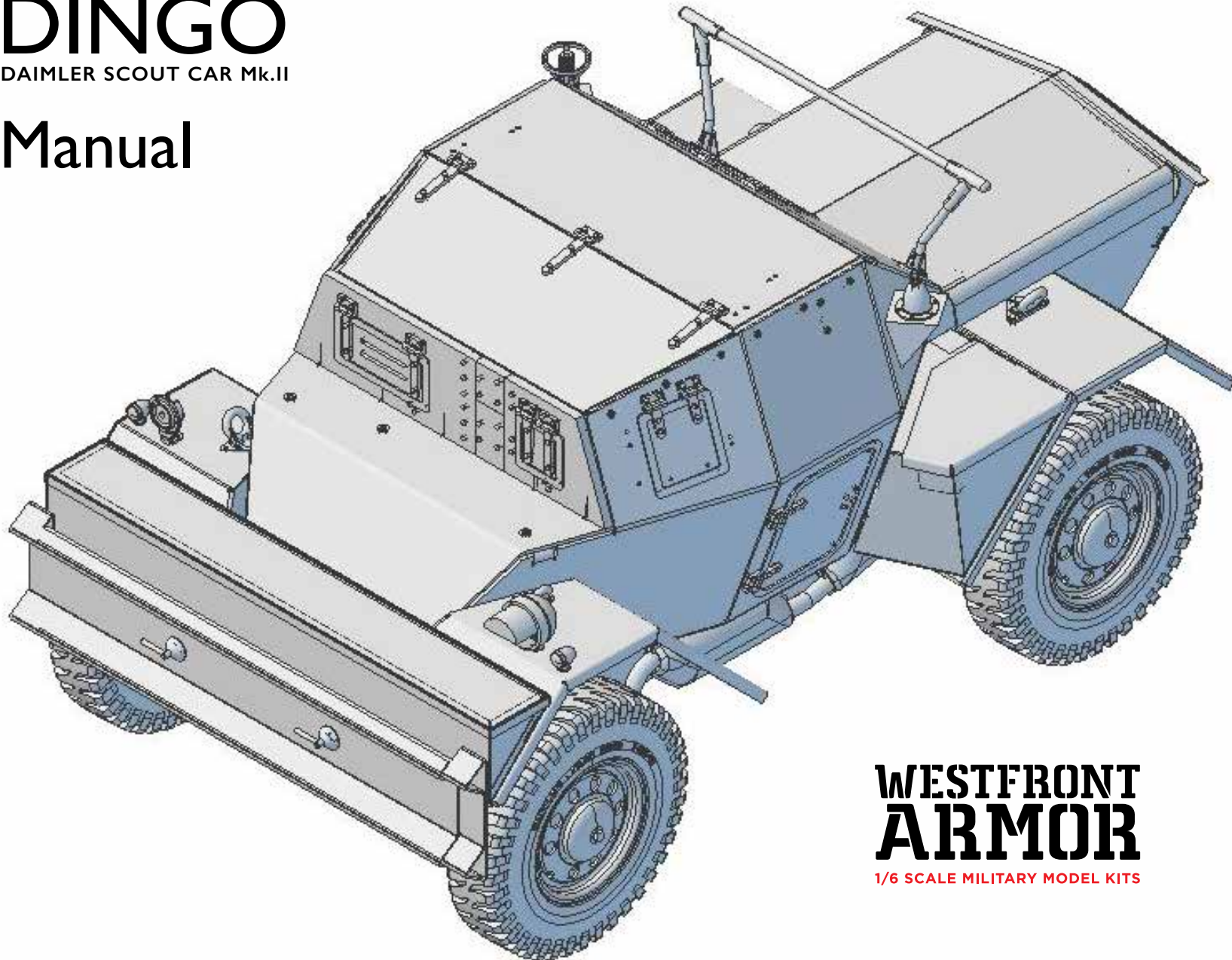


DINGO

DAIMLER SCOUT CAR Mk.II

Manual



**WESTFRONT
ARMOR**

1/6 SCALE MILITARY MODEL KITS

Congratulations with your purchase of the Westfront Armor Daimler Dingo MkII kit.

This is a 1/6 metal model kit for the experienced modeller.

We assume you have knowledge of / can perform small tasks like drilling, filing, sanding and bending small metal parts.

Building the kit - take your time to read and dry fit

Please take your time to read the instructions of each package before starting to build it. Check the content and dry fit whenever you can to get familiar with the parts before fastening them permanent.

Building the kit - Where to begin?

To start building, just follow the numbers on the packages (1,2,3,4 etc.). Each completed pack will bring you a step closer to finishing the model and you will avoid mistakes (like 'finishing the kit and discovering you forgot that 'vital part in the chassis').

As already mentioned some parts may need some work like removing burrs. NEVER USE excessive force.

Take time to sand the hole when f.i. a bearing doesn't fit.

About the material used

The parts use in this kit are mainly made of iron, steel, aluminium, white metal and brass. Many of the iron parts are coated to prevent rust and to make applying the paint easier.

Metric system

We're a dutch company so parts, screws, nuts & bolts are metric based.

Usefull tools

Drilling machine and drills

Screwdrivers in different sizes and shapes

Metric Allen keys different sizes

Small hammer

Different pliers (cutting pliers, combination pliers, pointed pliers, etc.)

Different shapes and sizes file (fine, not rough) (equalling file, round file)

Emery cloth, rather than emery (sand) paper (also to roughen the aluminium surface for painting)

Small spanners Metric size 5,5 etc.

Small socket wrench Metric size 5,5 etc.

Loctite/Gorilla-glue (or glue like Tamiya thread lock)

Sliding gauge

Paint

Grease

Do you have questions?

PLEASE EMAIL: SUPPORT@WESTFRONTARMOR

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front axle box

- | | | | | |
|----|----|---------------------------------|------------|--|
| 1 | 1x | cross member | large 5mm | |
| 2 | 1x | cross member | large 15mm | |
| 3 | 2x | cross member | small 5mm | |
| 4 | 1x | axle thick | long | |
| 5 | 1x | axle thin | short | |
| 6 | 2x | flange bearing | | |
| 7 | 2x | bearing | 15x4 mm | |
| 8 | 1x | spacer ring | M8 | |
| 9 | 1x | axle gear | large | |
| 10 | 1x | axle gear | small | |
| 11 | 4x | inner hex bolt countersunk head | M3x25mm | |
| 12 | 4x | inner hex bolt countersunk head | M3x16mm | |

Notice:

Align gears and fasten.

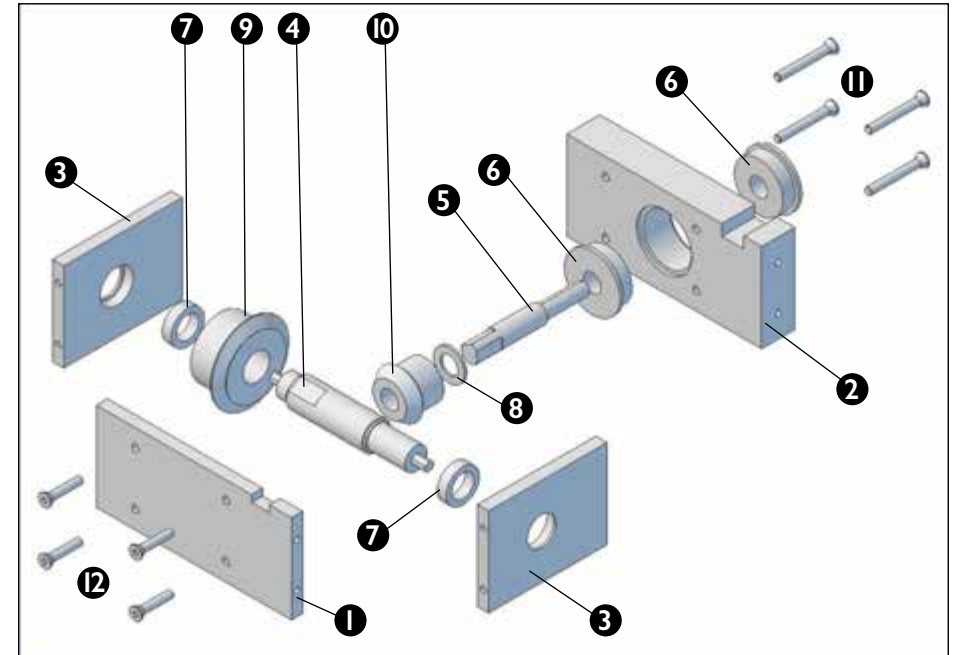
Tip:

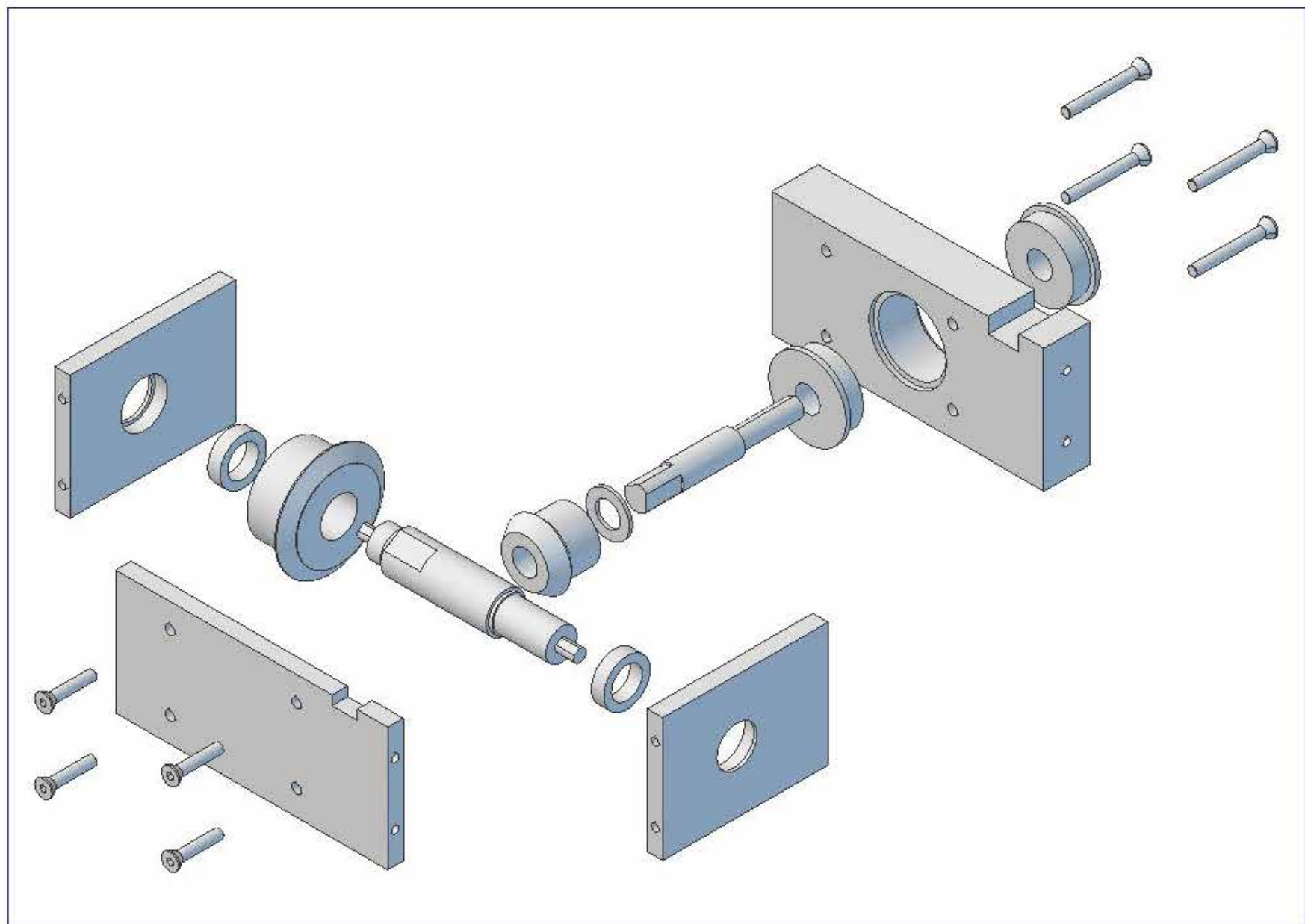
For the aluminum parts use sandpaper to take the sharp edges off and to roughen the surface for better painting.

Chassis

PACK 01

Front axle box





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Rear axle box

- | | | | |
|---|----|-----------------------------------------|------------|
| ❶ | 1x | cross member | large 15mm |
| ❷ | 1x | cross member | large 15mm |
| ❸ | 2x | cross member | small 5mm |
| ❹ | 1x | axle thick | short |
| ❺ | 1x | axle thin | long |
| ❻ | 2x | flange bearing | |
| ❼ | 2x | bearing | 15x4 mm |
| ❽ | 1x | spacer ring | M8 |
| ❾ | 1x | axle gear | large |
| ❿ | 1x | axle gear | small |
| ⓫ | 8x | inner hex bolt countersunk head M3x25mm | |

Notice:

Align gears and fasten.

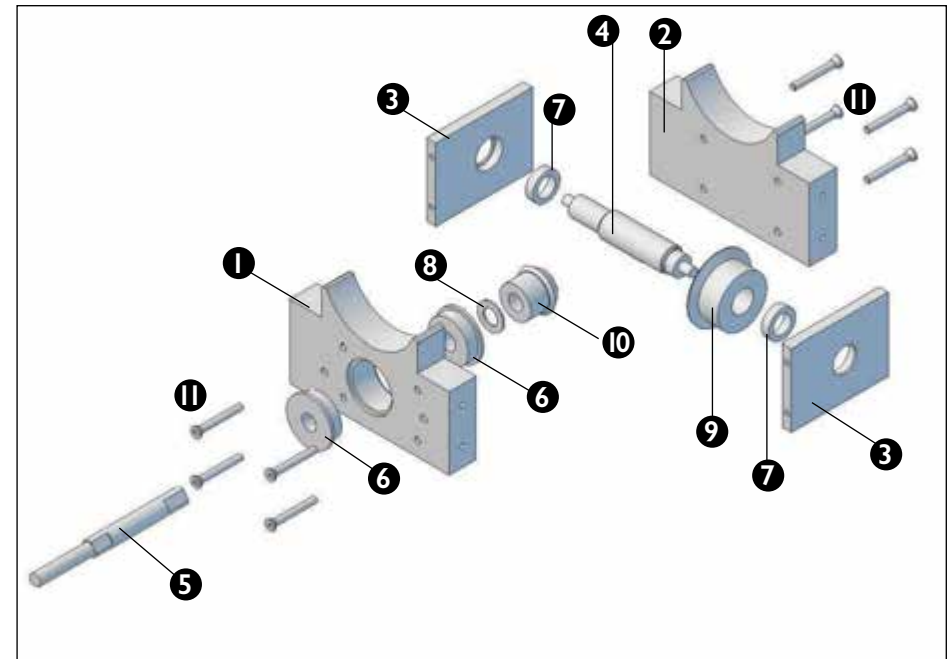
Tip:

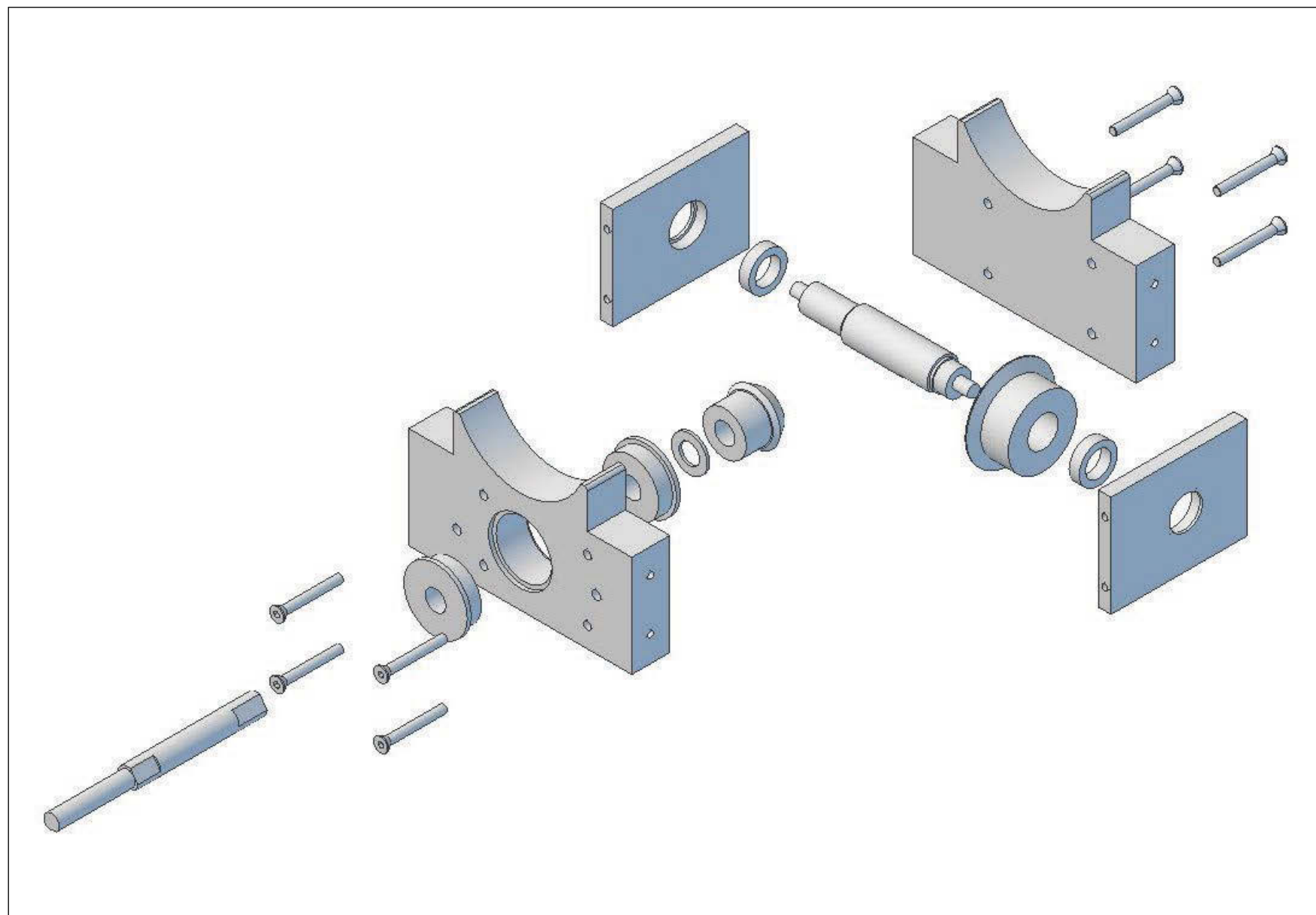
For the aluminum parts use sandpaper to take the sharp edges off and to roughen the surface for better painting.

Chassis

PACK 02

Rear axle box





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Axle box rear

- ❶ 1x cross member large 5mm (mount on axle box rear)
- ❷ 1x inner hex bolt countersunk head M4x16mm (mount on axle box rear)
- ❸ 1x engine axle gear small \varnothing 6mm (mount on engine axle)
- ❹ 2x inner hex bolt countersunk head M4x12mm (mount engine)
- ❺ 1x axle thin short
- ❻ 1x gearbox axle gear large \varnothing 6mm
- ❼ 1x shim \varnothing 6mm 1mm thick (optional)
- ❽ 3x bearing 13x5 mm
- ❾ 2x shim \varnothing 6mm 0,25mm thick
- ❿ 1x shim \varnothing 8mm 0,5mm thick (mount on rear axle)
- ⓫ 1x gearbox axle gear large \varnothing 8mm (mount on rear axle)
- ⓬ 1x cross member large 15mm
- ⓭ 1x cross member large 10mm
- ⓮ 2x inner hex bolt countersunk head M4x40mm
- ⓯ 1x inner hex bolt countersunk head M4x35mm (+ M4 nut, not shown)

Notice:

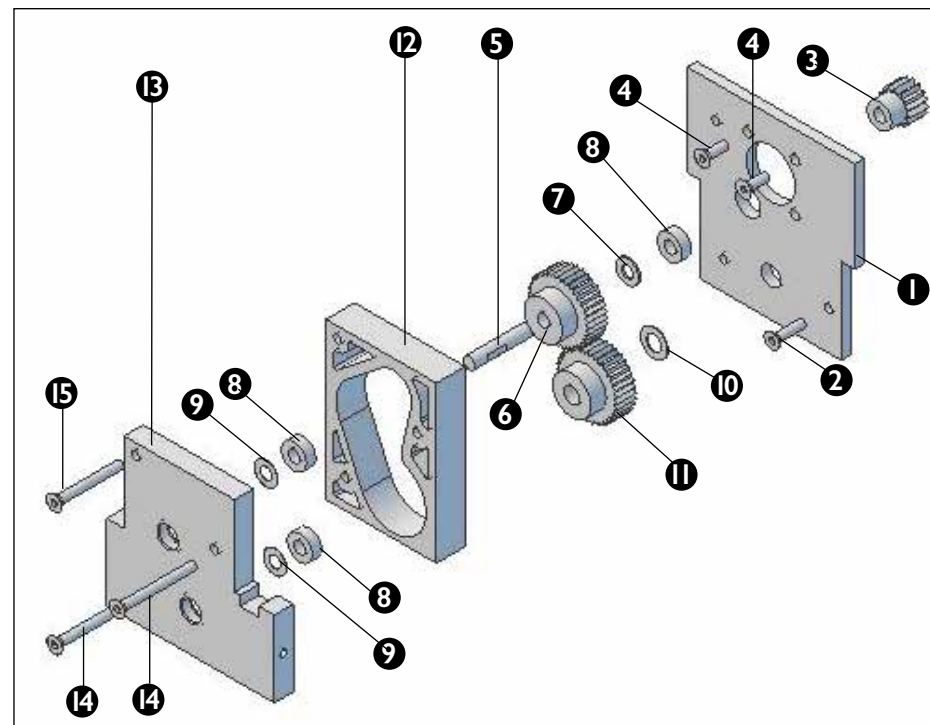
Place nr ❷ rear axle box lid (pack 04) on rear axle box before mounting engine and cross member ❶ pack 03 to rear axle box. Align, fasten and grease the gears before closing the gear box. Do not over tighten bolts ❿ and ⓯. Check movement gearbox.

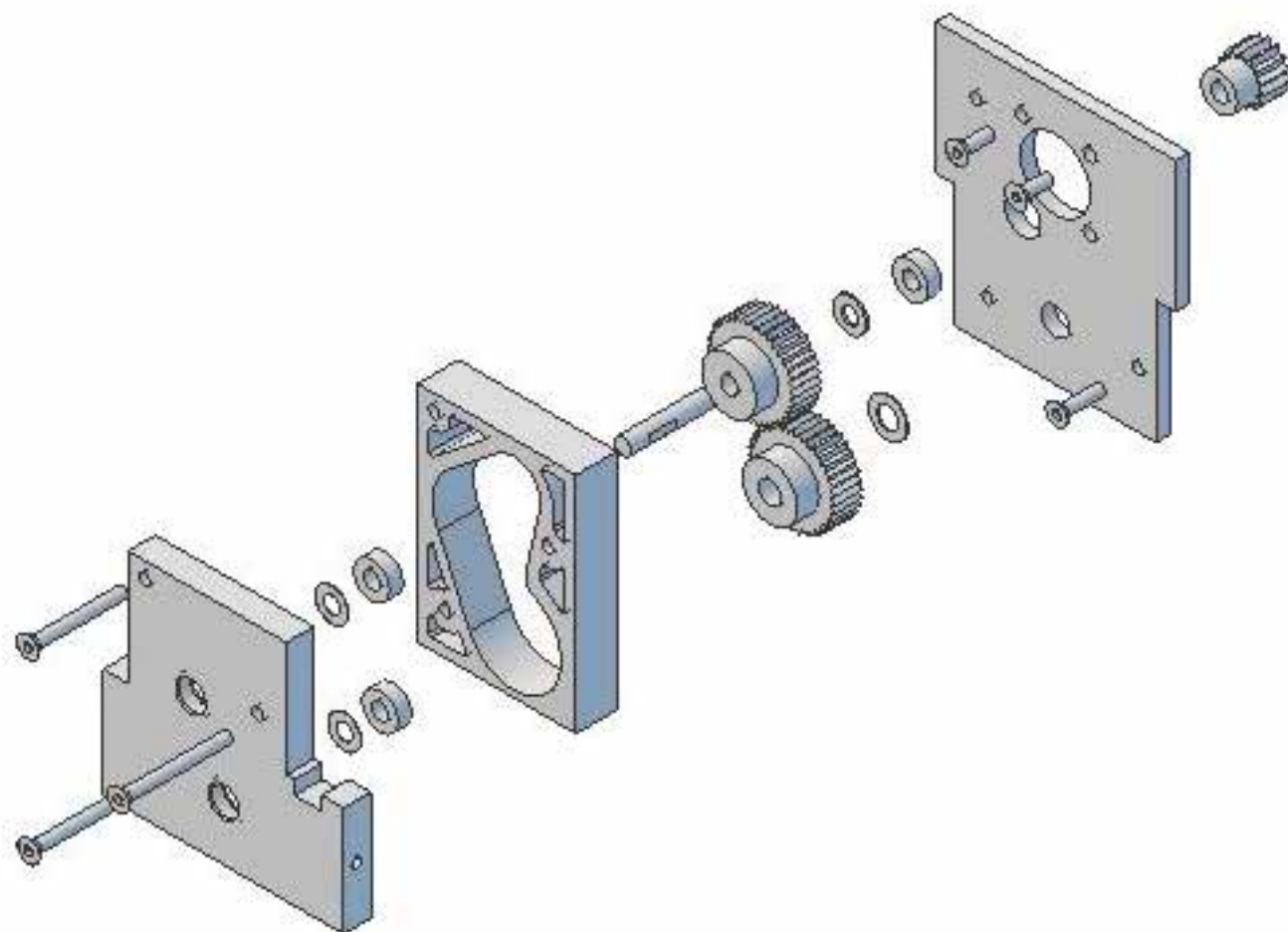
Tip: For the aluminum parts use sandpaper to take the sharp edges of and to roughen the surface for better painting.

