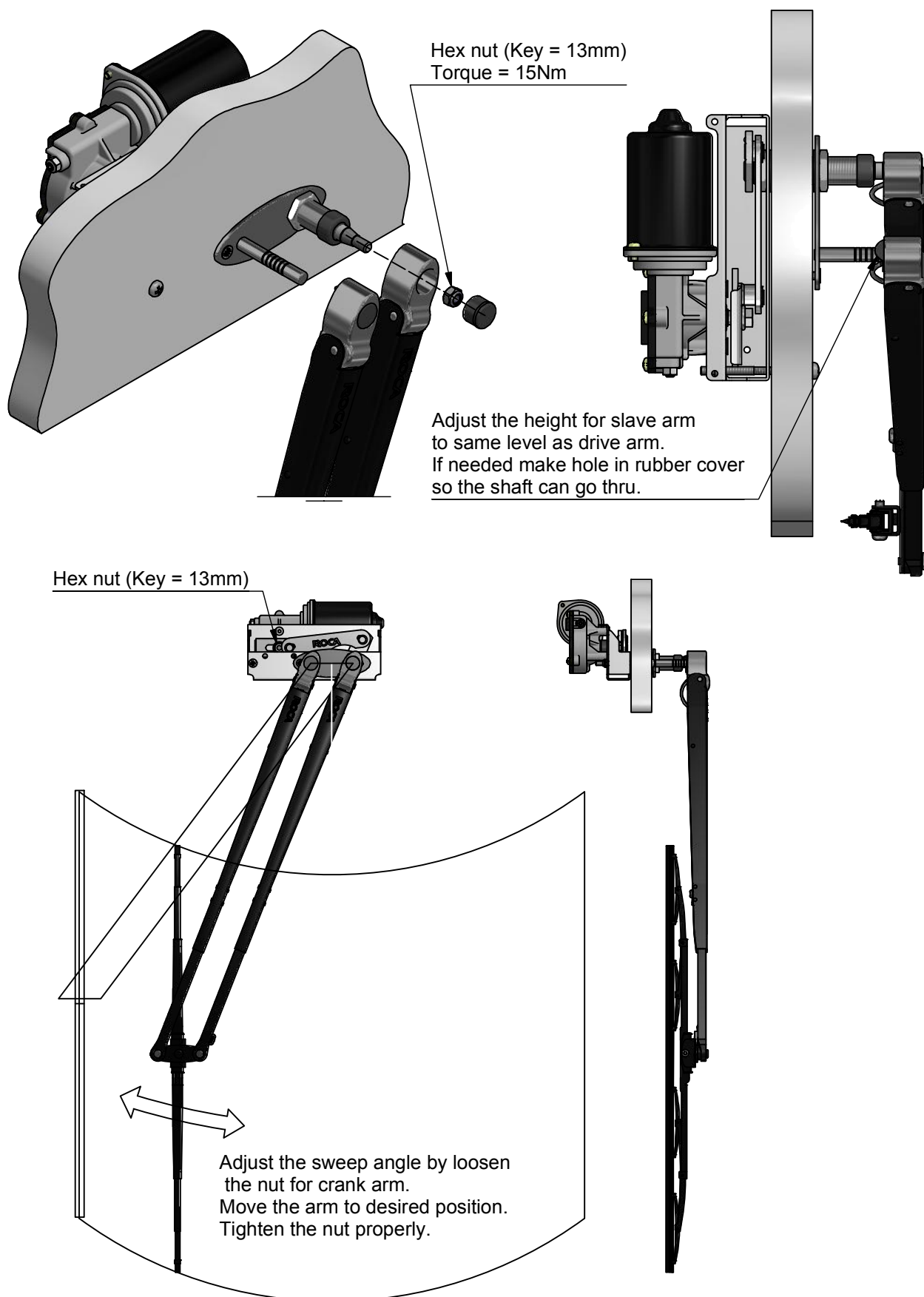
After installation test the motor briefly.

Wait until the motor stops after turning off the switch.