Chassis

PACK 03

Gear box





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Chassis frame

- ❶ 1x chassis rail left
- ❷ 1x chassis rail right (with unique production number)
- ❸ 1x servo plate holder
- ❹ 1x servo (not shown in drawing)
- ❺ 4x inner hex bolt M4x10mm (not shown in drawing)
- ❻ 4x M4 nut (not shown in drawing)
- ❼ 1x rear axle box lid
- ❽ 2x bumper support (left and right) glue m3 square nut (not shown in drawing) in place for mounting ramps (pack 24)
- ❾ 2x inner hex truss head bolt M4x10mm
- ❿ 1x prop shaft
- ⓫ 2x prop shaft connector
- ⓬ 16x inner hex bolt countersunk head M3x20mm
- ⓭ 2x inner hex bolt countersunk head M4x20mm
- ⓮ 2x bumper ground plate (see pack 12)

Notice:

Mount servo on servo plate holder ❸ and lay cable in place before mounting servo plate.

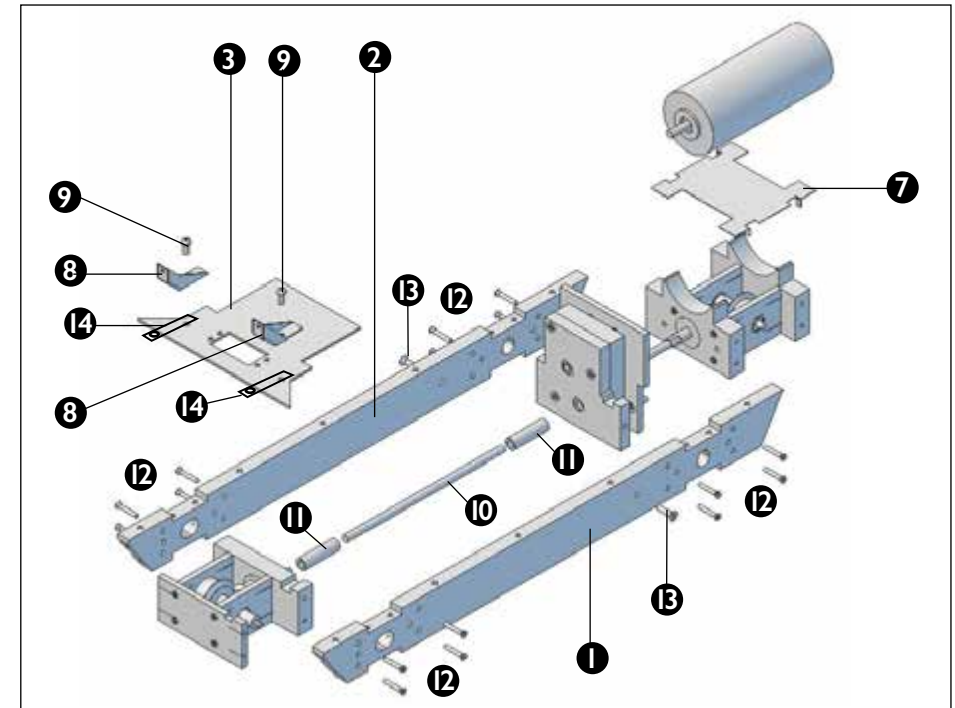
Tip:

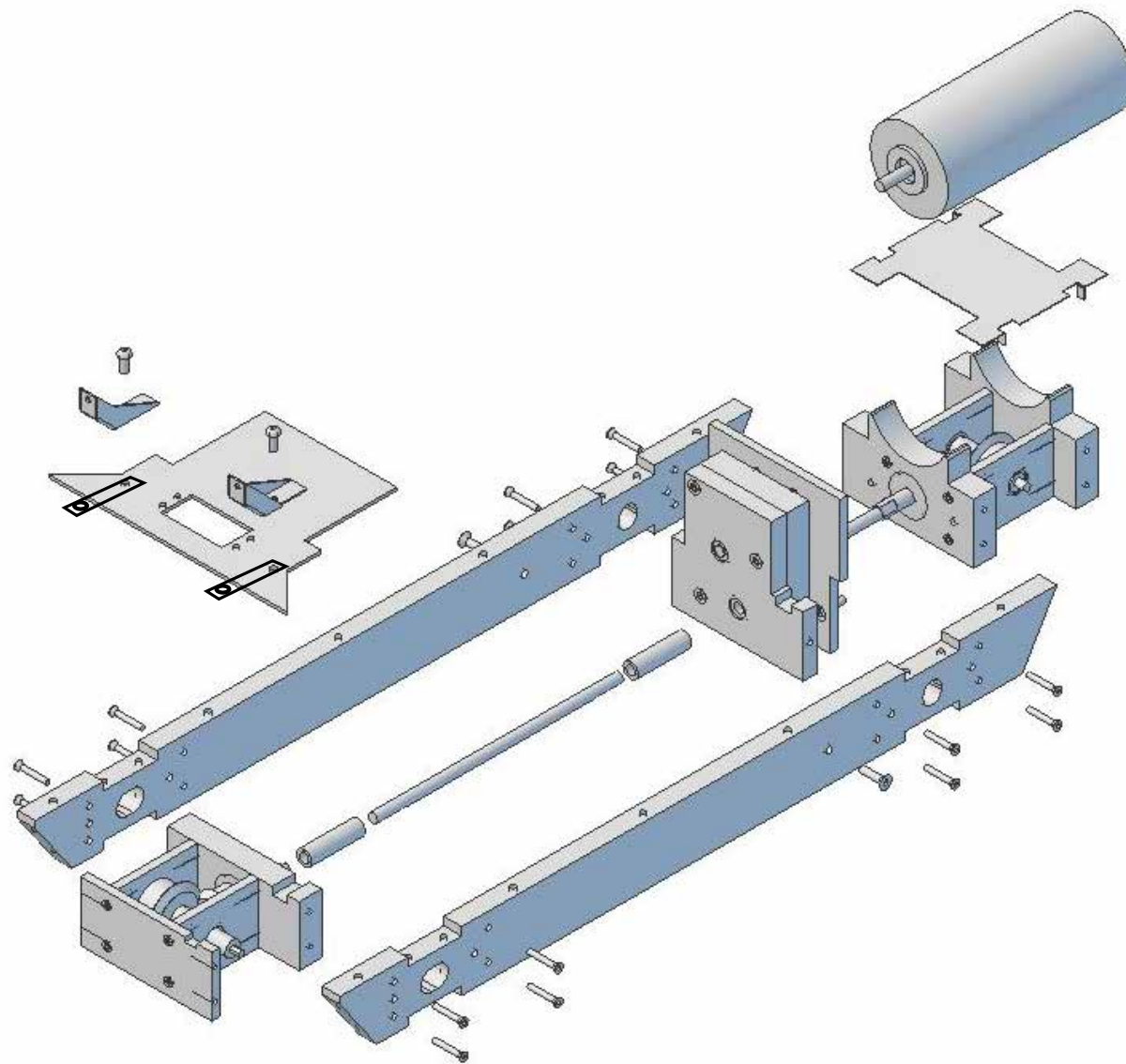
For the aluminum parts use sandpaper to take the sharp edges off and to roughen the surface for better painting.

Chassis

PACK 04

Chassis frame





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front suspension (right side)

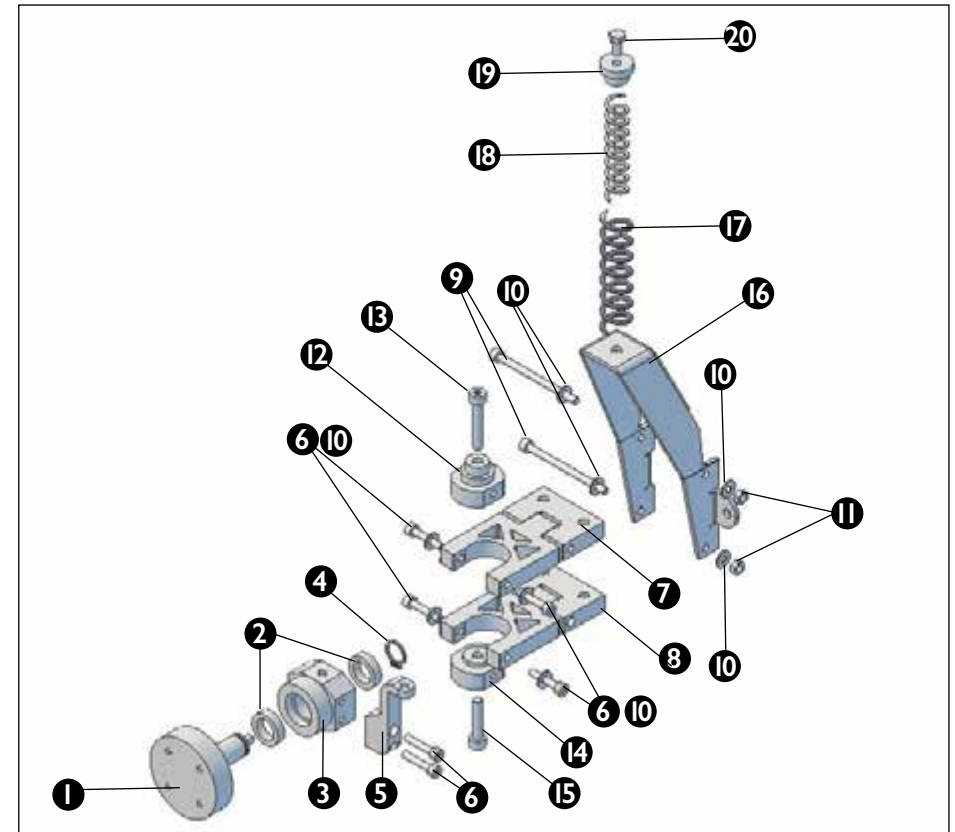
- | | | | |
|----|----|-------------------------|------------------------|
| 1 | 1x | stub axle | |
| 2 | 2x | bearing | 15x4mm |
| 3 | 1x | front hub | |
| 4 | 1x | wheel axle locking clip | |
| 5 | 1x | steering arm | |
| 6 | 6x | inner hex bolt | M3 x 16mm |
| 7 | 1x | upper wishbone | |
| 8 | 1x | lower wishbone | |
| 9 | 2x | inner hex bolt | M3x45mm |
| 10 | 8x | spacer ring | M3 |
| 11 | 2x | nut | M3 |
| 12 | 1x | upper pivot | |
| 13 | 1x | upper king pin | inner hex bolt M4x24mm |
| 14 | 1x | lower pivot | |
| 15 | 1x | lower king pin | inner hex bolt M4x19mm |
| 16 | 1x | suspension housing | |
| 17 | 1x | spring big | |
| 18 | 1x | spring small | |
| 19 | 1x | upper spring block | |
| 20 | 1x | bolt upper spring block | M4x10mm |

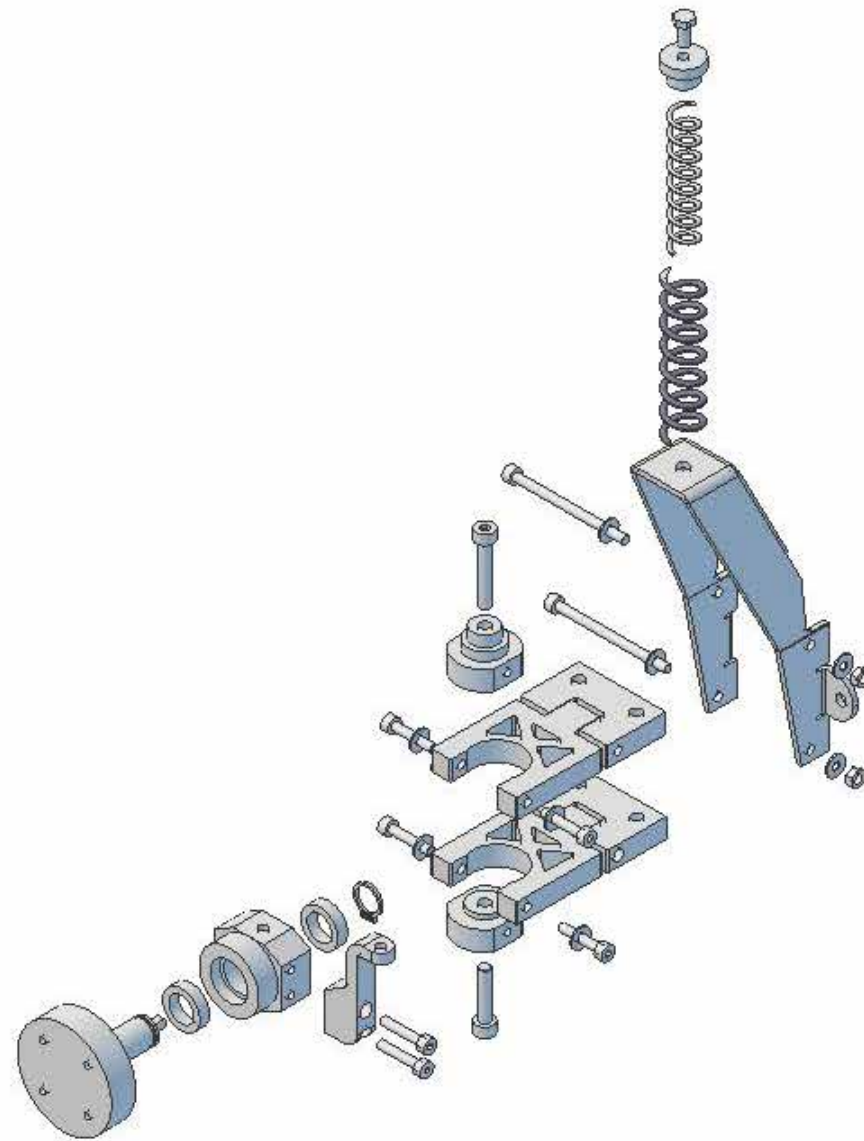
Tip: Use loctite, especially for all the moving parts.

Chassis

PACK 05

Front suspension (right side)





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front suspension (left side)

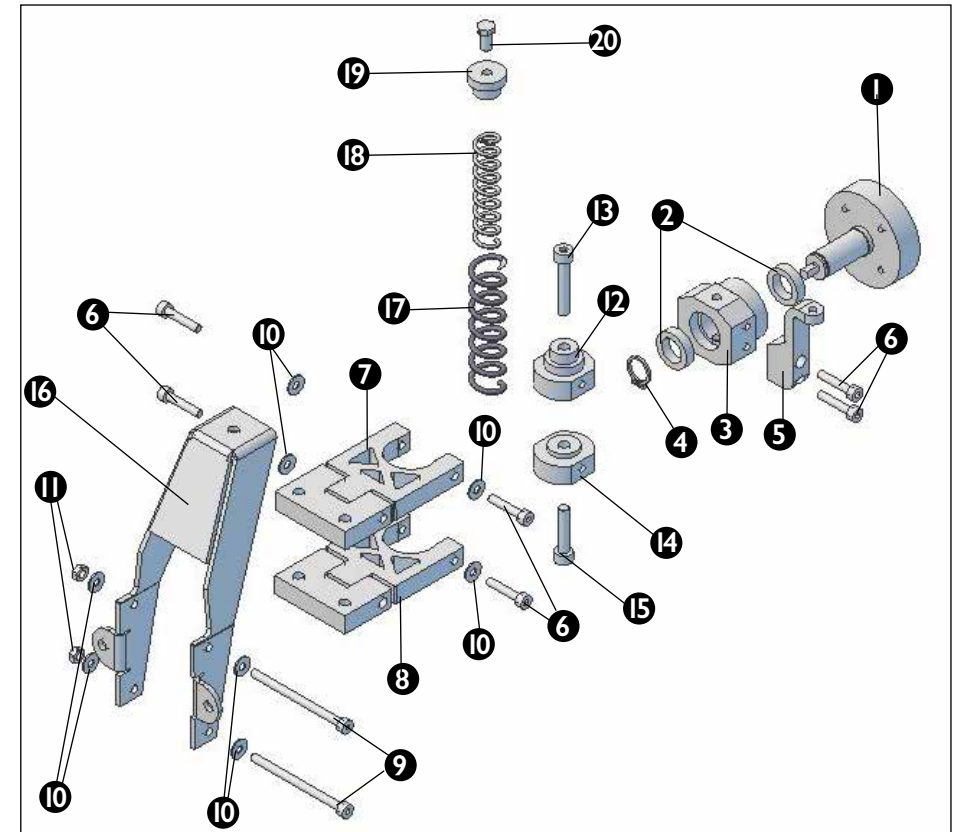
- | | | | |
|---|----|-------------------------|------------------------|
| ❶ | 1x | stub axle | |
| ❷ | 2x | bearing | 15x4mm |
| ❸ | 1x | front hub | |
| ❹ | 1x | wheel axle locking clip | |
| ❺ | 1x | steering arm | |
| ❻ | 6x | inner hex bolt | M3 x 16mm |
| ❼ | 1x | upper wishbone | |
| ❽ | 1x | lower wishbone | |
| ❾ | 2x | inner hex bolt | M3x45mm |
| ❿ | 8x | spacer ring | M3 |
| ⓫ | 2x | nut | M3 |
| ⓬ | 1x | upper pivot | |
| ⓭ | 1x | upper king pin | inner hex bolt M4x24mm |
| ⓮ | 1x | lower pivot | |
| ⓯ | 1x | lower king pin | inner hex bolt M4x19mm |
| ⓰ | 1x | suspension housing | |
| ⓱ | 1x | spring big | |
| ⓲ | 1x | spring small | |
| ⓳ | 1x | upper spring block | |
| ⓴ | 1x | bolt upper spring block | M4x10mm |

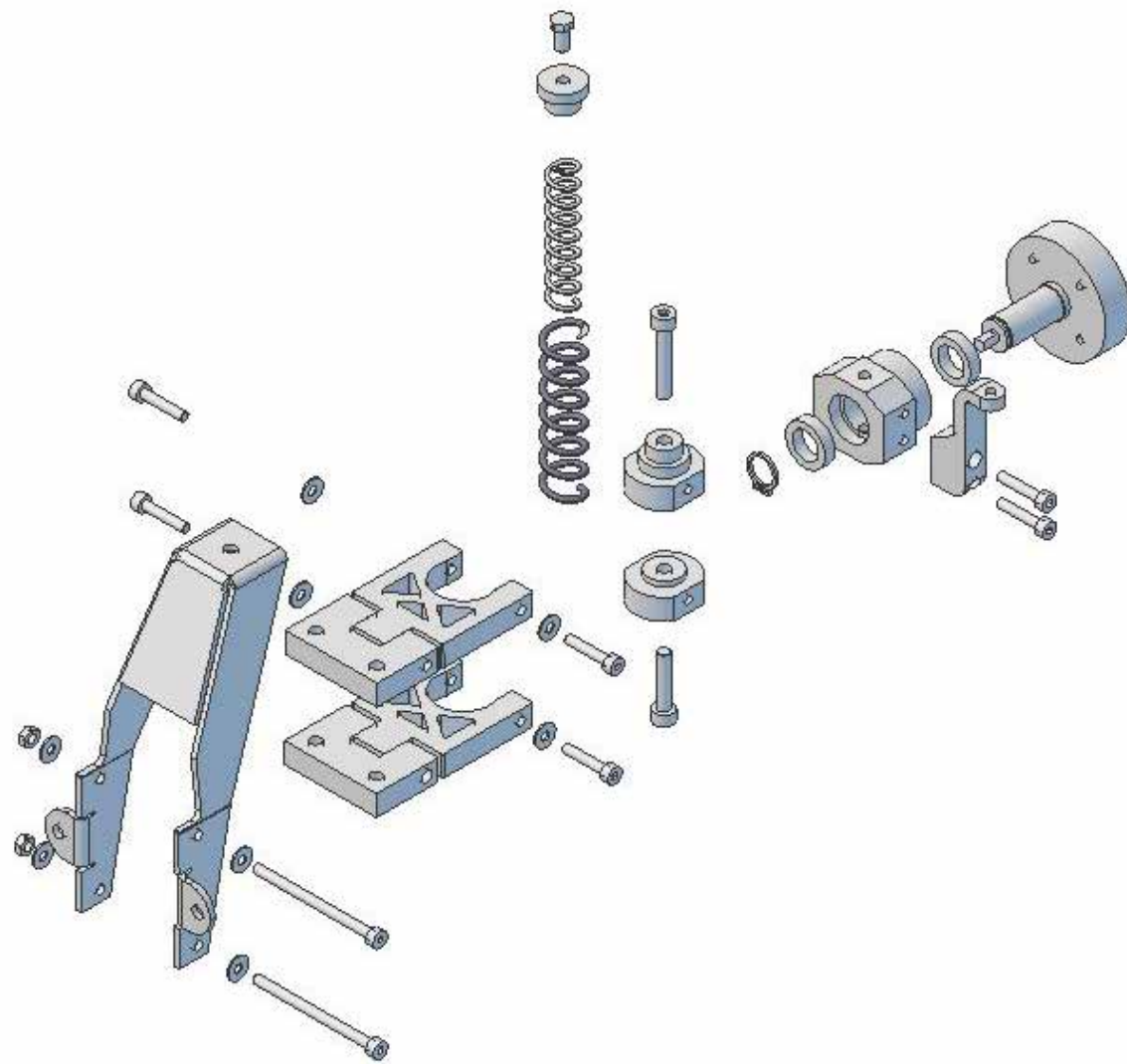
Tip: Use loctite, especially for all the moving parts.

Chassis

PACK 06

Front suspension (left side)





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Rear suspension (right side)

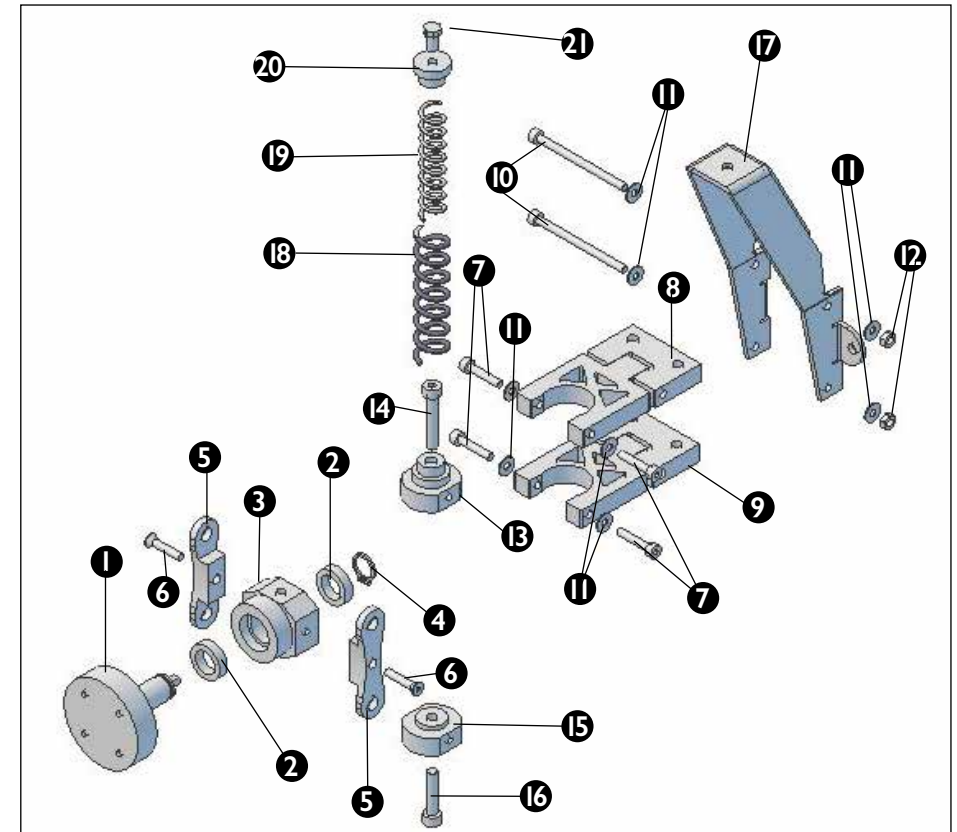
- | | | | |
|----|----|---------------------------------|------------------------|
| 1 | 1x | stub axle | |
| 2 | 2x | bearing | 15x4mm |
| 3 | 1x | rear hub | |
| 4 | 1x | wheel axle locking clip | |
| 5 | 2x | lock plate | |
| 6 | 2x | inner hex bolt countersunk head | M3x16mm |
| 7 | 4x | inner hex bolt | M3 x16mm |
| 8 | 1x | upper wishbone | |
| 9 | 1x | lower wishbone | |
| 10 | 2x | inner hex bolt | M3x45mm |
| 11 | 8x | spacer ring | M3 |
| 12 | 2x | nut | M3 |
| 13 | 1x | upper pivot | |
| 14 | 1x | upper king pin | inner hex bolt M4x24mm |
| 15 | 1x | lower pivot | |
| 16 | 1x | lower king pin | inner hex bolt M4x19mm |
| 17 | 1x | suspension housing | |
| 18 | 1x | spring big | |
| 19 | 1x | spring small | |
| 20 | 1x | upper spring block | |
| 21 | 1x | bolt upper spring block | M4x10mm |

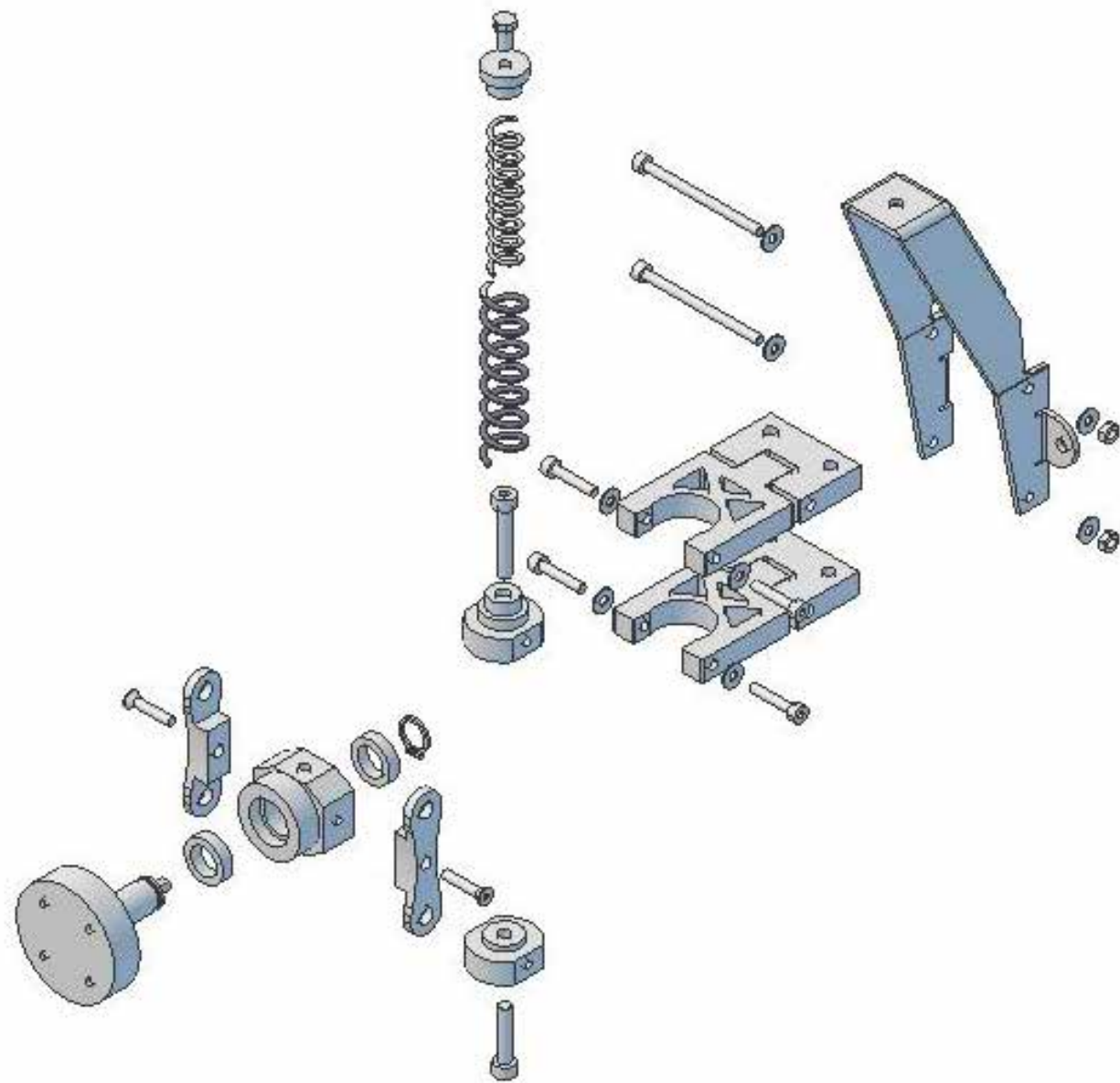
Tip: Use loctite, especially for all the moving parts.

Chassis

PACK 07

Rear suspension (right side)





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Rear suspension (left side)

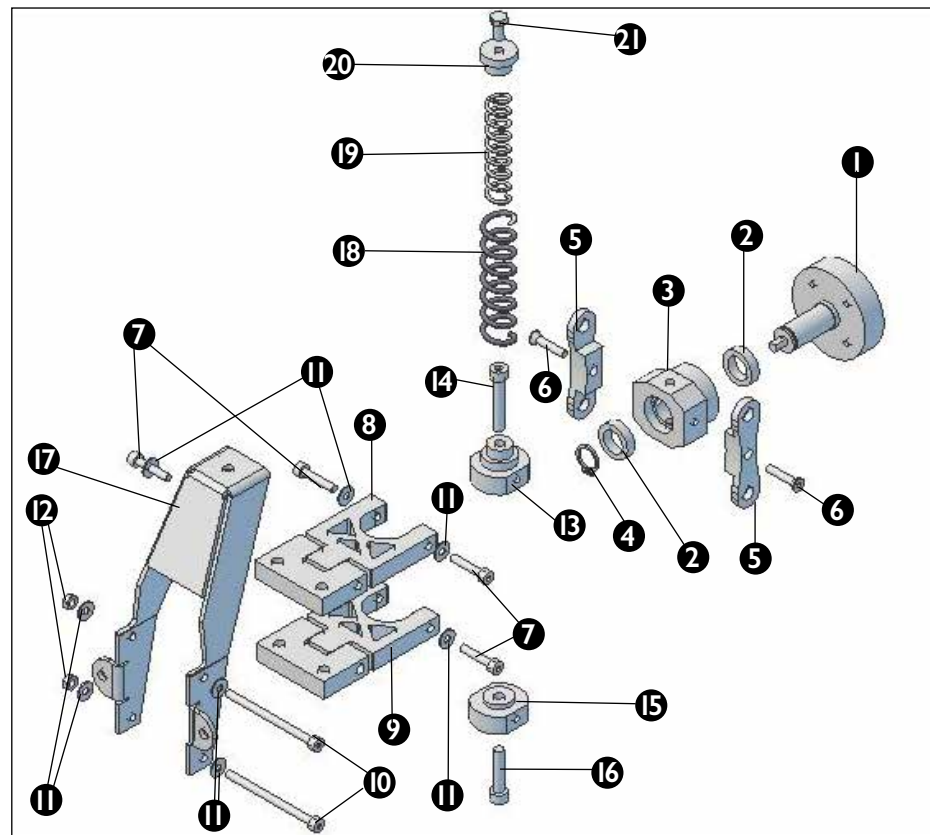
- | | | | |
|----|----|-----------------------------------------|------------------------|
| 1 | 1x | stub axle | |
| 2 | 2x | bearing | 15x4mm |
| 3 | 1x | rear hub | |
| 4 | 1x | wheel axle locking clip | |
| 5 | 2x | lock plate | |
| 6 | 2x | inner hex bolt countersunk head M3x16mm | |
| 7 | 4x | inner hex bolt | M3 x16mm |
| 8 | 1x | upper wishbone | |
| 9 | 1x | lower wishbone | |
| 10 | 2x | inner hex bolt | M3x45mm |
| 11 | 8x | spacer ring | M3 |
| 12 | 2x | nut | M3 |
| 13 | 1x | upper pivot | |
| 14 | 1x | upper king pin | inner hex bolt M4x24mm |
| 15 | 1x | lower pivot | |
| 16 | 1x | lower king pin | inner hex bolt M4x19mm |
| 17 | 1x | suspension housing | |
| 18 | 1x | spring big | |
| 19 | 1x | spring small | |
| 20 | 1x | upper spring block | |
| 21 | 1x | bolt upper spring block | M4x10mm |

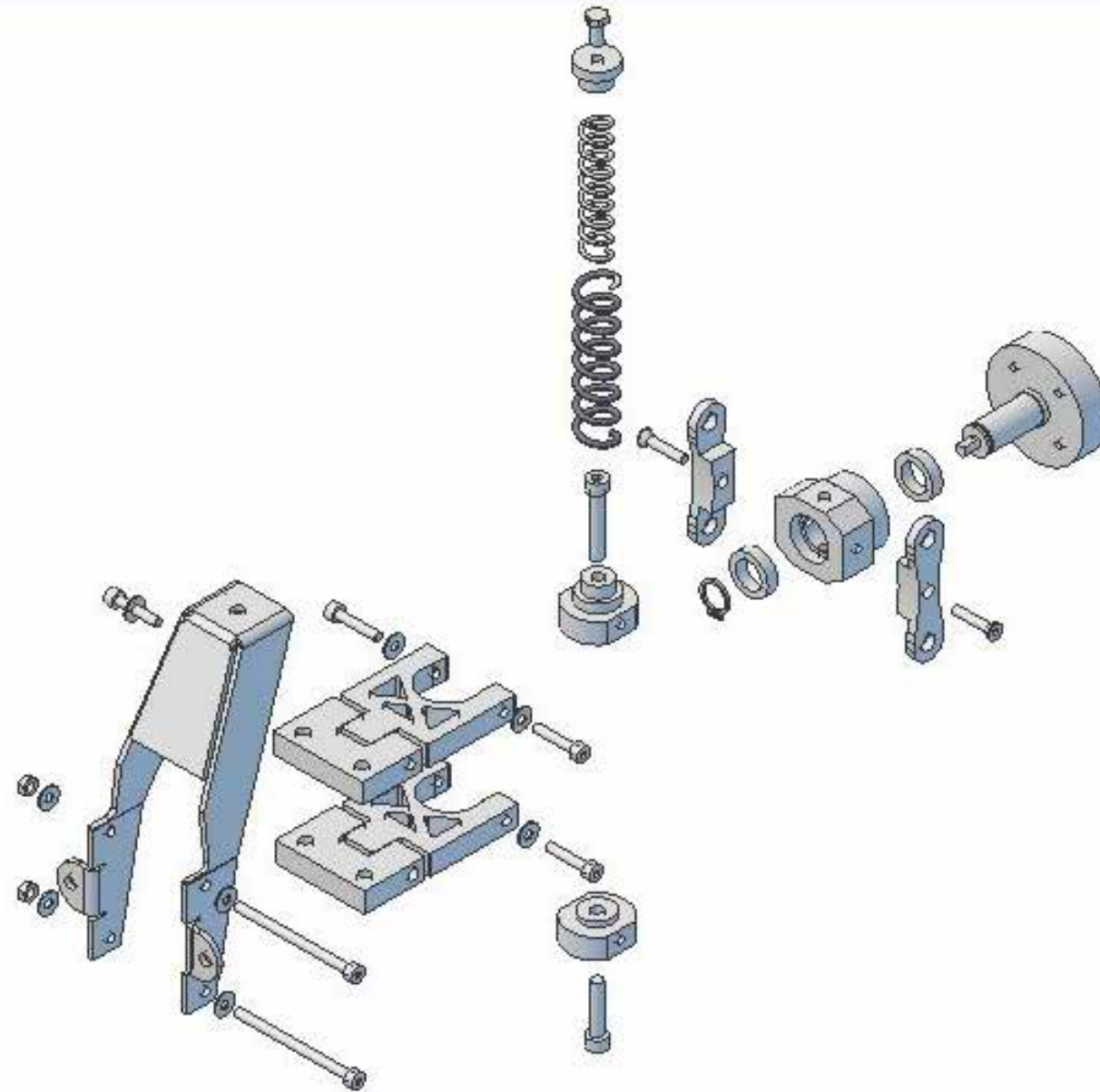
Tip: Use loctite, especially for all the moving parts.

Chassis

PACK 08

Rear suspension (left side)





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Suspension mounting set

- ❶ pack 4 chassis frame (servo not shown in drawing)
- ❷ pack 5 front suspension (right side)
- ❸ pack 6 front suspension (left side)
- ❹ pack 7 rear suspension (right side)
- ❺ pack 8 rear suspension (left side)
- ❻ 4x drive shaft assembly (see picture inside for assembly)
- ❼ 16x inner hex bolt countersunk head M4x16mm
- ❽ 8x inner hex truss head bolt M4x10mm
- ❾ 1x steering rod set (not shown in drawing)
 - steering rod long
 - steering rod short
 - ball joint (4x)
 - inner hex bolt M3x12mm (2x)
 - inner hex bolt M3x20mm (1x)
 - nut M3 (3x)

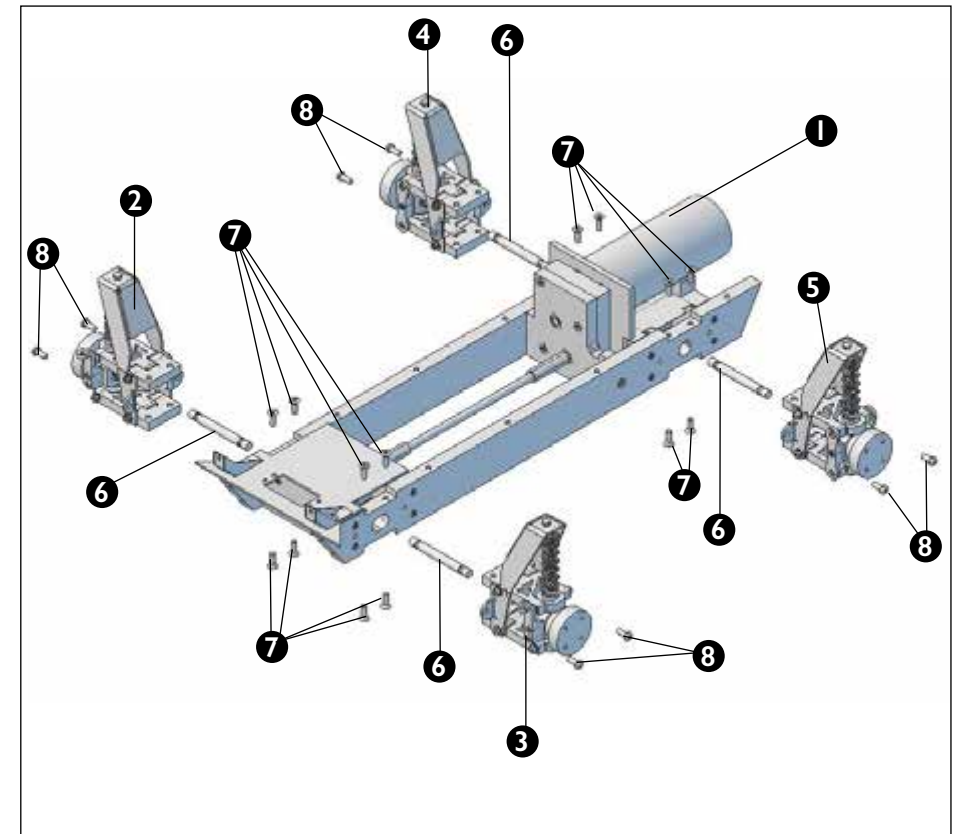
Look on the inside:

How to fabricate the drive shafts and steering rod assembly

Chassis

PACK 09

Suspension mounting set



6 4x drive shaft assembly

connect to axle thick
long (nr 4 in pack 01
+ pack 02)



connect



connect to
stub axle



9 steering rod assembly



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Wheel mounting set

- ❶ 4x tyre
- ❷ 4x rim
- ❸ 16x inner hex bolt M3x16mm
- ❹ 4x wheel cover
- ❺ 4x wheel cover bolt M3x16

Tire mounting tool (not shown in drawing)

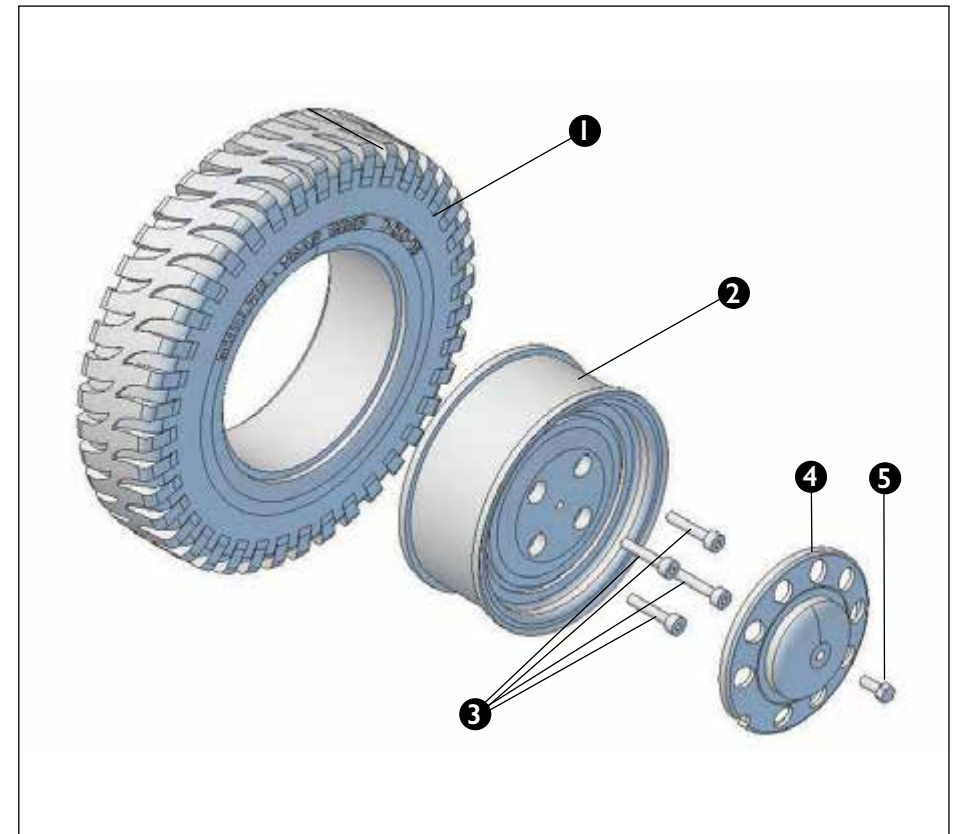
Look inside for mounting tyre on rim.

Tip: clean up wheel cover ❹ and make fit in rim before assembling of the wheelset.

Chassis

PACK 10

Wheel set





Rim + mounting tool + tire

Place mounting tool
on front of the rim



Place the tire on the mounting
tool and push it over the rim.



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Hatch / door set

- ❶ 1x front hatch small
- ❷ 1x front hatch large
- ❸ 1x rear hatch
- ❹ 2x side hatch
- ❺ 1x door
- ❻ 1x doorlock inside (lock bolt to be fabricated from brass rod/strip)
- ❼ 4x hinge long (two parts composed with hinge tool)
- ❽ 9x hinge short (two parts composed with hinge tool)
- ❾ 56x brass round head bolts M1,6x10mm
- ❿ 56x brass nut (not shown in drawing) M1,6
- ⓫ 1x hinge tool large (not shown in drawing)
- ⓬ 1x hinge tool small (not shown in drawing)
- ⓭ 1x drill 1,2mm (not shown in drawing)
- ⓮ 1x drill 1,6mm (not shown in drawing)

Look on the inside:

How to fabricate the hinges with the supplied hinge tool and drill and fabrication of the lock bolt.

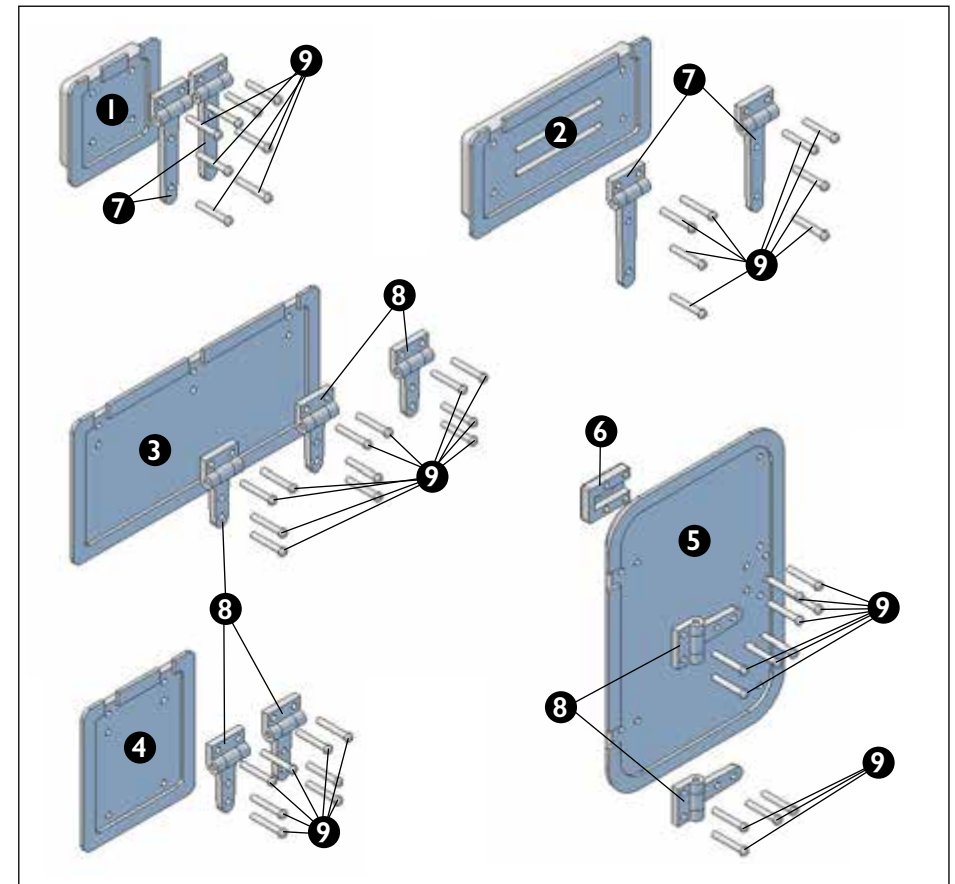
Do not tighten hing bolts.

In a later stage (pack 12) there will be hinge levers added.

Hull

PACK II

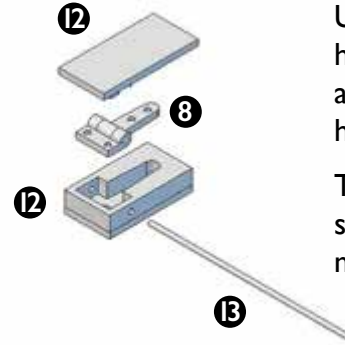
Hatch/door set



Use the 1,6 mm drill to open clogged holes in hatches and hinges.



Use file to make the hinge parts fit.



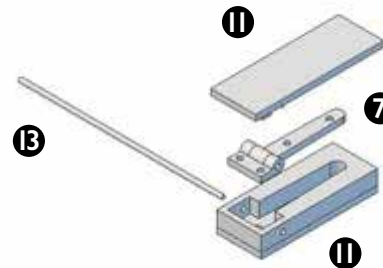
Place hinge parts in hinge tool.

Use drill 1,2 mm to drill a hole through both hinge parts. Clean the drill repeatedly while drilling at low speed to avoid clogging of the drill and drill hole.

Tip: Glue small nail in hole (put glue only on one side). Be carefull with glue and check if hinge still moves.



Use file to make the hinge parts fit.

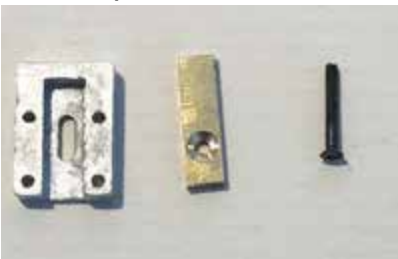


Place hinge parts in hinge tool.

Use drill 1,2 mm to drill a hole through both hinge parts. Clean the drill repeatedly while drilling at low speed to avoid clogging of the drill and drill hole.

Tip: Glue small nail in hole (put glue only on one side). Be carefull with glue and check if hinge still moves.

Make parts fit.



Glue countersunk bolt M1,4 in brass part and let glue dry.



Put lock together. Check the motion of the bolt lock.



Lock on door



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Hatch lever set

- ❶ 2x hatch lever set
- ❷ 15x inner hex bolt countersunk head M2x6mm
- ❸ 18x nut M2
- ❹ 10x brass round head bolts M1,6x10mm (for mounting on hull)
- ❺ 10x brass nut M1,6 (for mounting on hull)

Look on the inside:

How to fabricate the levers.

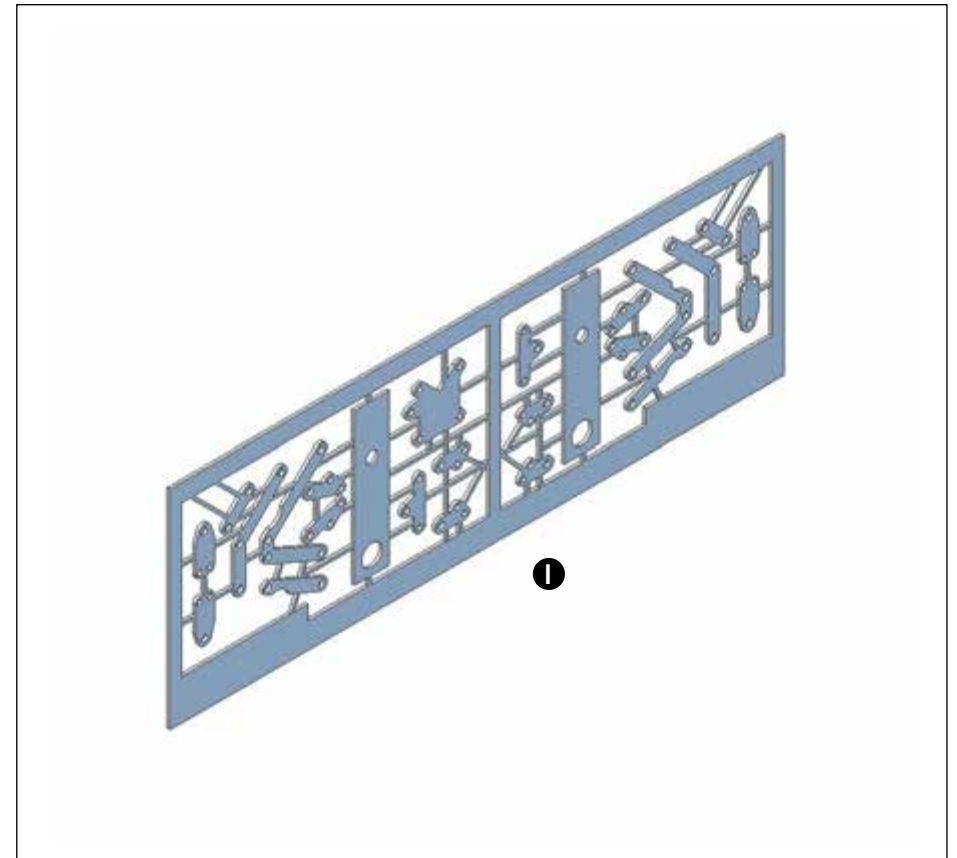
Tip:

After fabrication of the levers and hatches, glue/loctite nuts and bolts for fixation.