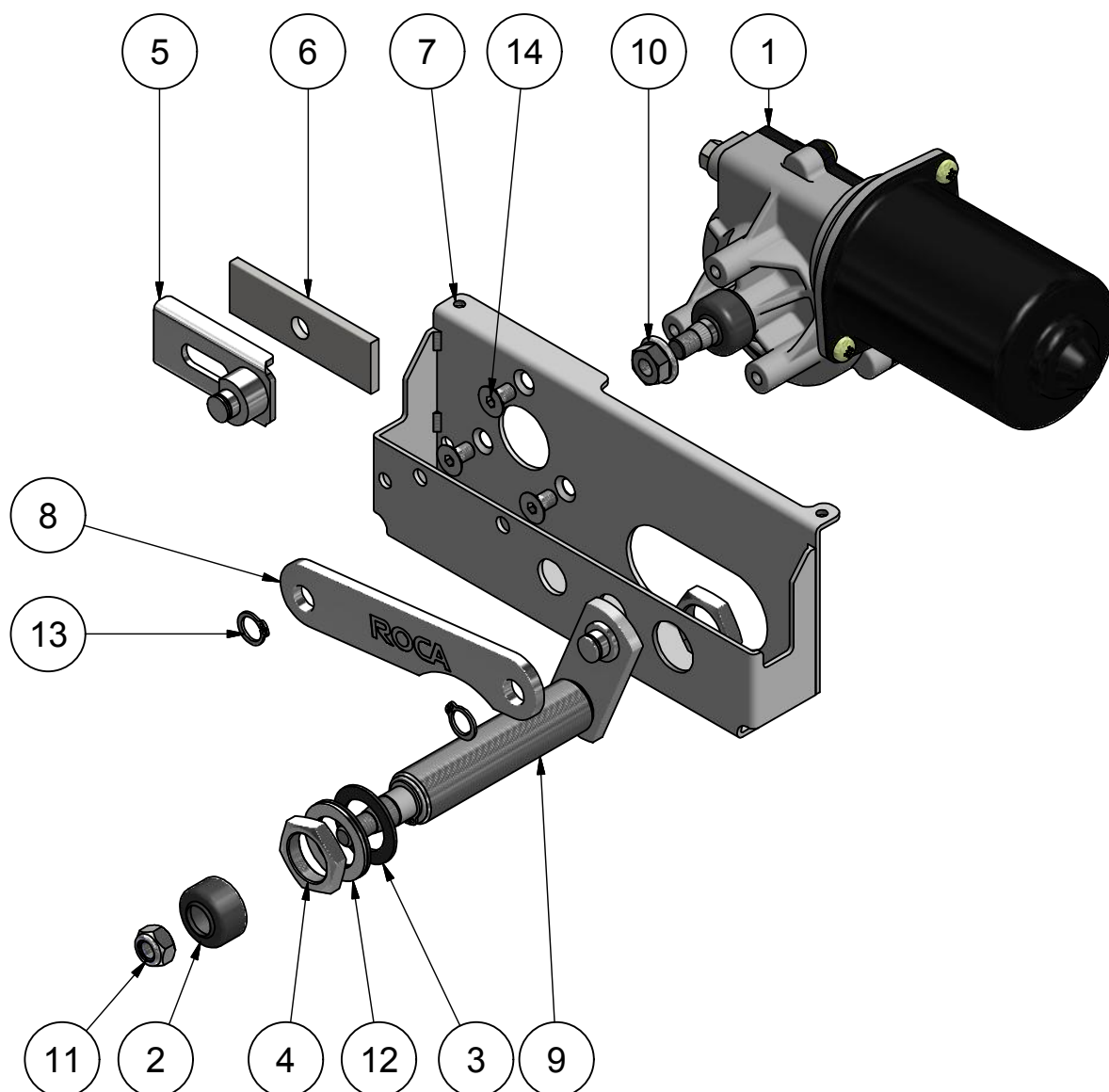
If the motor is installed correctly and a switch with park feature is used, it will stop in park position.

### Step 3 - Arm installation.

Place the wiper arm with the blade on the shaft. Fasten the nut onto shaft, but not to tight yet.  
Test the motor again to check the wiped area.  
If the wiped area is not correct, adjust the position, length of the arm and sweep angle.  
Tighten the nut properly.



## Spare parts list



Spare Parts List

| Item | Qty | Part number | Description        |
|------|-----|-------------|--------------------|
| 1    | 1   | 531045      | Motor unit 12 V    |
| 2    | 1   | 531075      | Rubber cap         |
| 3    | 2   | 531080      | Rubber gasket      |
| 4    | 2   | 531081      | Nut M20x1          |
| 5    | 1   | 531083      | Crank arm          |
| 6    | 1   | 531084      | Attachment         |
| 7    | 1   | 531085      | Chassis            |
| 8    | 1   | 531086      | Link arm           |
| 9    | 1   | 531090      | Driveshaft 28      |
| 10   | 1   | 531101      | Flange nut M8      |
| 11   | 1   | 531105      | Lock nut M8        |
| 12   | 1   | 531116      | Washer             |
| 13   | 2   | 531102      | Retaining Ring Ø10 |
| 14   | 3   | 531103      | Screw MF6x16       |