Hull

PACK 12

Hatch lever set

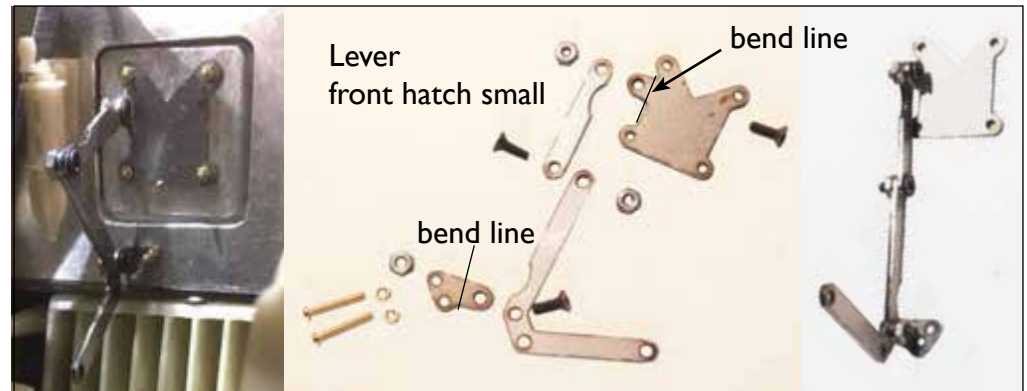
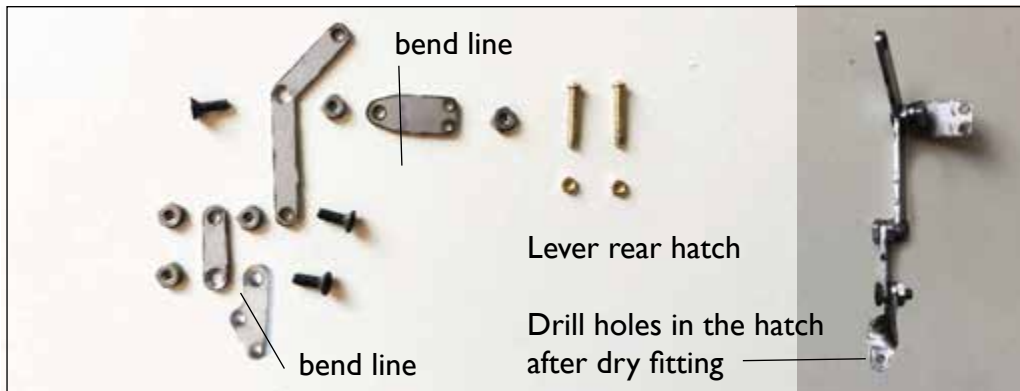
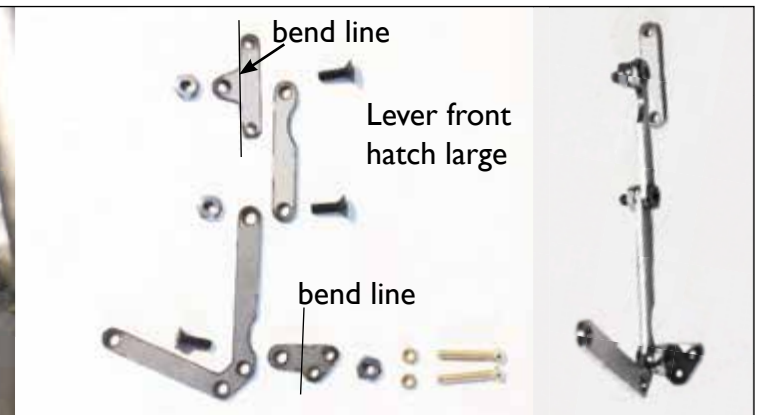
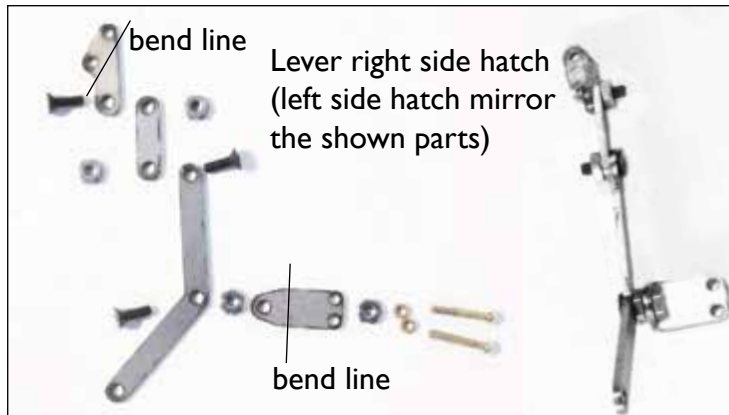
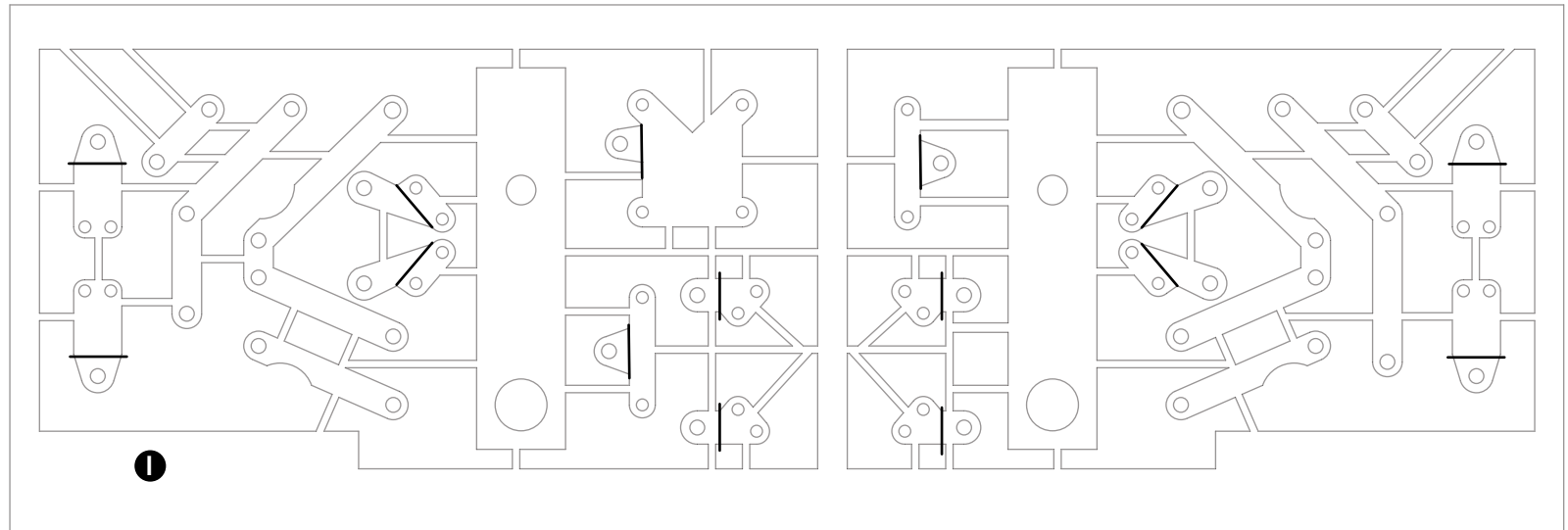


Tip:

Draw scratch markings for bending (black lines in drawing). Redrill small holes with 1,6mm drill before cutting parts out of the set.

Bend small parts 90° as shown in drawing.

Use (Gorilla) glue to fixate M2 nuts when levers are fabricated, check movement in levers.



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Hull left side (door)

- ❶ 1x hull left side
- ❷ 1x front left fender (with 3x bolt countersunk head M3x8mm and nut)
- ❸ 1x rear left fender (with 2x bolt countersunk head M3x8mm and nut)
- ❹ 1x toolbox left rear fender (drill two 3mm holes in toolbox for bolt countersunk head M3x6mm and nut and hex bolt M3x6mm and nut)
- ❺ 1x door (pack 11)
- ❻ 1x side hatch (pack 11) with lever (pack 12)
- ❼ 2x lift hook (with 6x hex bolt M2x6mm and nut)
- ❽ 1x antenna base (with 1x bolt countersunk head M3x10mm)
- ❾ 1x roof rail front (with 3x bolt countersunk head M2x5mm and nut)
- ❿ 1x roof rail rear (with 3x bolt countersunk head M2x5mm and nut)
- ⓫ 1x base roof mechanism (1x bolt countersunk head M2x10mm and 1x bolt countersunk head M2x5mm)

Look for bigger drawing on the inside.

Notice:

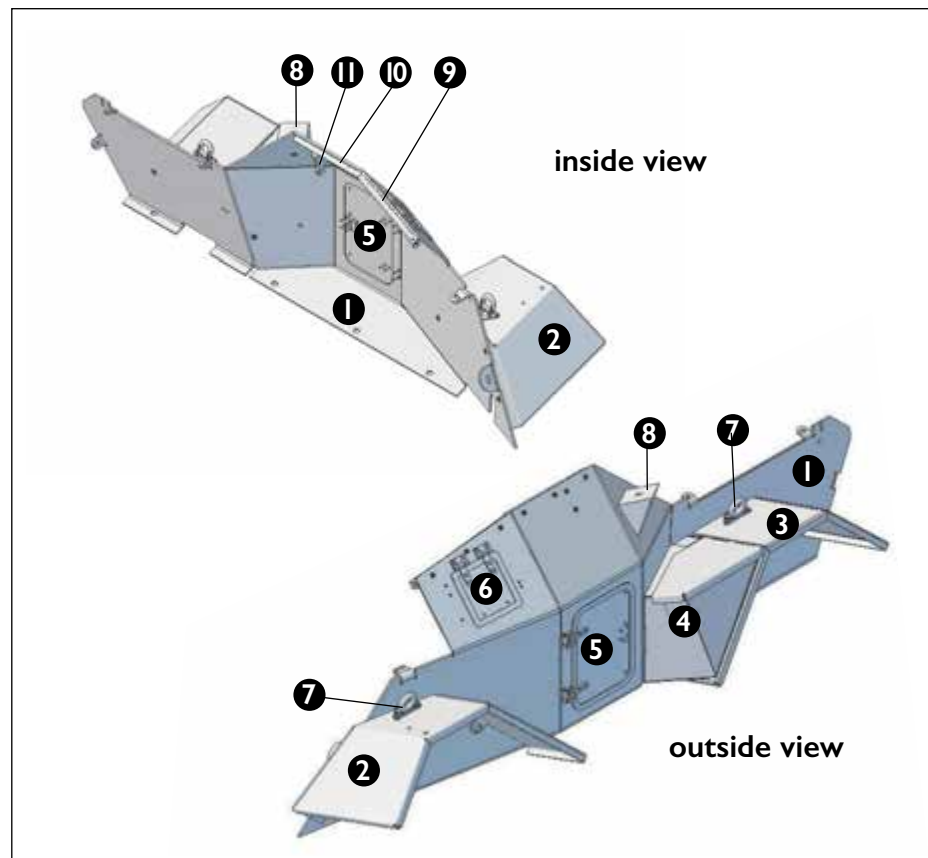
For bending with pliers use the markings on roofrail parts.

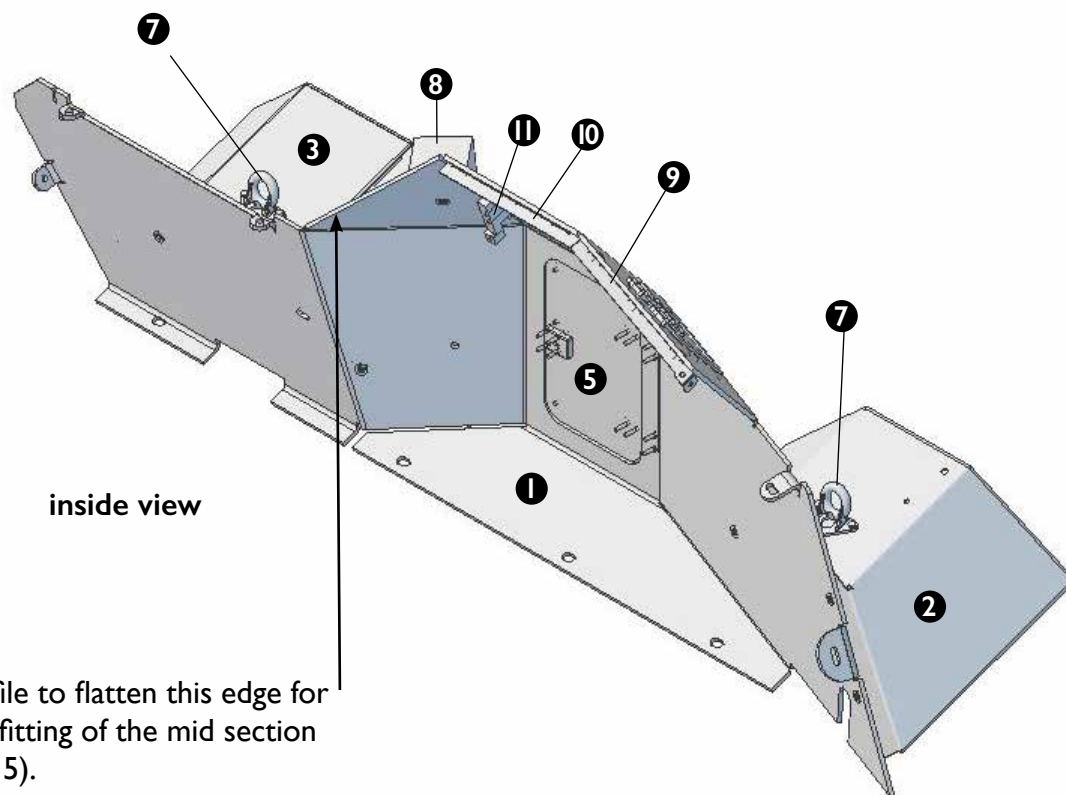
Drill 3mm holes in the toolbox ❹ for mounting to body and fender; after mounting, glue strip in place.

Hull

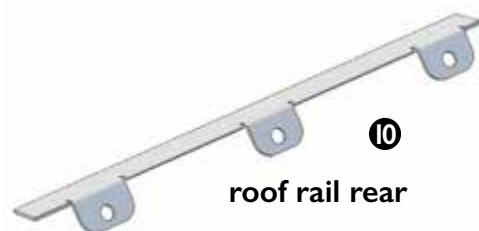
PACK 13

Hull left side (door)

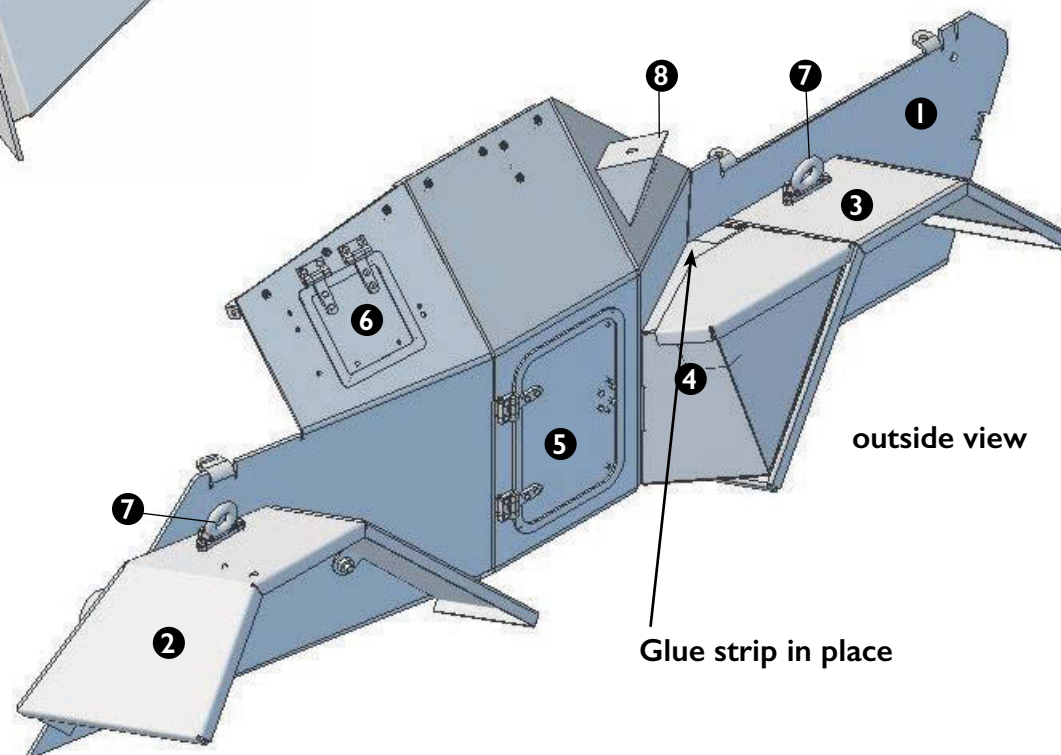




roof rail front



roof rail rear



outside view

Glue strip in place

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Hull right side

- ❶ 1x hull right side
- ❷ 1x front right fender (with 3x bolt countersunk head M3x8mm and nut)
- ❸ 1x rear right fender (with 2x bolt countersunk head M3x8mm and nut)
- ❹ 1x toolbox right rear fender drill two 3mm holes in toolbox for bolt countersunk head M3x6mm and nut and hex bolt M3x6mm and nut)
- ❺ 1x toolbox right middle (drill two 3mm holes in hull and toolbox for 2x bolt countersunk head M3x6mm and nut)
- ❻ 1x side hatch (pack 11) with lever (pack 12)
- ❼ 2x lift hook (with 6x hex bolt M2x10mm and nut)
- ❽ 1x antenna base (with 1x bolt countersunk head M3x10mm)
- ❾ 1x roof rail front (with 3x bolt countersunk head M2x5mm and nut)
- ❿ 1x roof rail rear (with 3x bolt countersunk head M2x5mm and nut)
- ⓫ 1x base roof mechanism (1x bolt countersunk head M2x10mm and 1x bolt countersunk head M2x5mm)

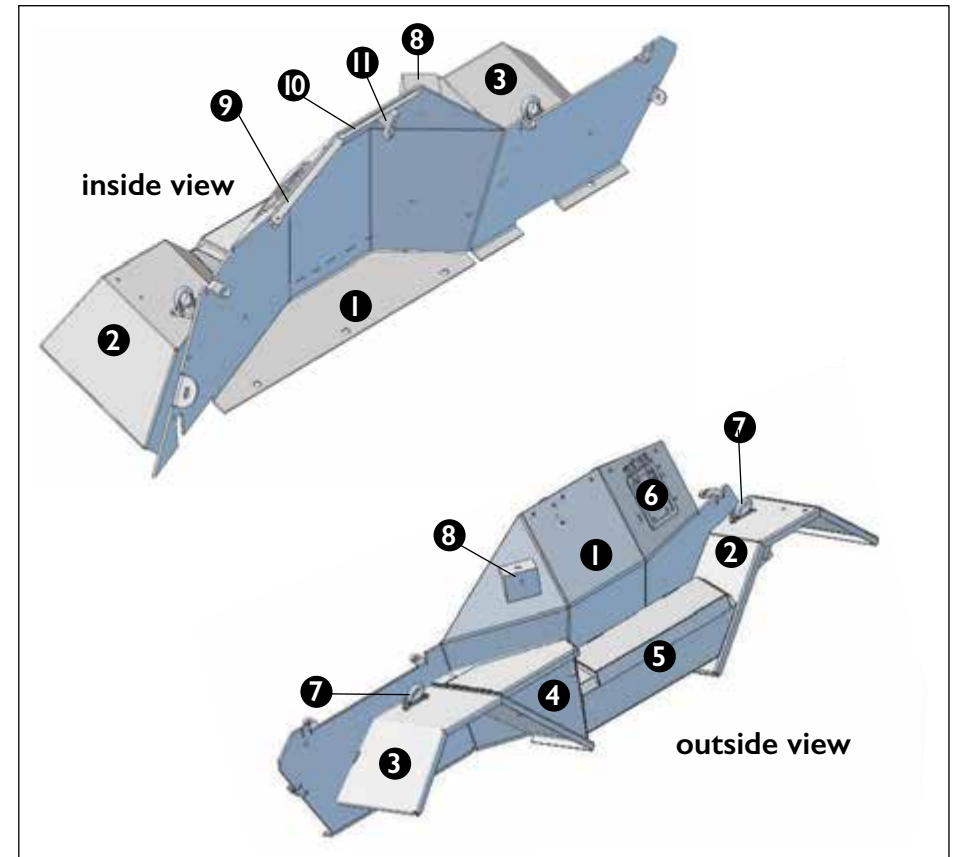
Look for bigger drawing on the inside.

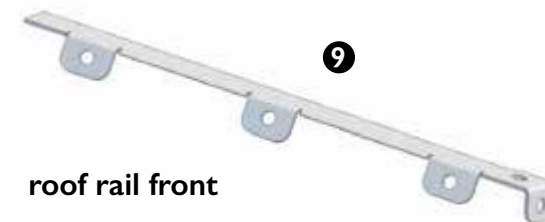
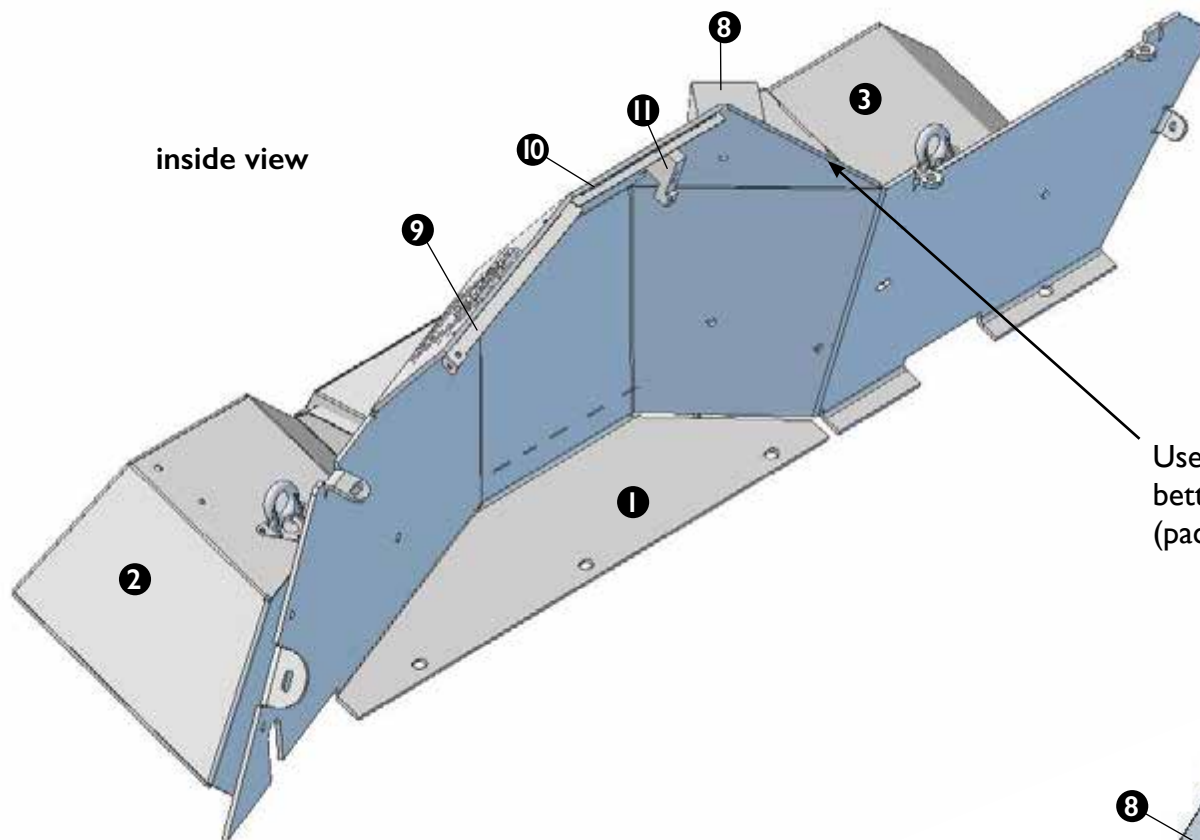
Notice: For bending with pliers use the markings on roofrail parts.
Drill 3mm holes in the toolbox ❹ and ❺ for mounting to body and fender, after mounting, glue strip in place.

Hull

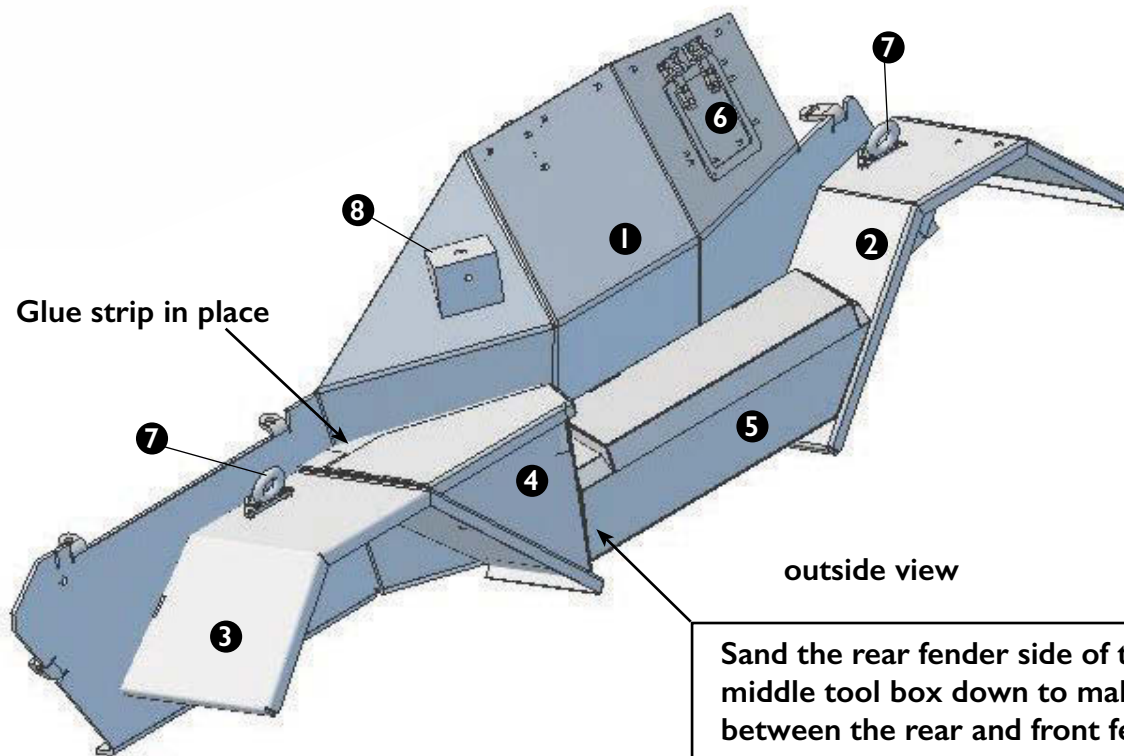
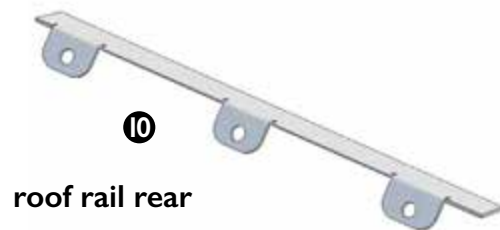
PACK 14

Hull right side





Use a file to flatten this edge for better fitting of the mid section (pack 15).



Glue strip in place

Sand the rear fender side of the middle tool box down to make it fit between the rear and front fender.

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Mid section hull

- ❶ 1x mid section hull
- ❷ 1x rear hatch (pack 11) with lever (pack 12)
- ❸ 2x inner hex bolt countersunk head M3x8mm (for mounting into hull)
- ❹ 2x nut M3 (for mounting into hull)
- ❺ 2x roof bracket mount (glue in later stage (pack 26))
- ❻ 6x inner hex bolt countersunk head M4x12mm (for mounting hull on chassis)
- ❼ 2x adapter tube for fitting rear side hull on chassis (not shown in drawing)
 - 2x inner hex bolt M4x25mm
 - 2x spacer ring M4

Look for bigger drawing on the inside.

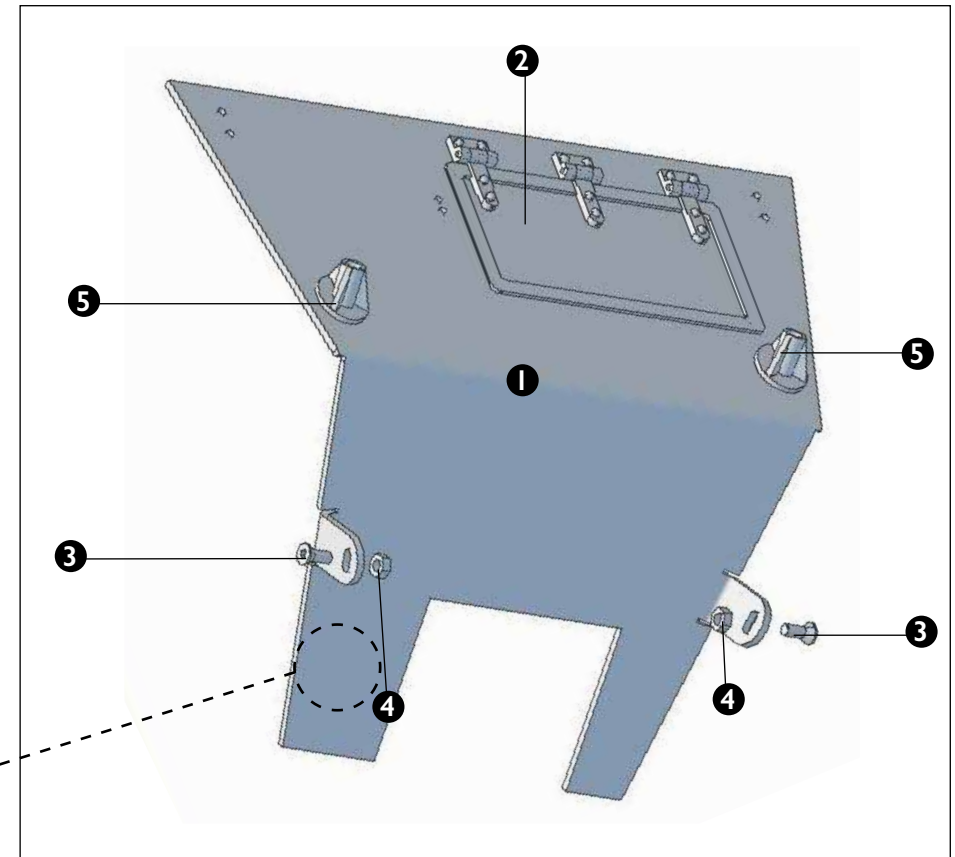
Notice: For building hull, temporarily mount (loosely) left and right side hull with countersunk M4x12mm bolts ❻ on chassis for better alignment of all the hull parts. DO NOT TIGHTEN THESE 6 BOLTS, THE THREAD IN THE CHASSIS MAYBE DAMAGED BY THIS!

Decide now if and where to make a hole/opening for wiring/connector speedcontroller which can be mounted behind the petrol tank ??!

Hull

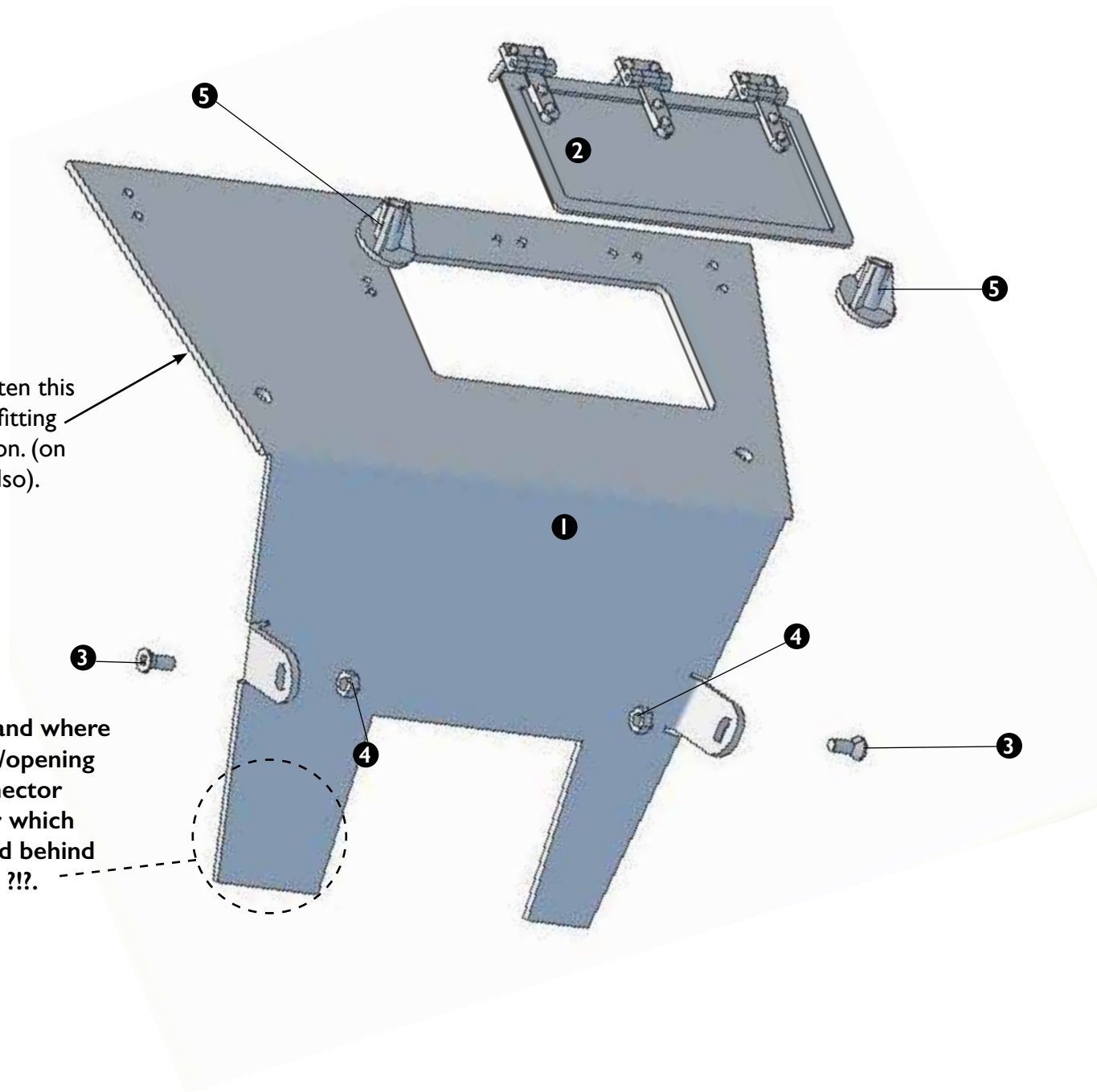
PACK 15

Mid section hull



Use a file to flatten this edge for better fitting of the mid section. (on the other side also).

Decide now if and where to make a hole/opening for wiring/connector speedcontroller which can be mounted behind the petrol tank ???.



7 adapter tube for fitting rear side hull on chassis, inner hex bolt M4x25mm, spacer ring M4.



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Radiator grill

- ❶ 8x radiator grill plates (different shapes and sizes)
- ❷ 3x inner hex bolt countersunk head M3x30mm
- ❸ 23x nut M3 (incl. 2 for mounting into hull)
- ❹ 21x spacer ring M3
- ❺ 2x inner hex bolt countersunk head M3x8mm (for mounting into hull)

Look for bigger drawing on the inside.

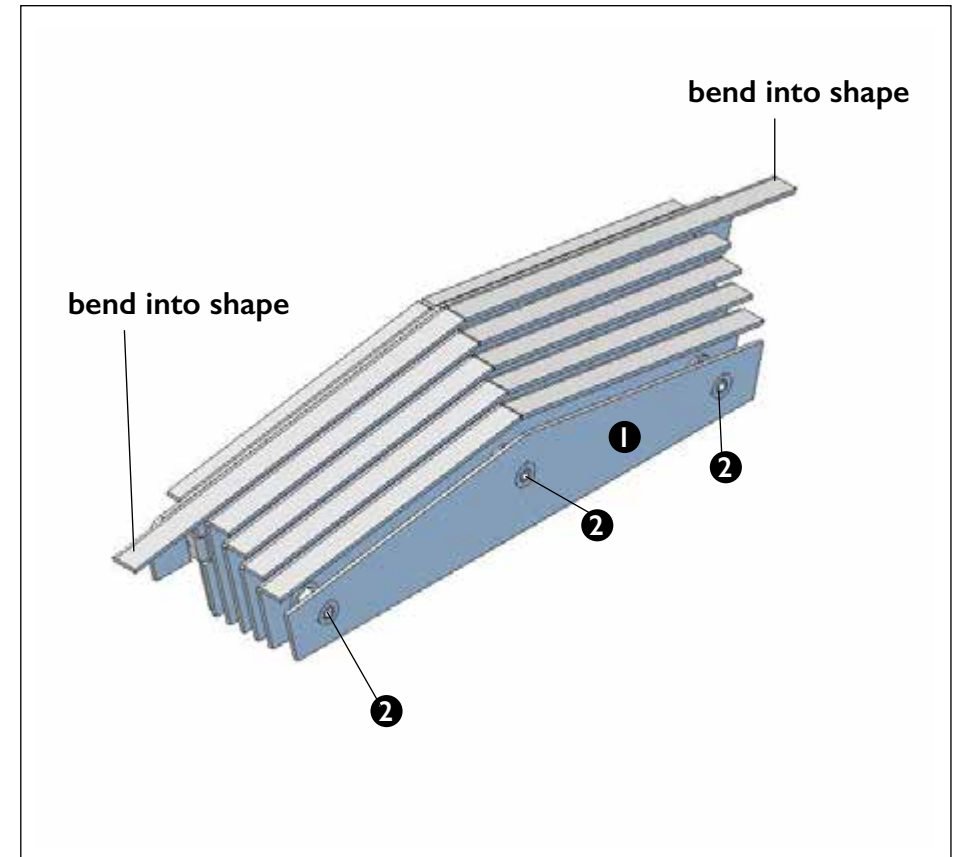
Tip:

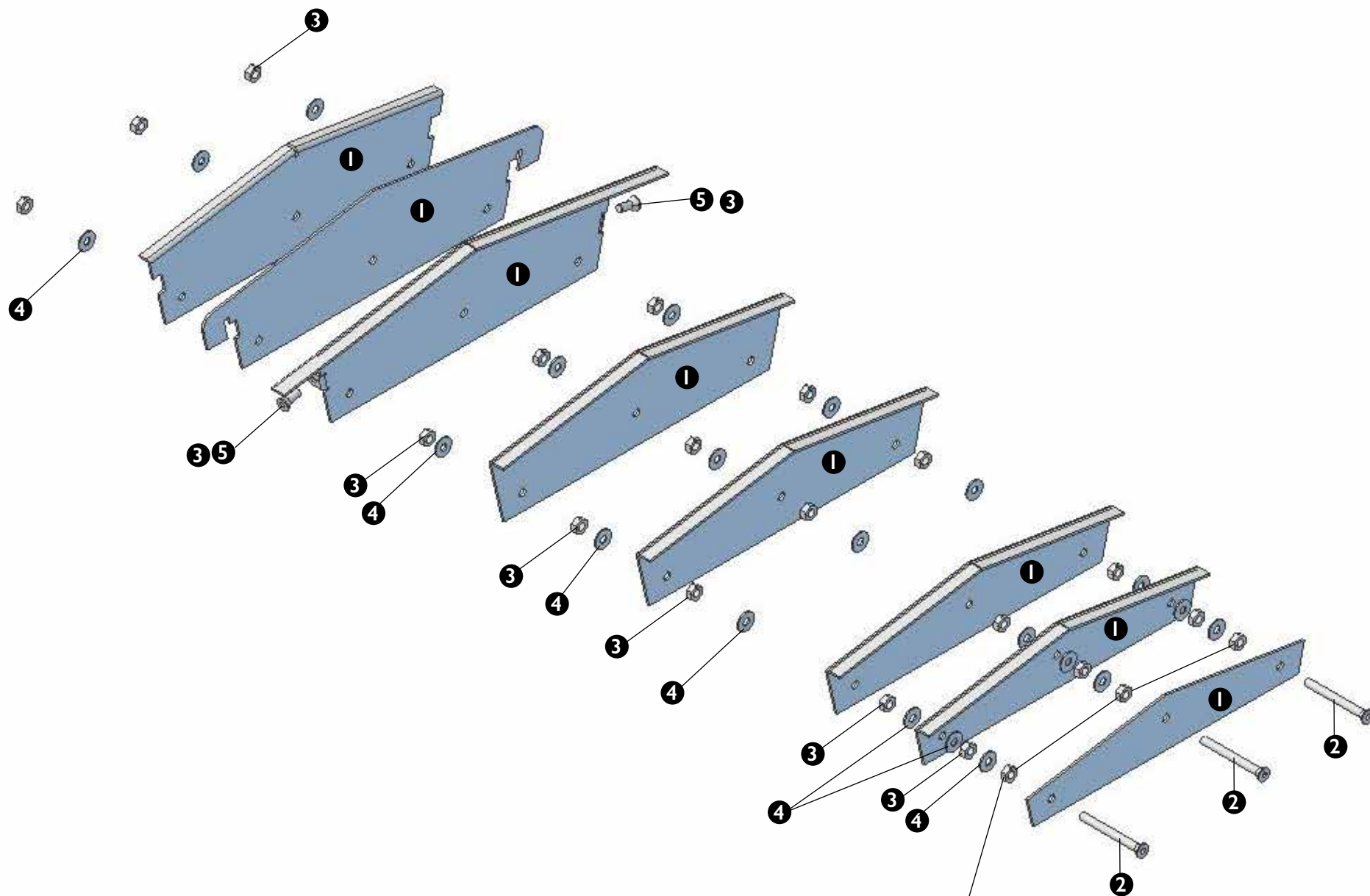
Use the build radiator grill for fitment of the bonnet (to bend the bonnet into shape) before mounting into hull.

Hull

PACK 16

Radiator grill (rear)





Tip: countersink first m3 nuts for tight fitment **3**

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front armour plate

- ❶ 1x large armour plate
- ❷ 1x small armour plate
- ❸ 1x bren hatch top
- ❹ 1x bren hatch bottom
- ❺ 1x front hatch large (pack 11) with lever (pack 12, not shown in drawing)
- ❻ 1x front hatch small (pack 11) with lever (pack 12, not shown in drawing)
- ❼ 2x hinge part bren hatch
- ❽ 2x hinge part with lock bolt (to be fabricated from brass rod/strip)
- ❾ 4x inner hex bolt countersunk head M2x12mm
- ❿ 1x brace bren hatch
- ⓫ 18x brass round head bolts M1,6x10mm
- ⓬ 18x brass nut (not shown in drawing) M1,6

Look for bigger drawing on the inside.

Notice:

Use file to make bren hatches sides fit in armour plates.

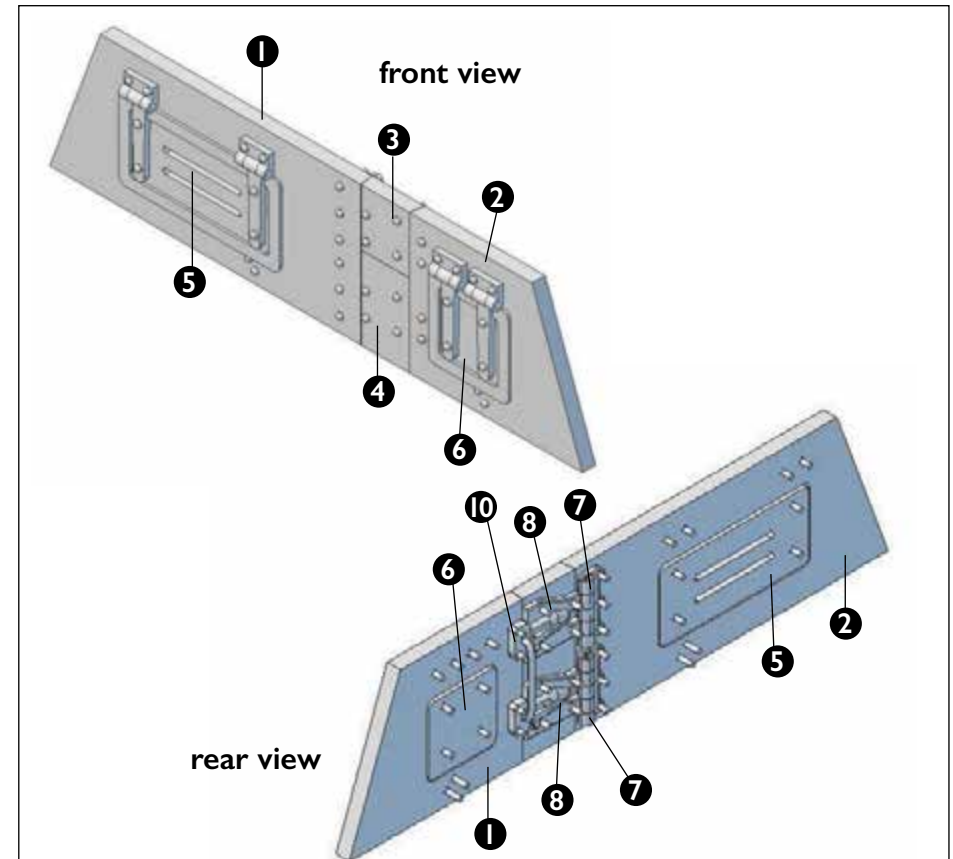
Tip: Mount front armour plate ❶ and ❷ on front plate (pack 18) for exact fitting bren hatches.

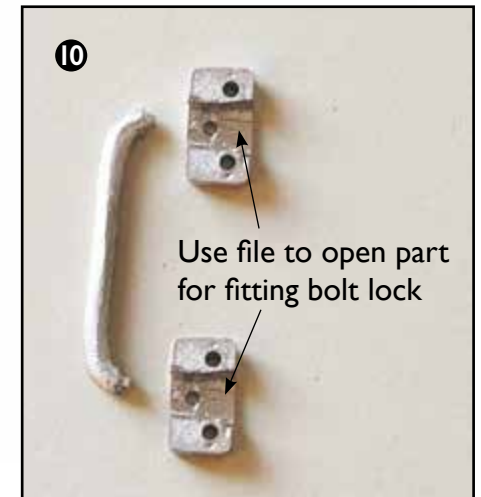
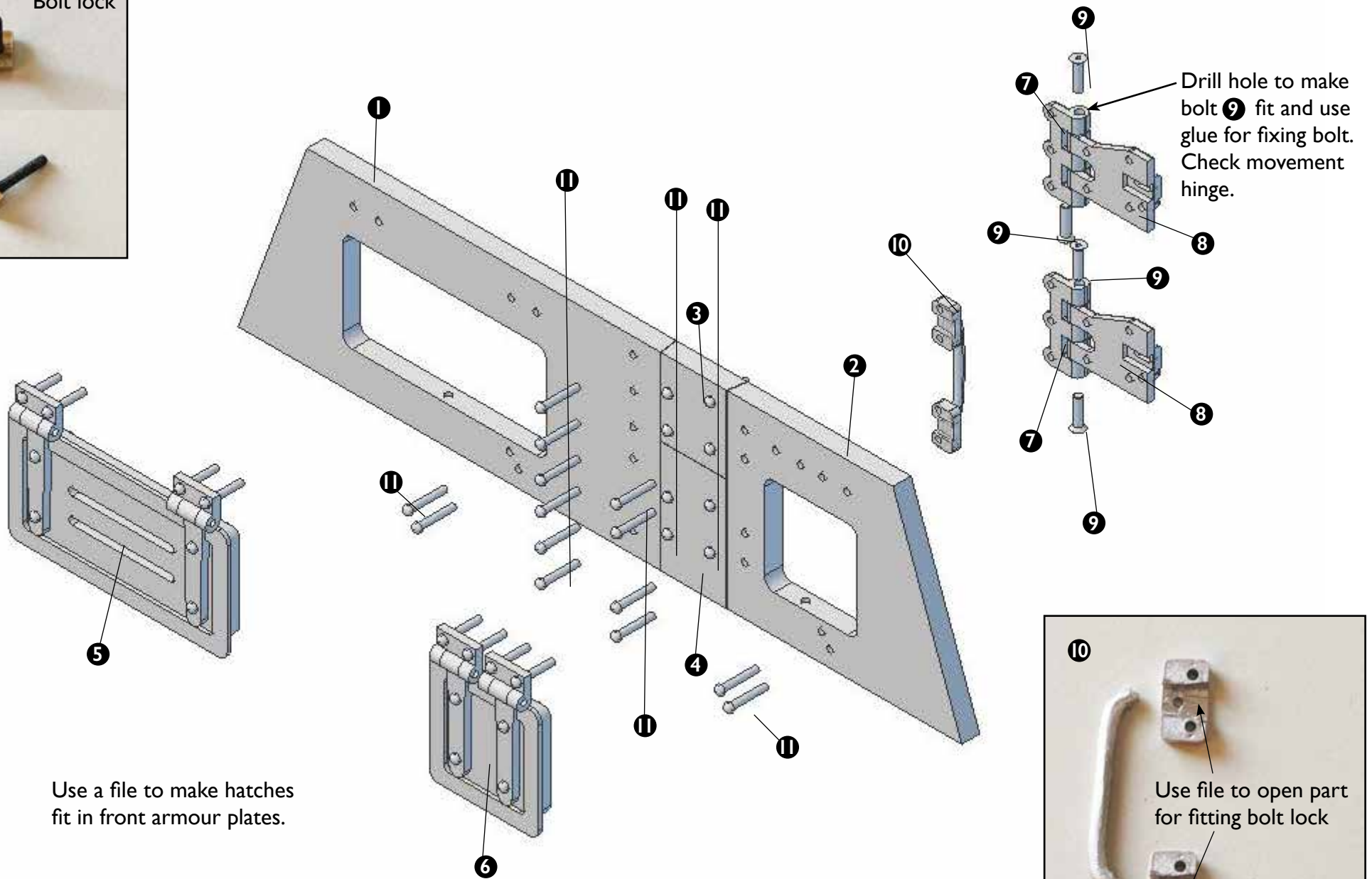
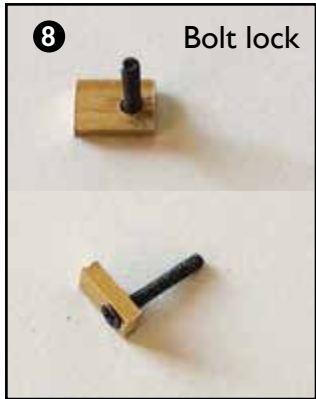
For the aluminium parts use sandpaper to take the sharp edges off and to roughen the surface for better painting.

Hull

PACK 17

Front armour plate





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front plate

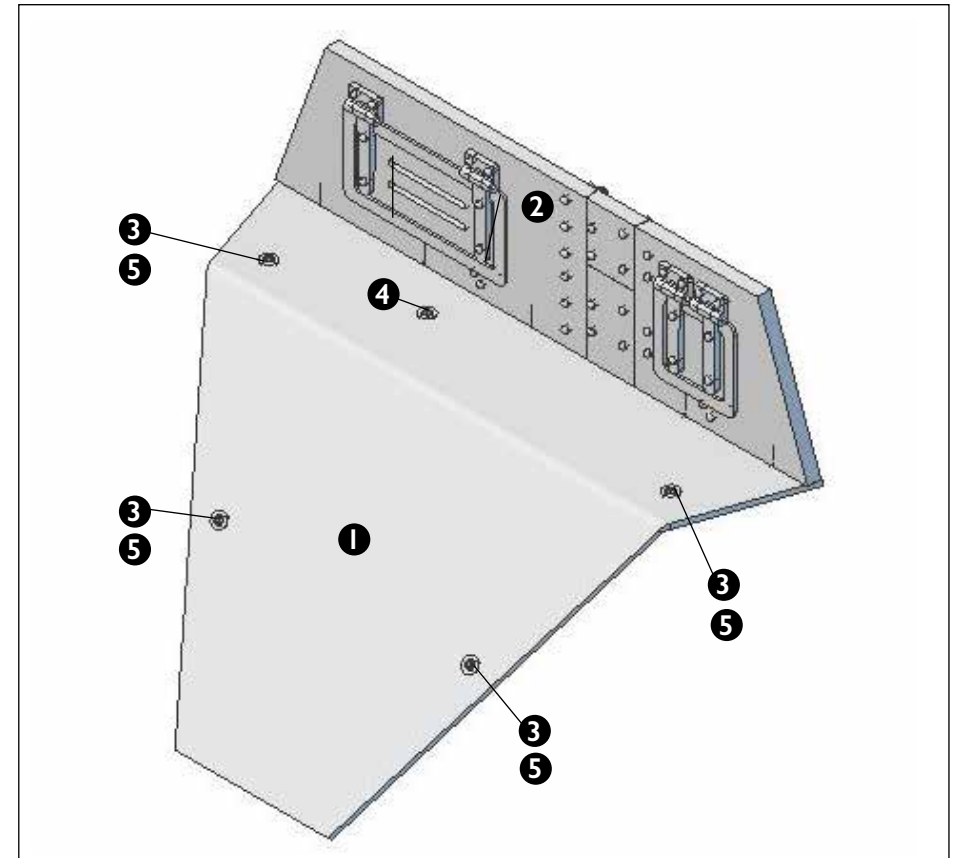
- ❶ 1x front plate
- ❷ 1x front armour plate (pack 17)
- ❸ 9x inner hex bolt countersunk head M3x8mm
- ❹ 1x inner hex bolt countersunk head M3x8mm (fit steering (pack 28))
- ❺ 4x nut M3 (for mounting into hull not shown in drawing)
- ❻ 2x inner hex bolt countersunk head M2x5mm (for mounting to roof rail)

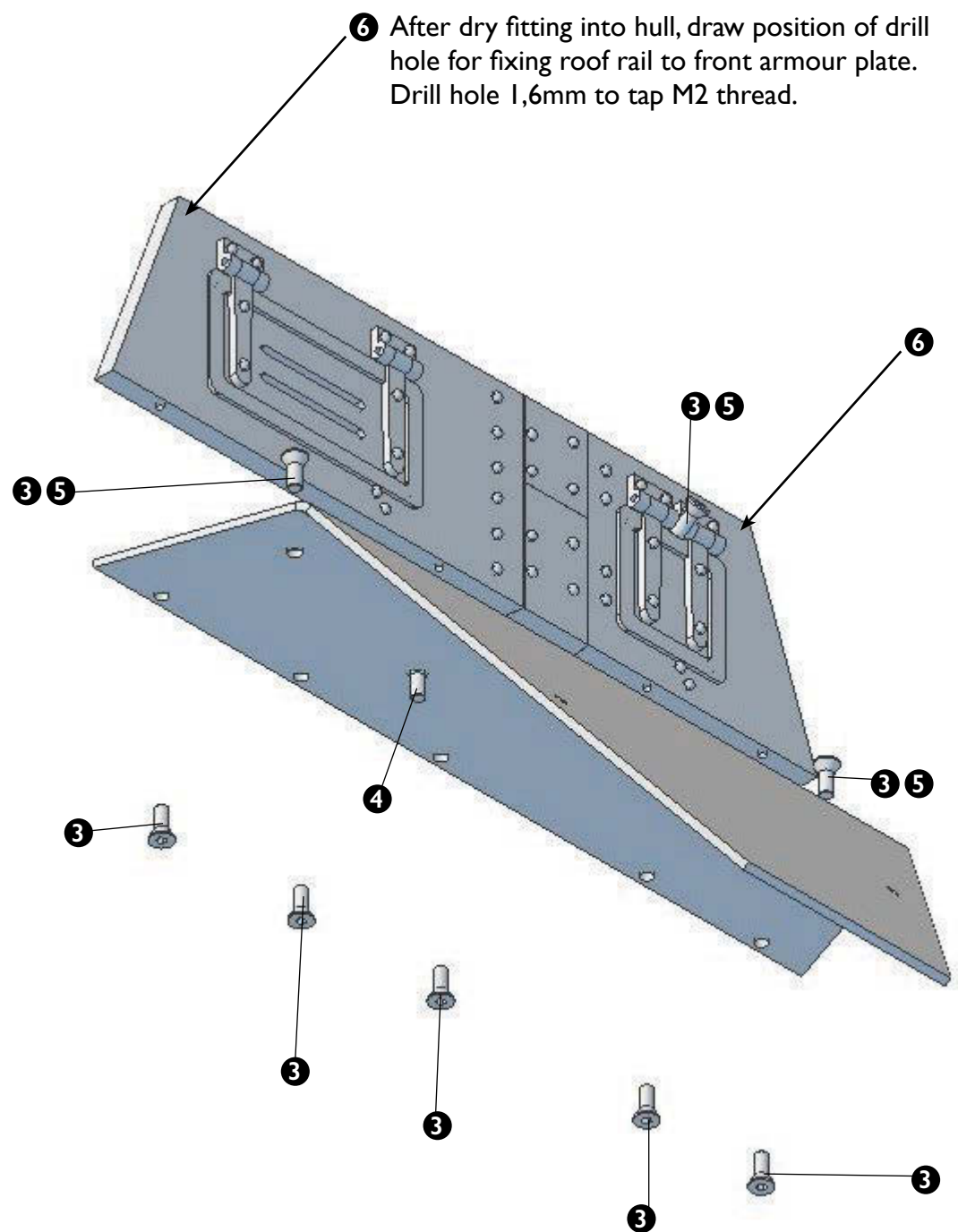
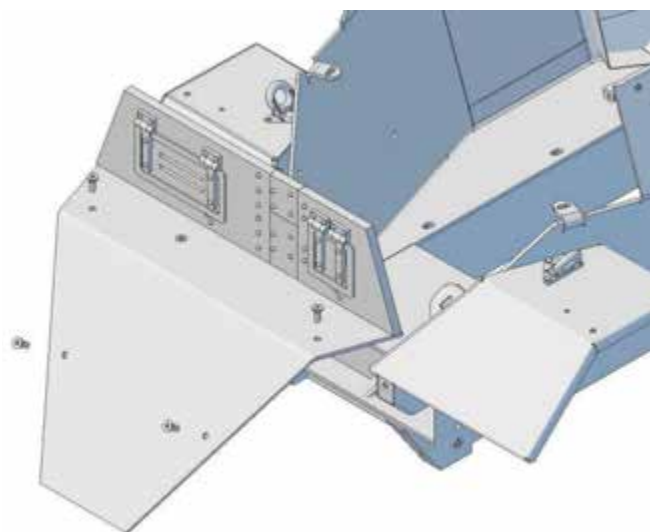
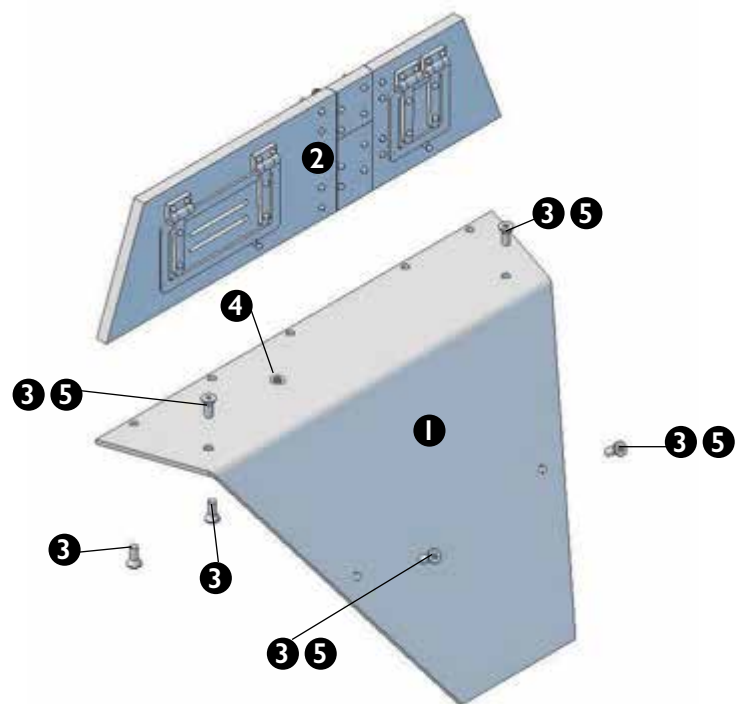
Look for bigger drawing on the inside.

Hull

PACK 18

Front plate





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Rear plates

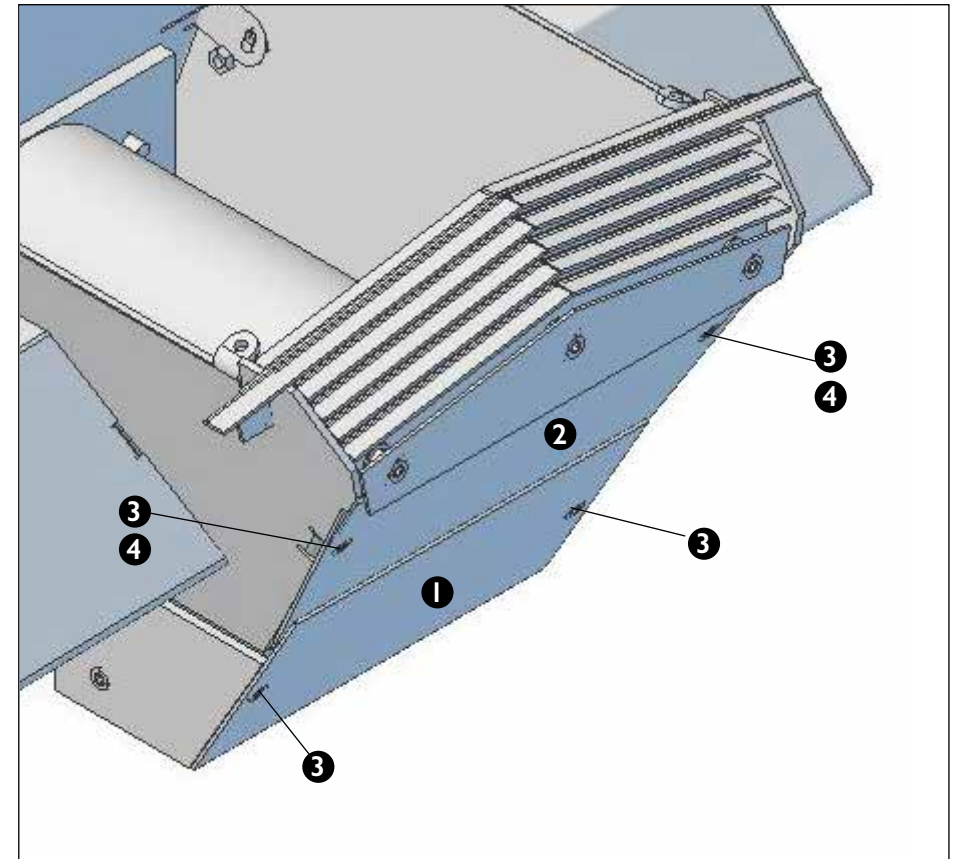
- ❶ 1x rear plate bottom
- ❷ 1x rear plate top
- ❸ 4x inner hex bolt countersunk head M3x8mm (for mounting into hull)
- ❹ 2x nut M3 (for mounting into hull not shown in drawing)

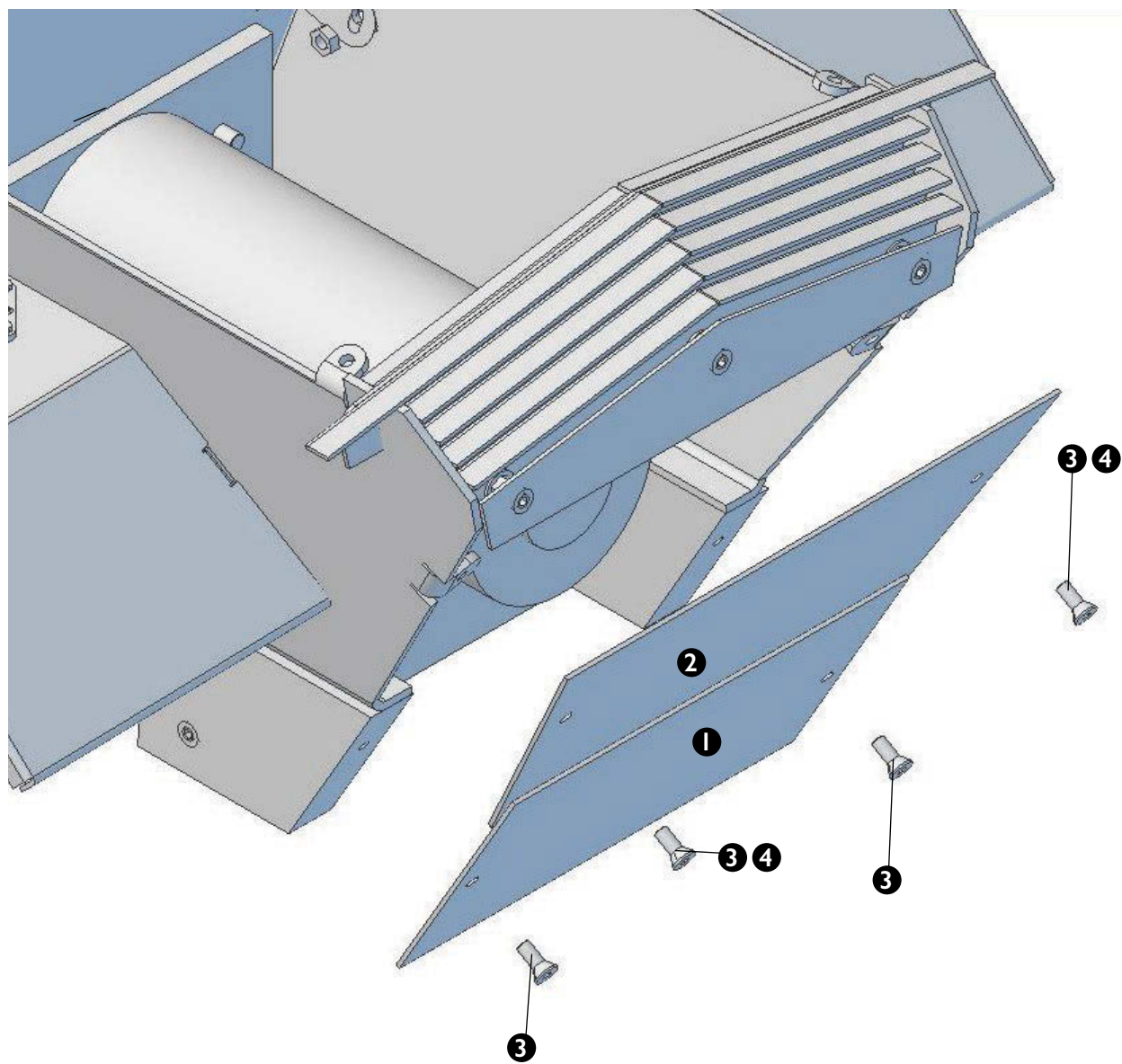
Look for bigger drawing on the inside.

Hull

PACK 19

Rear plates





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

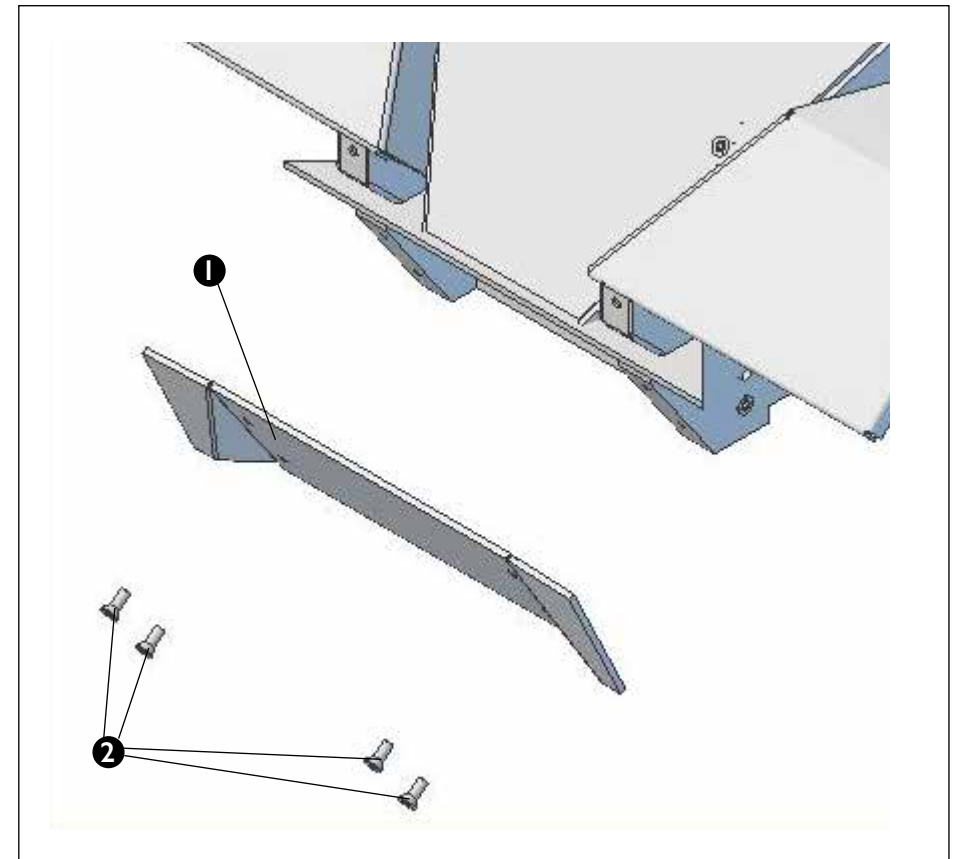
Front plate

- ❶ 1x front plate
- ❷ 4x inner hex bolt countersunk head M3x8mm (for mounting on chassis)

Hull

PACK 20

Front plate



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Roof operating mechanism set

- ❶ 1x roof operating mechanism set
- ❷ 1x stabilization rod (M3x180mm)
- ❸ 4x nut M3 (for mounting/aligning stabilization rod)
- ❹ 18x inner hex bolt countersunk head M2x5mm
- ❺ 18x nut M2
- ❻ 2x inner hex bolt countersunk head M2x8mm

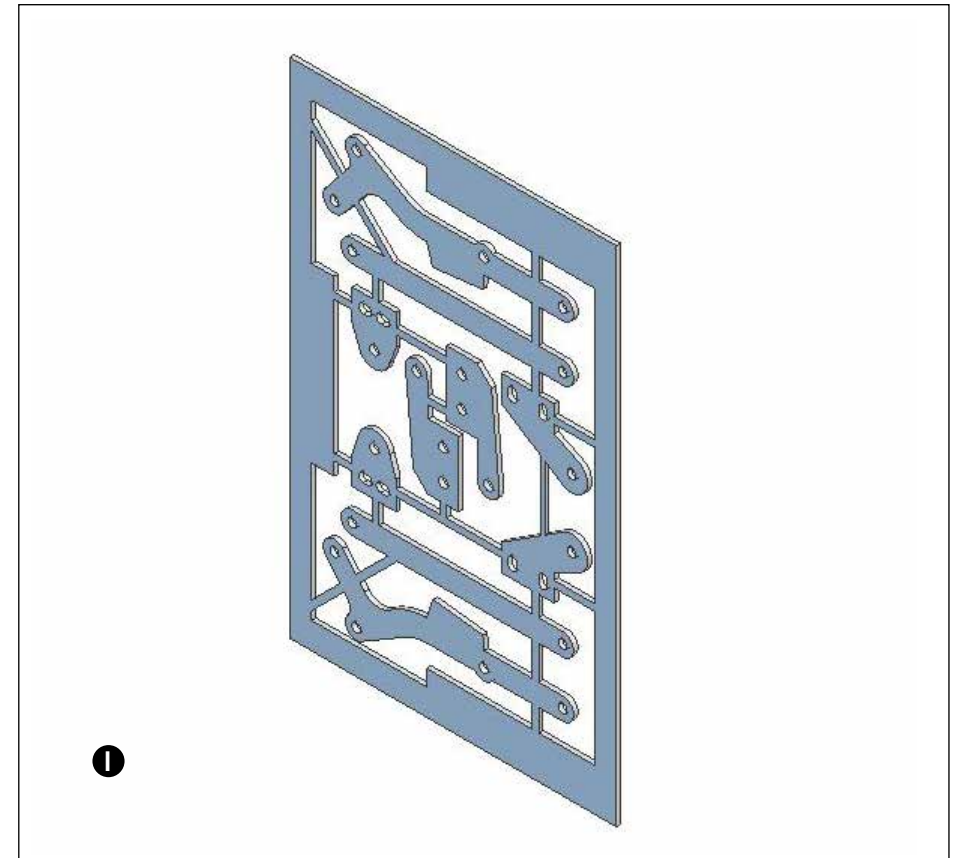
Look on the inside:

How to fabricate the roof mechanism.

Hull

PACK 21

Roof operating mechanism set



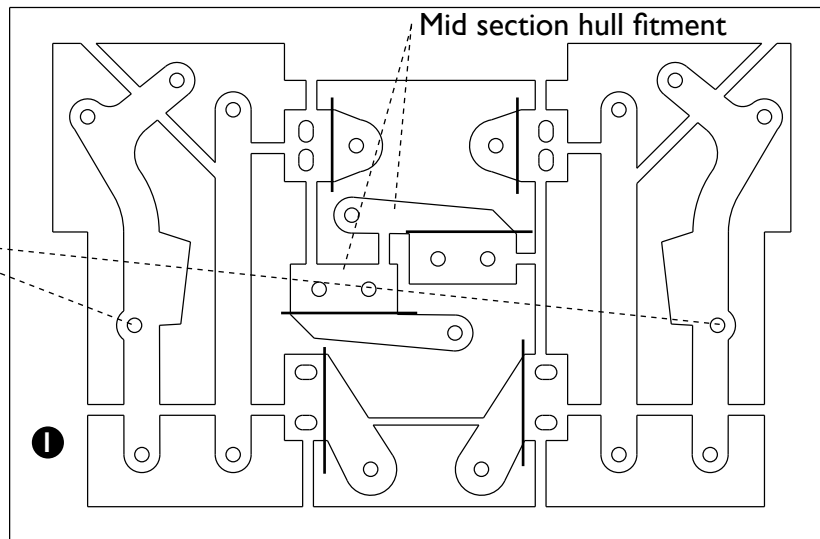
Tip:

Draw scratch markings for bending (thick black lines in drawing). Redrill small holes with 2mm drill before cutting parts out of the set.

Redrill holes with 3mm drill

Bend small parts 90° as shown in drawing.

Use (Gorilla) glue to fixate M2 nuts when mechanism is fabricated, check movement in mechanism.



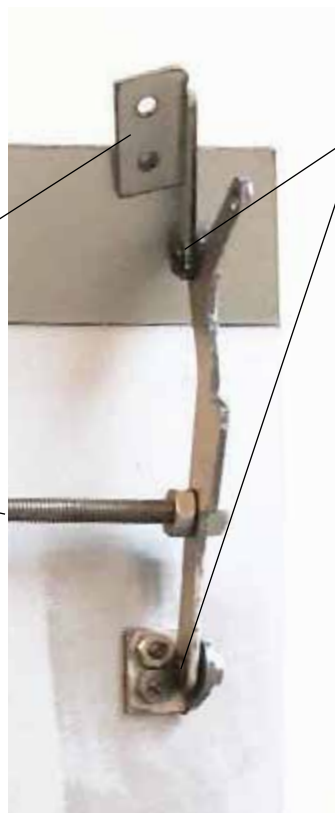
Use (4x) M2 bolts **4** and nuts **5** for fitting roof mechanism to mid section hull



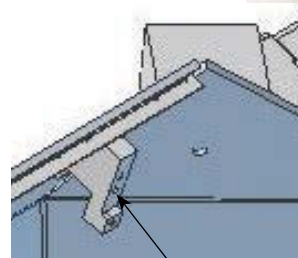
**Right side roof mechanism
(for left side mirror the
shown parts)**

Fitting on the mid section hull
(pack 15)

Stabilization rod **2 3**.
Align and fixate after
fitting on hull.



Tip:
Countersink holes in
parts for better
fitment bolts, see
placement bolts.



Fitting in hull **6**
M2 x 8mm



**Left side
roof mechanism**

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Roof

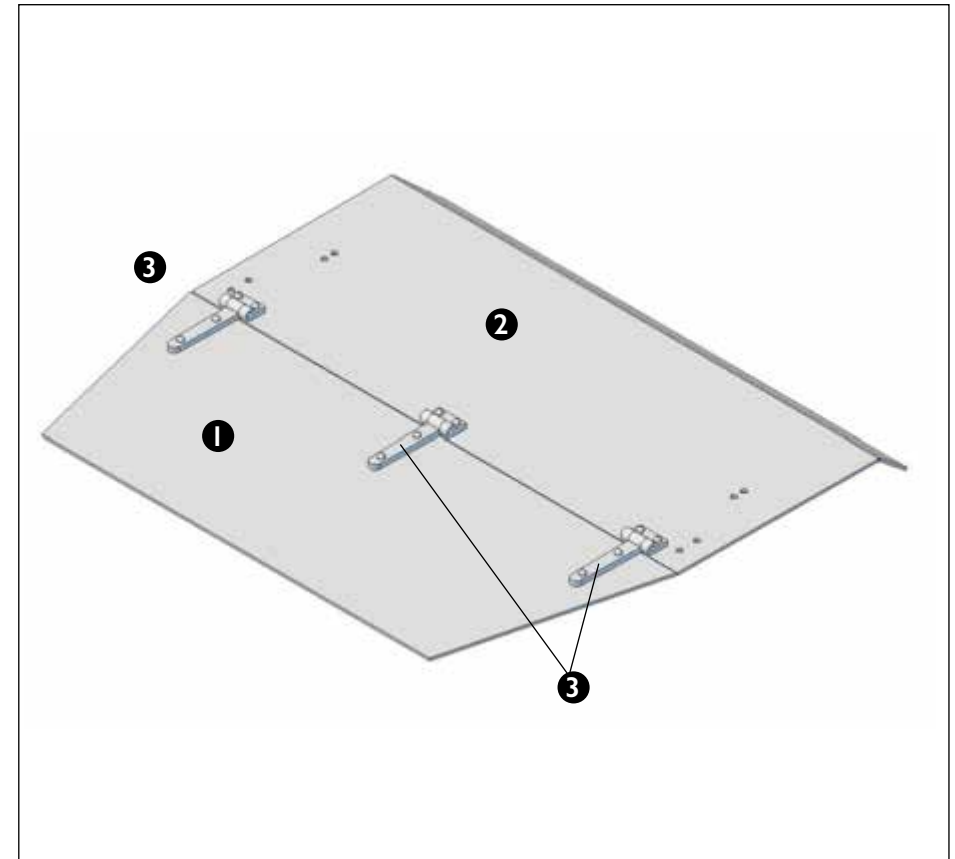
- ❶ 1x roof front part
- ❷ 1x roof rear part
- ❸ 3x hinge long (two parts composed with hinge tool see pack 11)
- ❹ 12x brass round head bolts M1,6x10mm
- ❺ 12x brass nut (not shown in drawing) M1,6

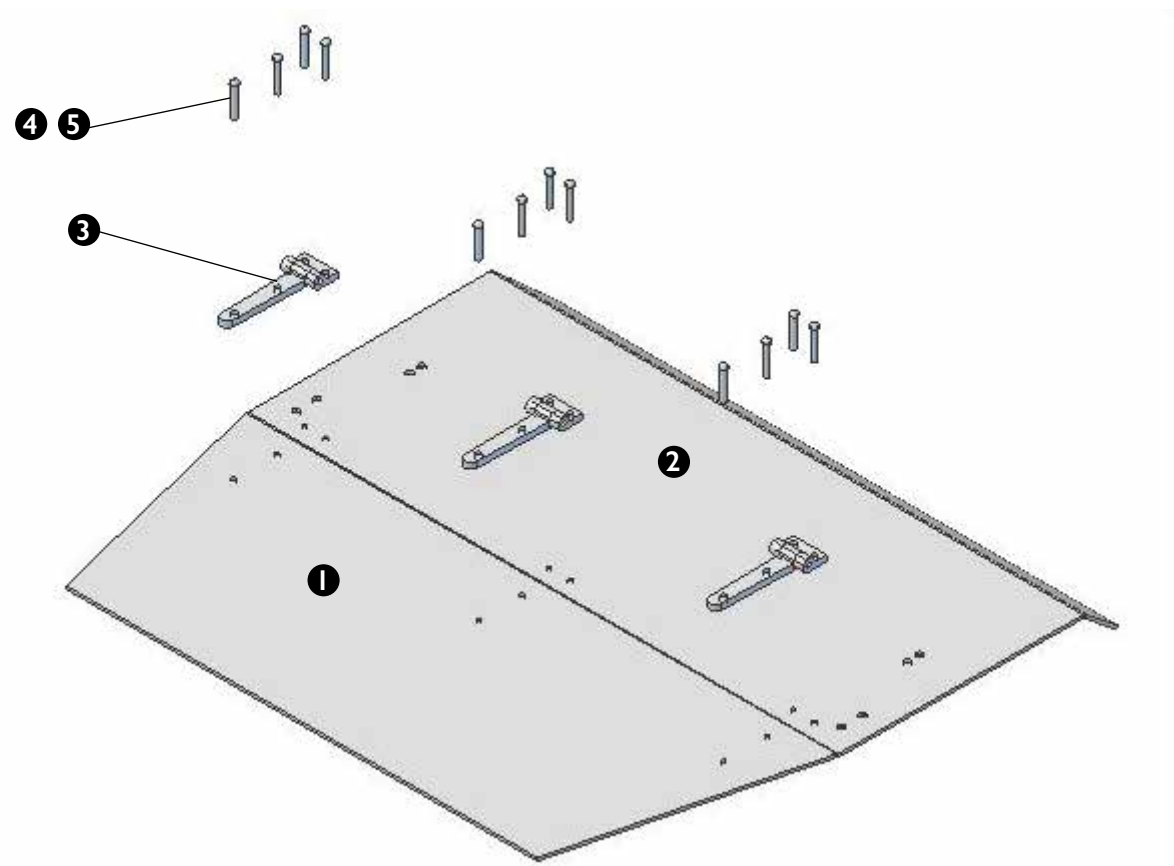
Look for bigger drawing on the inside.

Hull

PACK 22

Roof





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Bonnet

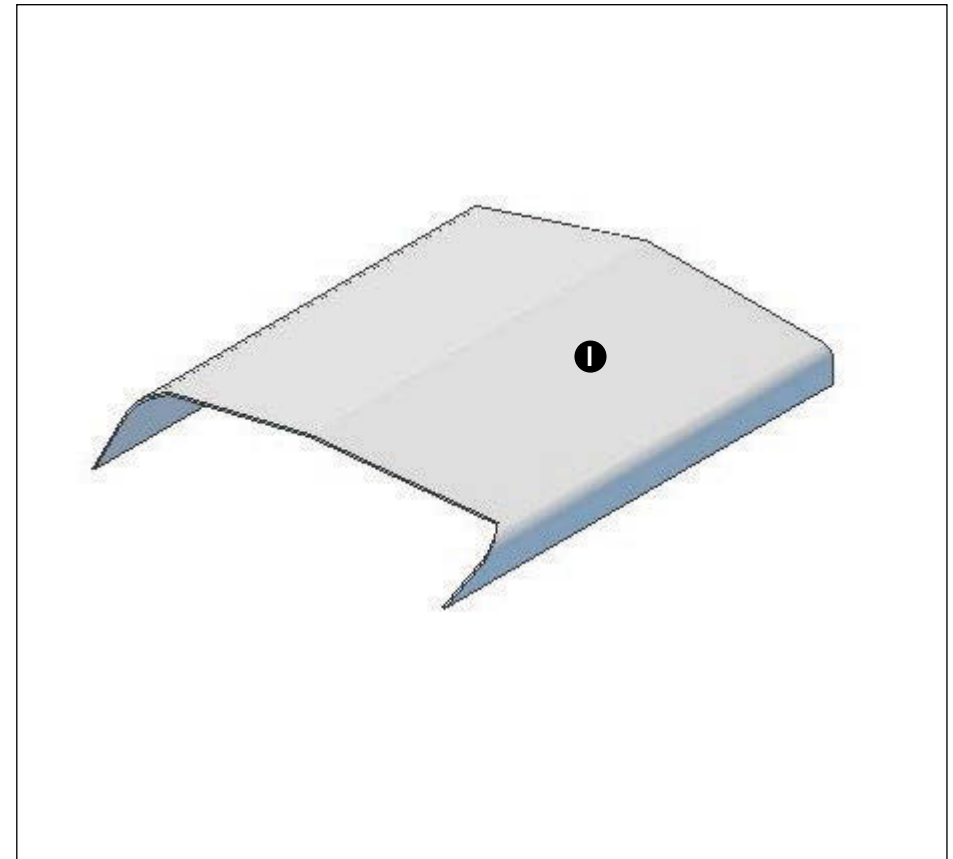
- ❶ 1x bonnet
- ❷ 6x earth magnets (not shown in drawing)

Look for bigger drawing on the inside.

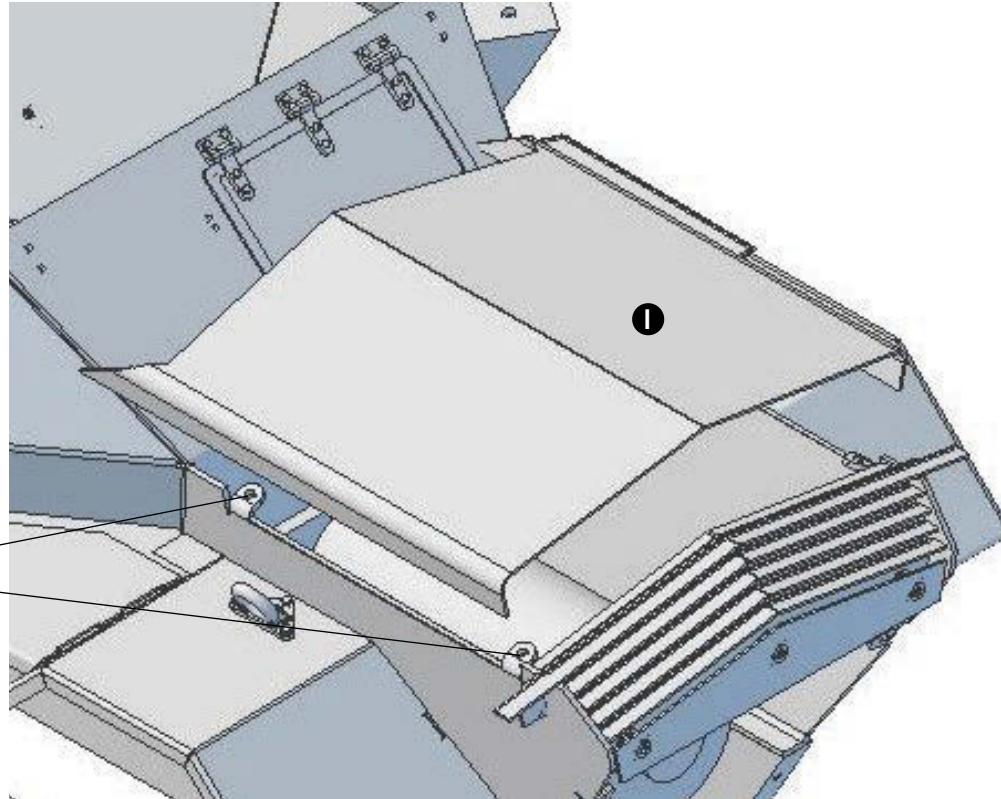
Hull

PACK 23

Bonnet



Place magnets ②
(on both sides)



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front toolbox

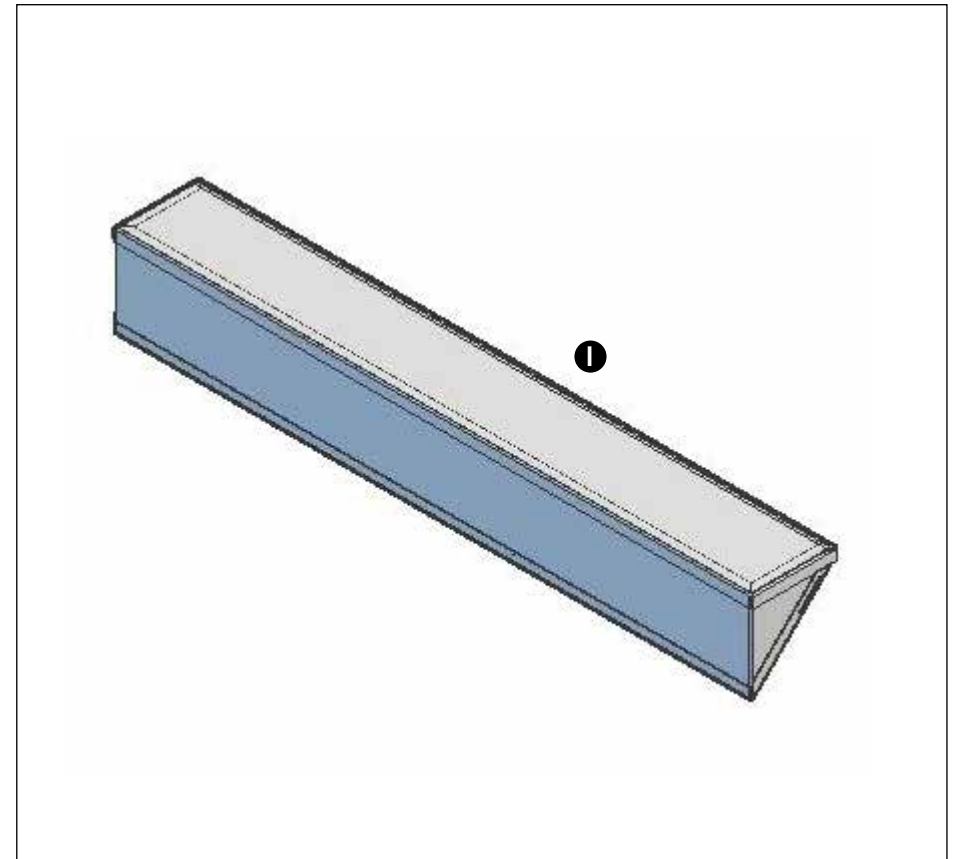
- ❶ 1x toolbox
- ❷ 2x M3x8 hex bolt + M3 nut (not shown in drawing)
- ❸ 3x hinges to be made from 2 parts each (not shown in drawing)

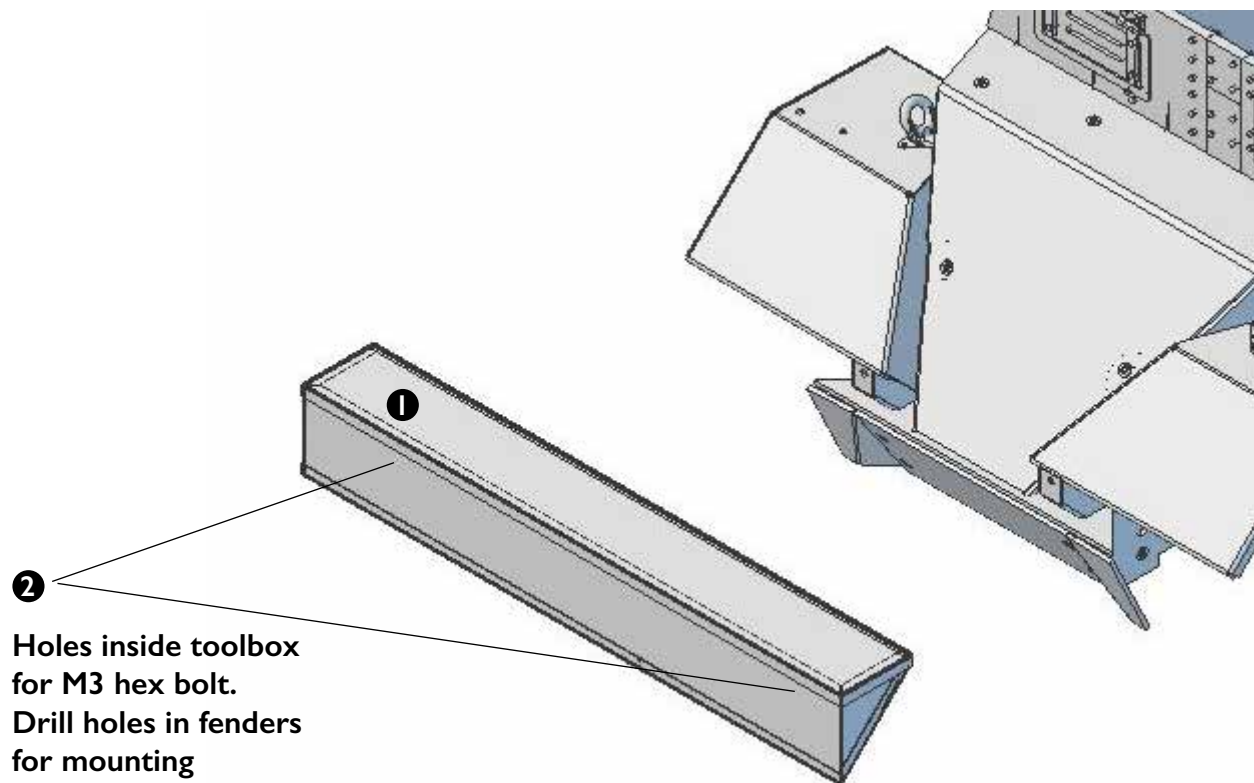
Look for bigger drawing on the inside.

Hull

PACK 24

Front toolbox





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Ramps

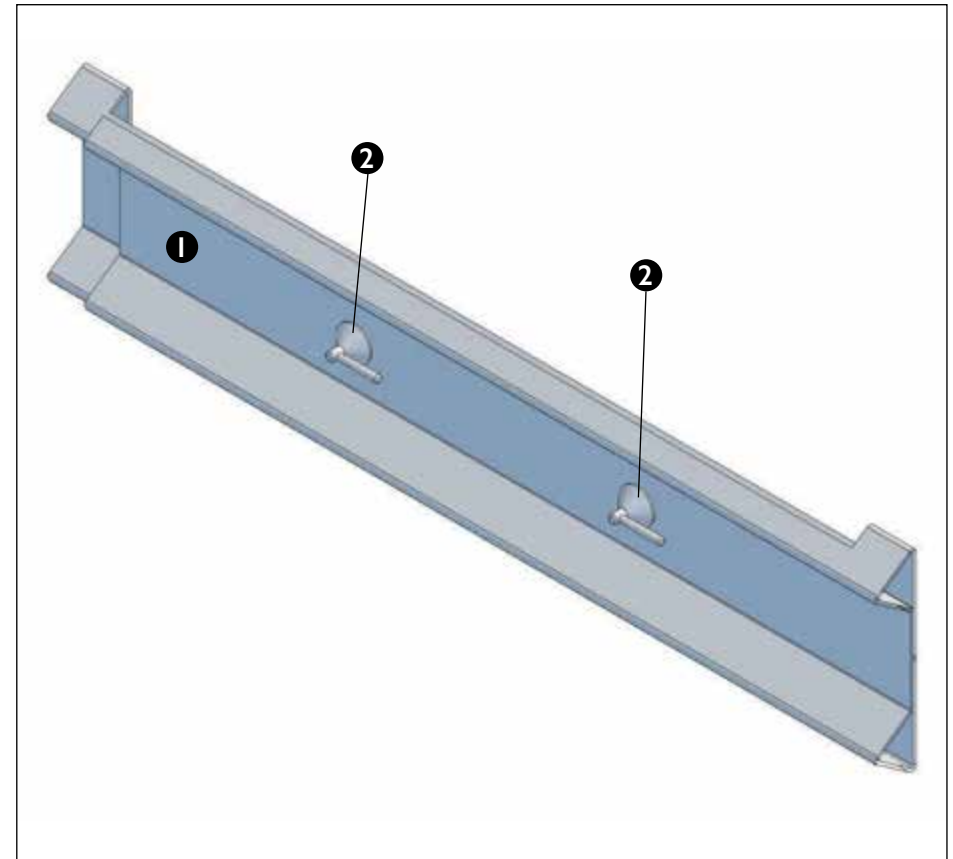
- ❶ 2x ramp
- ❷ 2x M3x6 hex bolt (not shown in drawing)
- ❸ 2x mounting levers

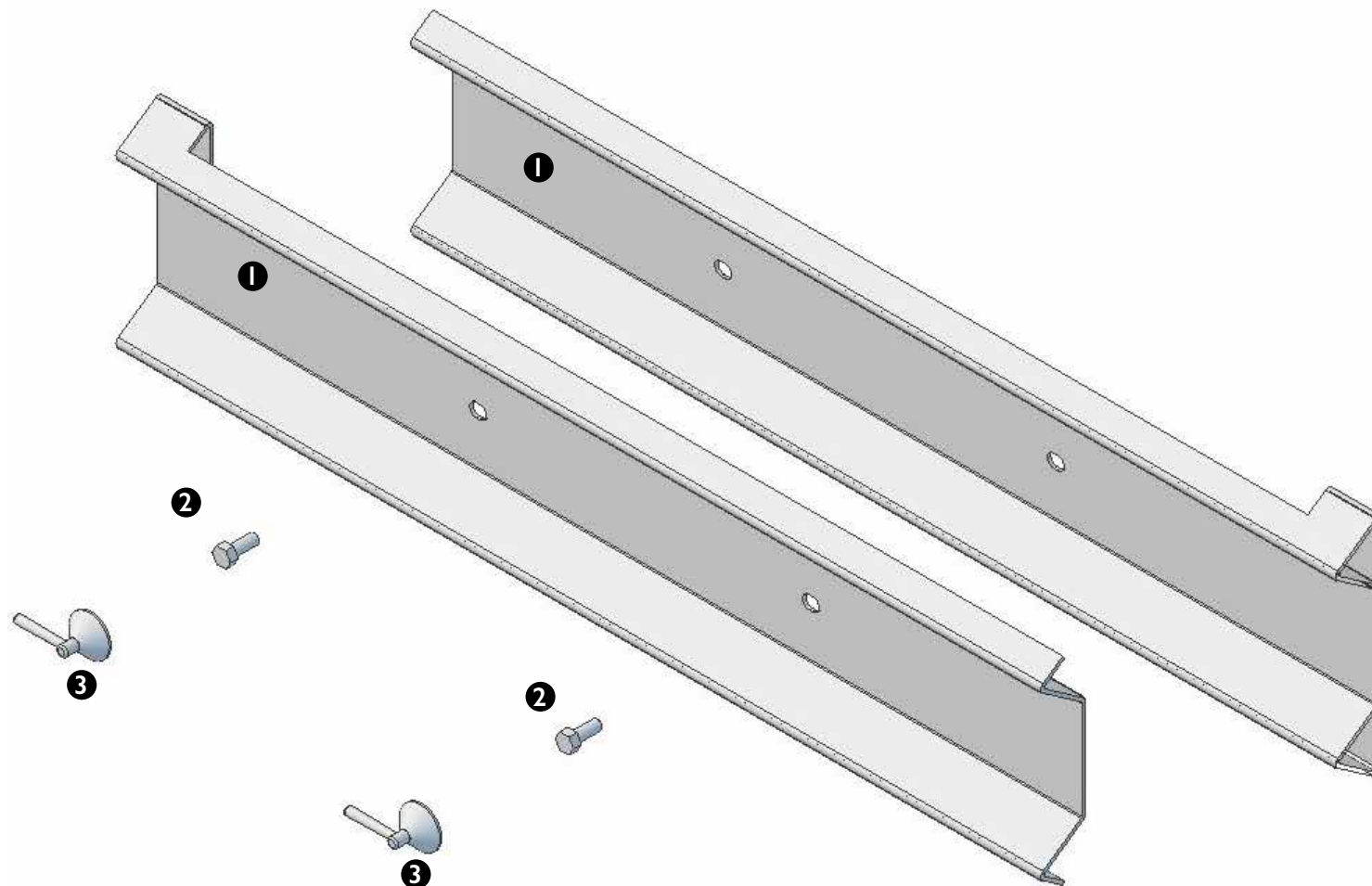
Look for bigger drawing on the inside.

Hull

PACK 25

Ramps





Glue mounting levers **3** onto M3x8 hex bolt **2**

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Roof bracket

- ❶ 1x connector left side
- ❷ 1x connector right side
- ❸ 2x curved rod
- ❹ 1x long rod

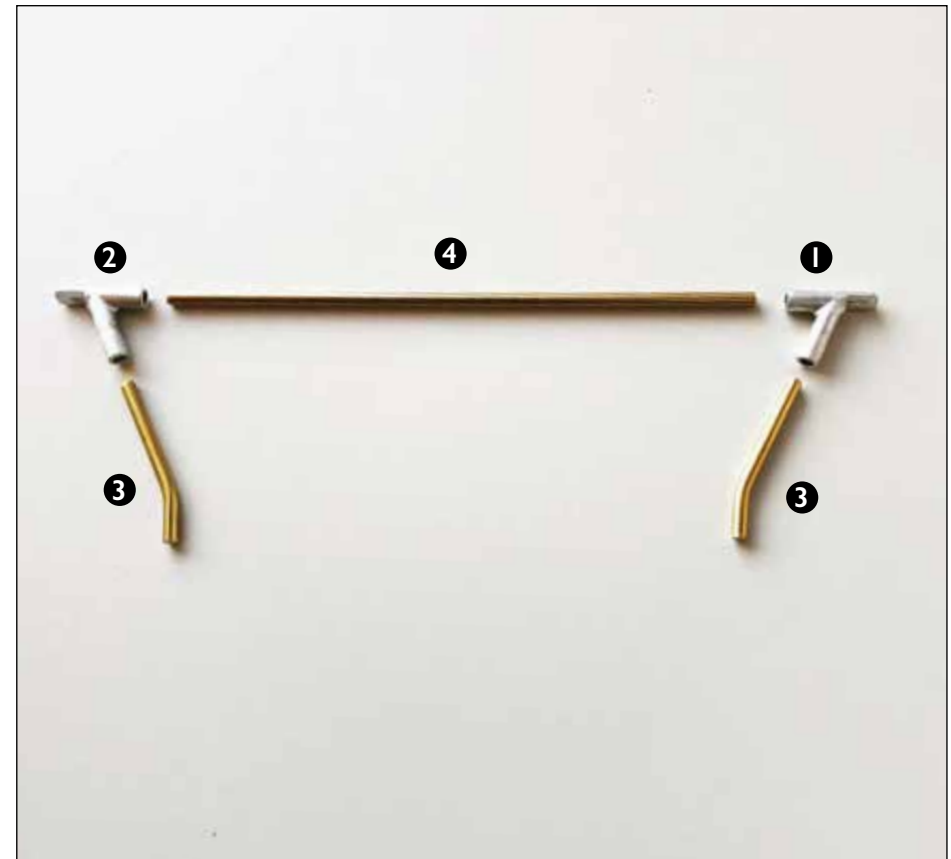
TIP:

Fit the bracket in roof bracket mount (pack 26) and glue the bracket after adjusting and testing fitment of opened roof (picture inside).

Hull

PACK 26

Roof bracket





TIP:

Fit the bracket in roof bracket mount (pack 26) and glue the bracket after adjusting and testing fitment of opened roof.

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Interior

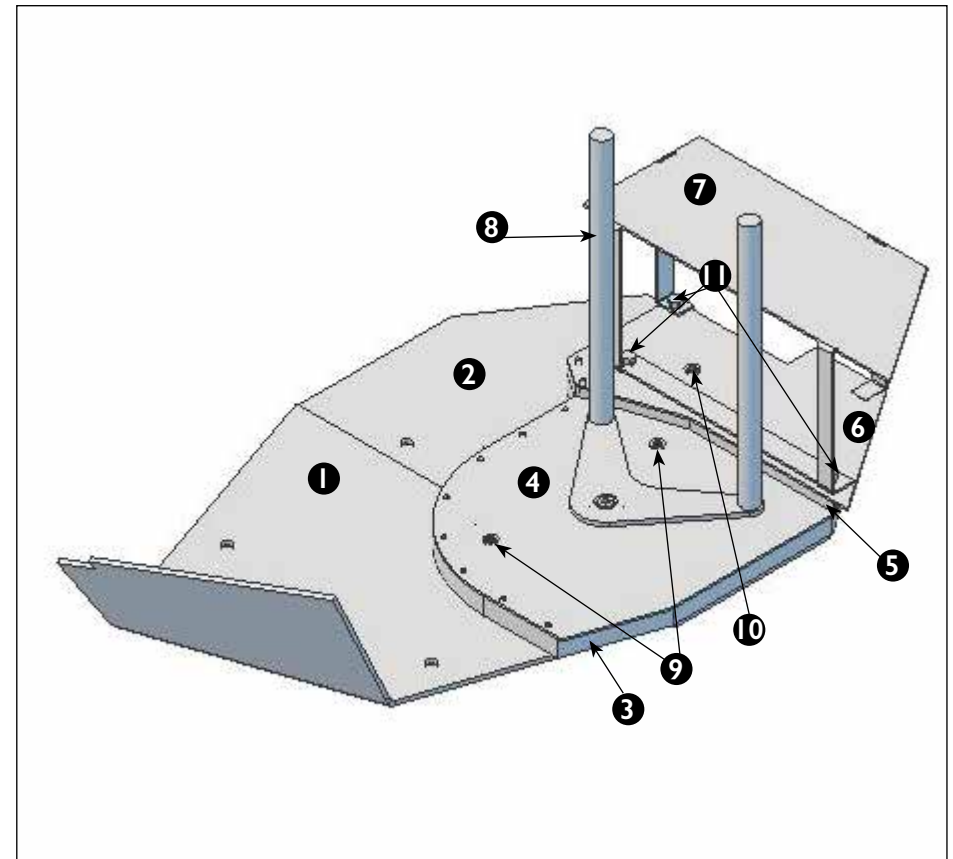
- ❶ 1x groundplate front
- ❷ 1x groundplate back
- ❸ 1x elevation platform observers seat
- ❹ 1x groundplate observers seat
- ❺ 1x elevation platform radio table
- ❻ 1x groundplate radio table
- ❼ 1x radio table
- ❽ 1x Observers seat (look inside for mounting)
- ❾ 2x M3x16 inner hex bolt countersunk head + M3 nut
- ❿ 1x M3x20 inner hex bolt countersunk head + M3 nut
- ⓫ 3x M3x6 hex bolt (not shown in drawing)
- ⓬ 1x bearing 13x5 mm
- ⓭ 2x M3x12 inner hex bolt countersunk head
- ⓮ 1x M4x10 inner hex bolt countersunk head (fit in no.15)
- ⓯ 1x turn axle observers seat

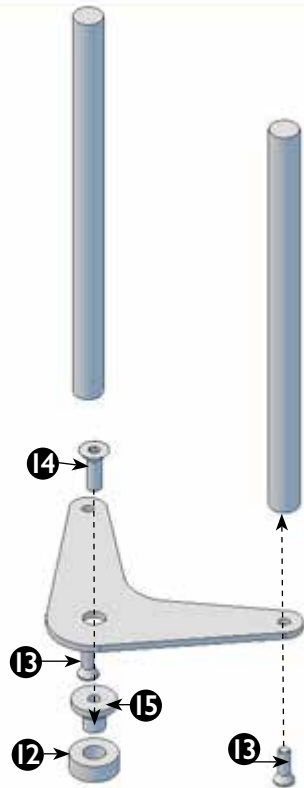
Look for bigger drawing on the inside.

Hull

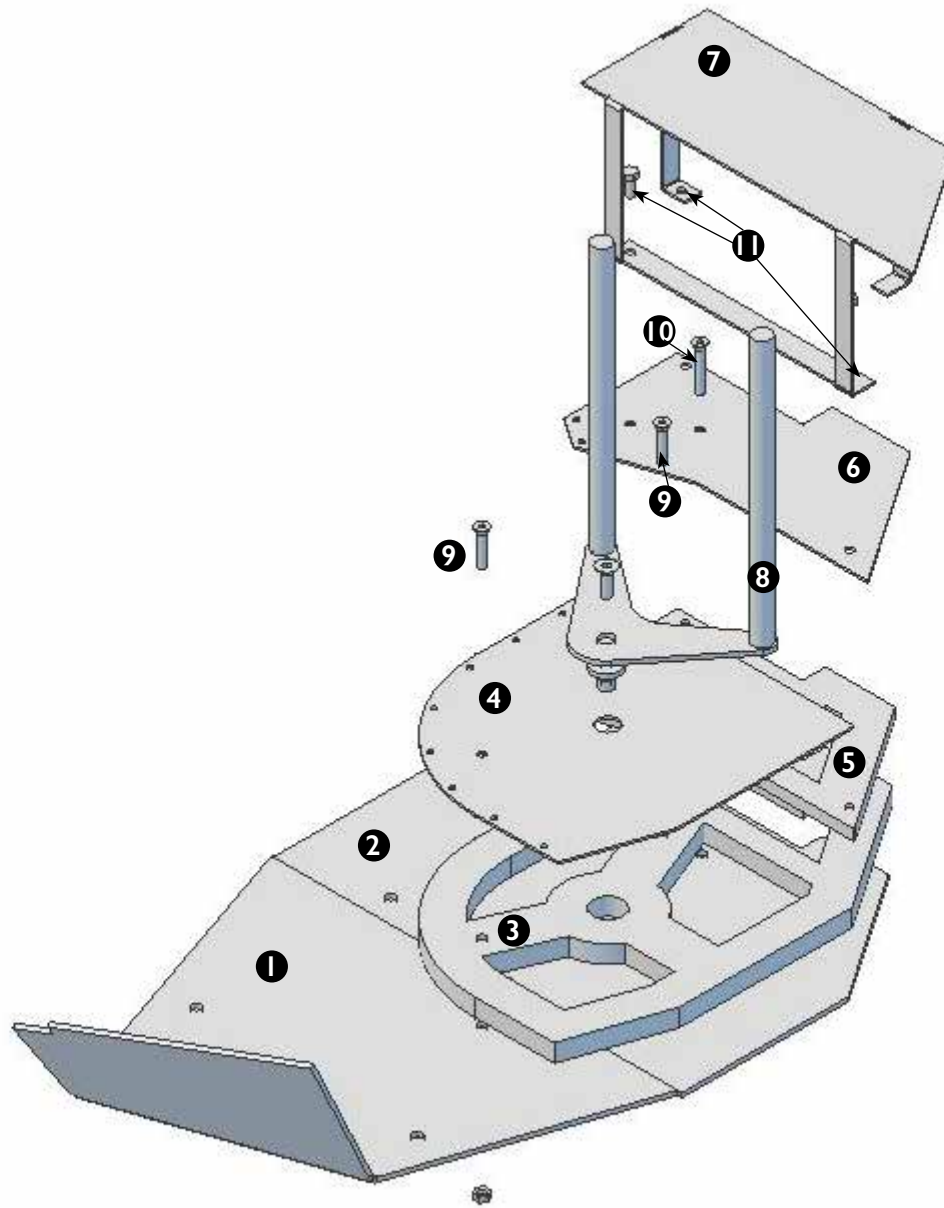
PACK 27

Interior





Notice: Fit bearing UNDER groundplate 4 observers seat and fit turn axle 15 from ABOVE groundplate 4 observers seat.



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Steering wheel

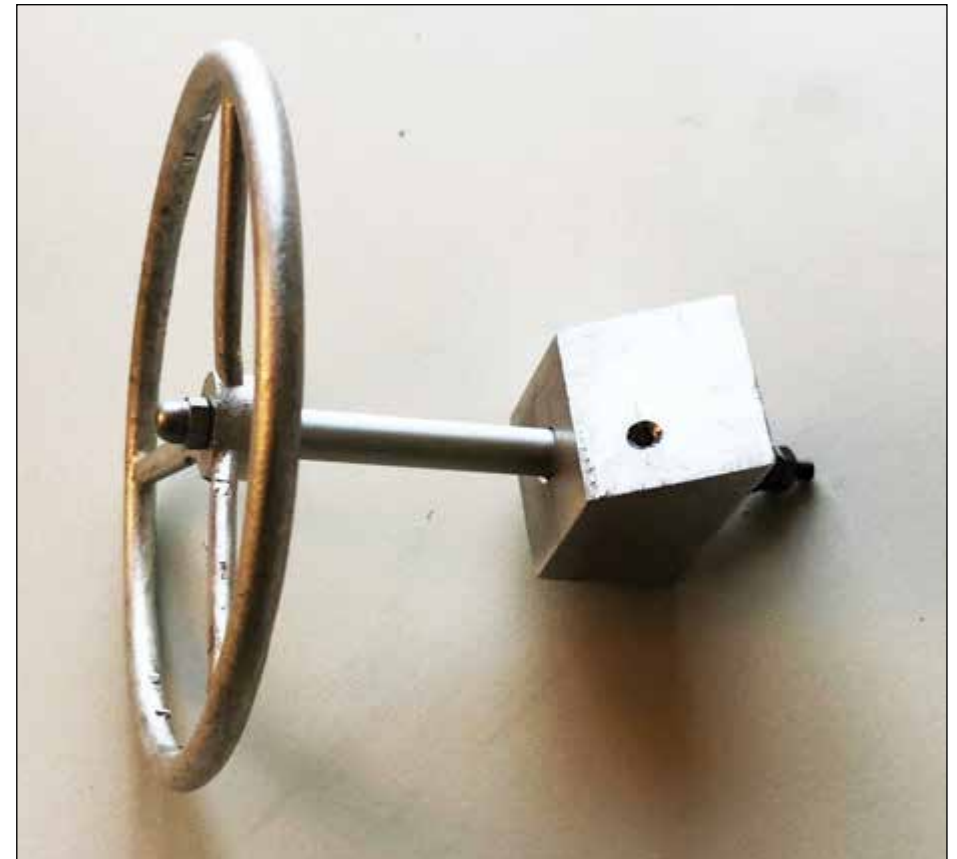
- ❶ 1x steering wheel
- ❷ 3x M3 nut
- ❸ 1x M3 cap nut
- ❹ 1x steering rod (M3x80mm)
- ❺ 1x steering pipe (65mm)
- ❻ 2x spacer ring M3
- ❼ 1x mounting blok

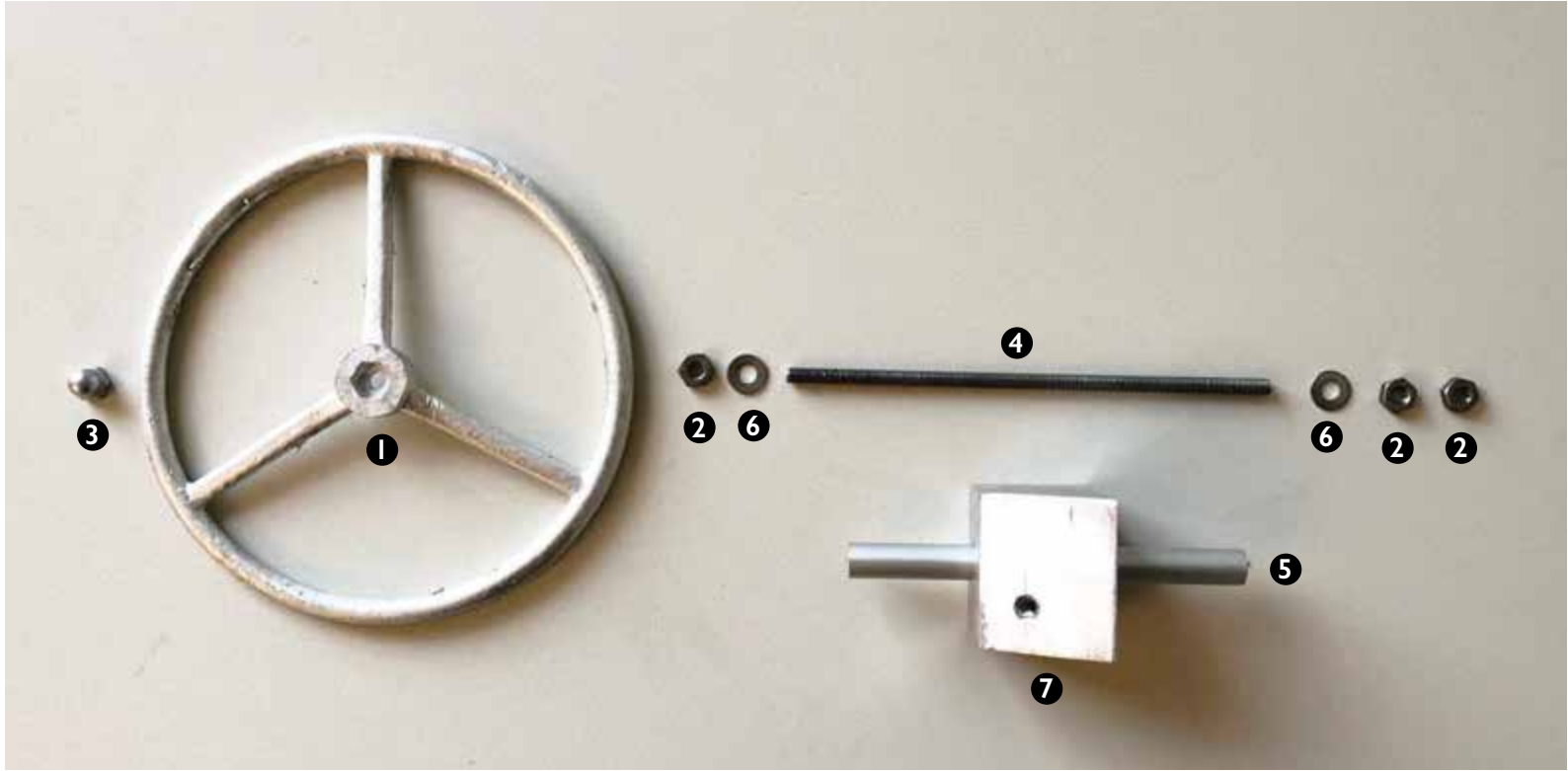
Look for bigger picture on the inside.

Hull

PACK 28

Steering wheel





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Driver seat

- ❶ 1x seat top
- ❷ 1x seat bottom
- ❸ 1x M3 rod 76mm
- ❹ 15x M3 square nut Hexbolt
- ❺ 8x Hexbolt M3x6
- ❻ 1x Lever set (not shown)
- ❼ 30x spacer ring M3

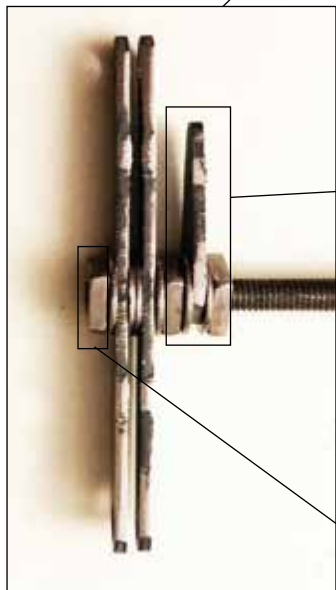
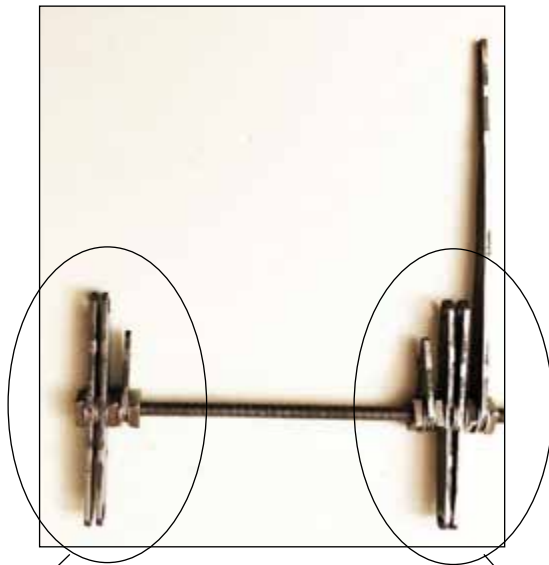
Look for pictures on the inside.

Hull

PACK 29

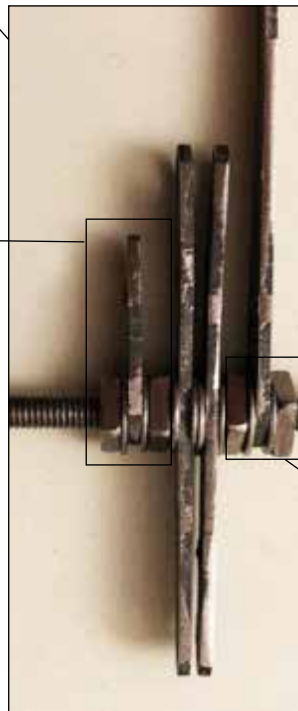
Driver seat





Set parts (2x square nut, 2x spacer ring M3, small lever) in correct position/align and glue on rod.

glue square nut on rod



Set parts (2x square nut, 2x spacer ring M3, small lever, big lever) in correct position/align and glue on rod.

Glue all these square nuts on the (8x) M3 bolts, check movement/height seat.



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Aerials

- ❶ 1x right aerial (base)
- ❷ 1x right aerial (ring)
- ❸ 4x right aerial (bucket)
- ❹ 1x left aerial (base)
- ❺ 1x left aerial (lock)

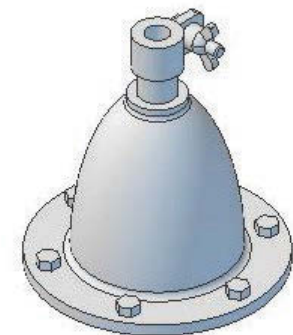
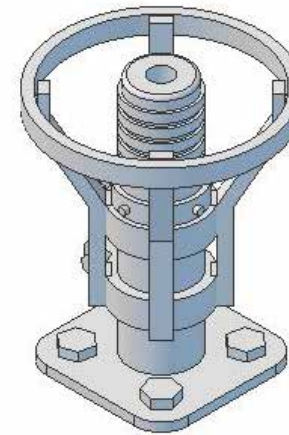
Look for bigger drawing on the inside.

Hull

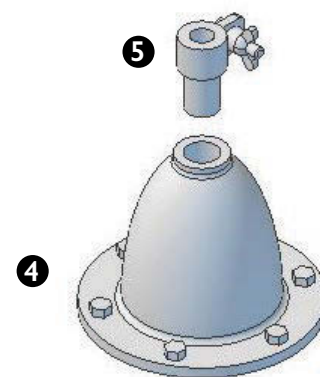
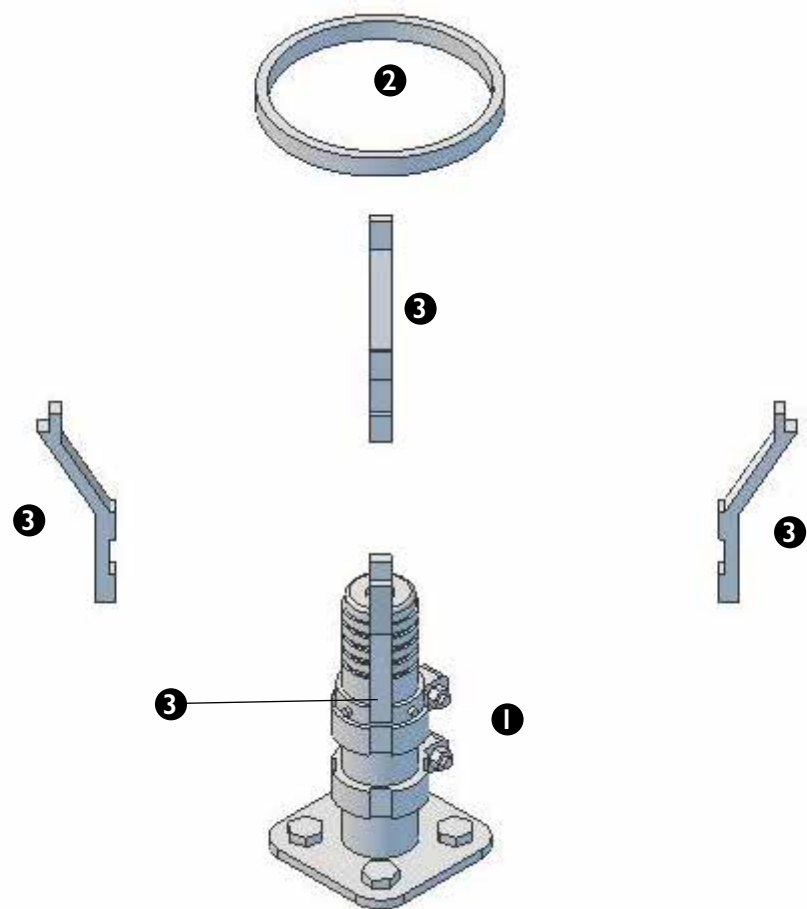
PACK 30

Aerials left and right

right aerial



left aerial



Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Front lights and horn

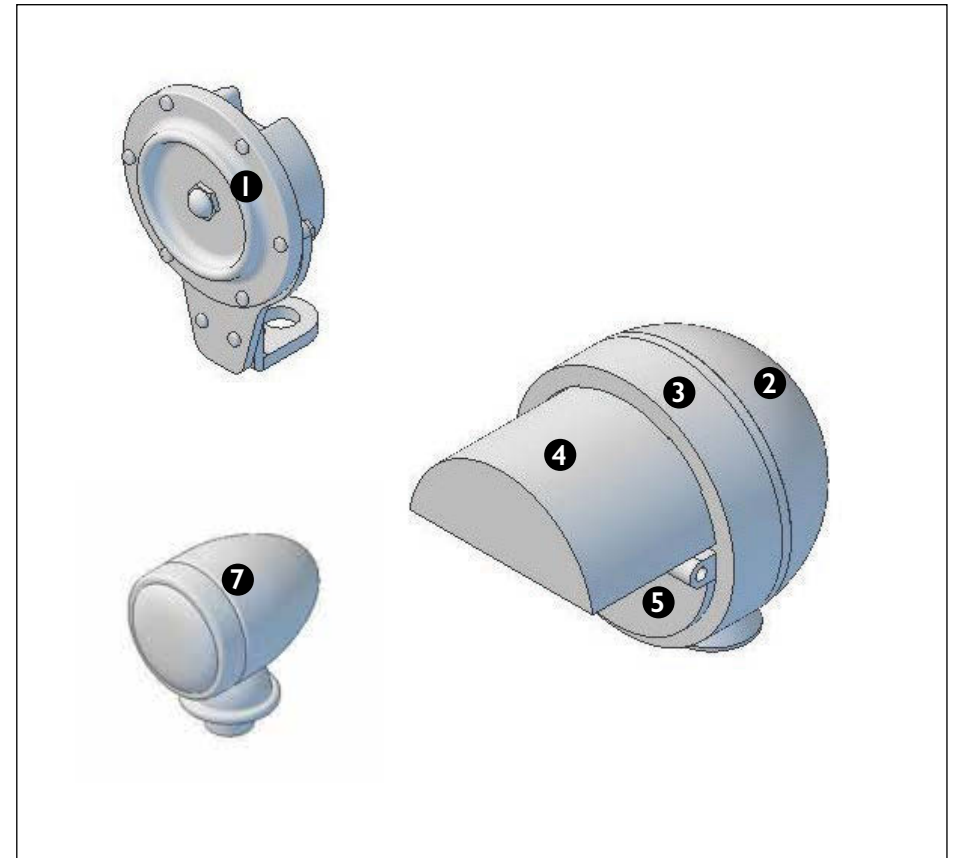
- ❶ 1x horn
- ❷ 1x headlight (base)
- ❸ 1x headlight (ring)
- ❹ 1x headlight (cap)
- ❺ 1x headlight (black out cover)
- ❻ 2x M3x8 bolt (1x M3 nut)
- ❼ 2x side lamps

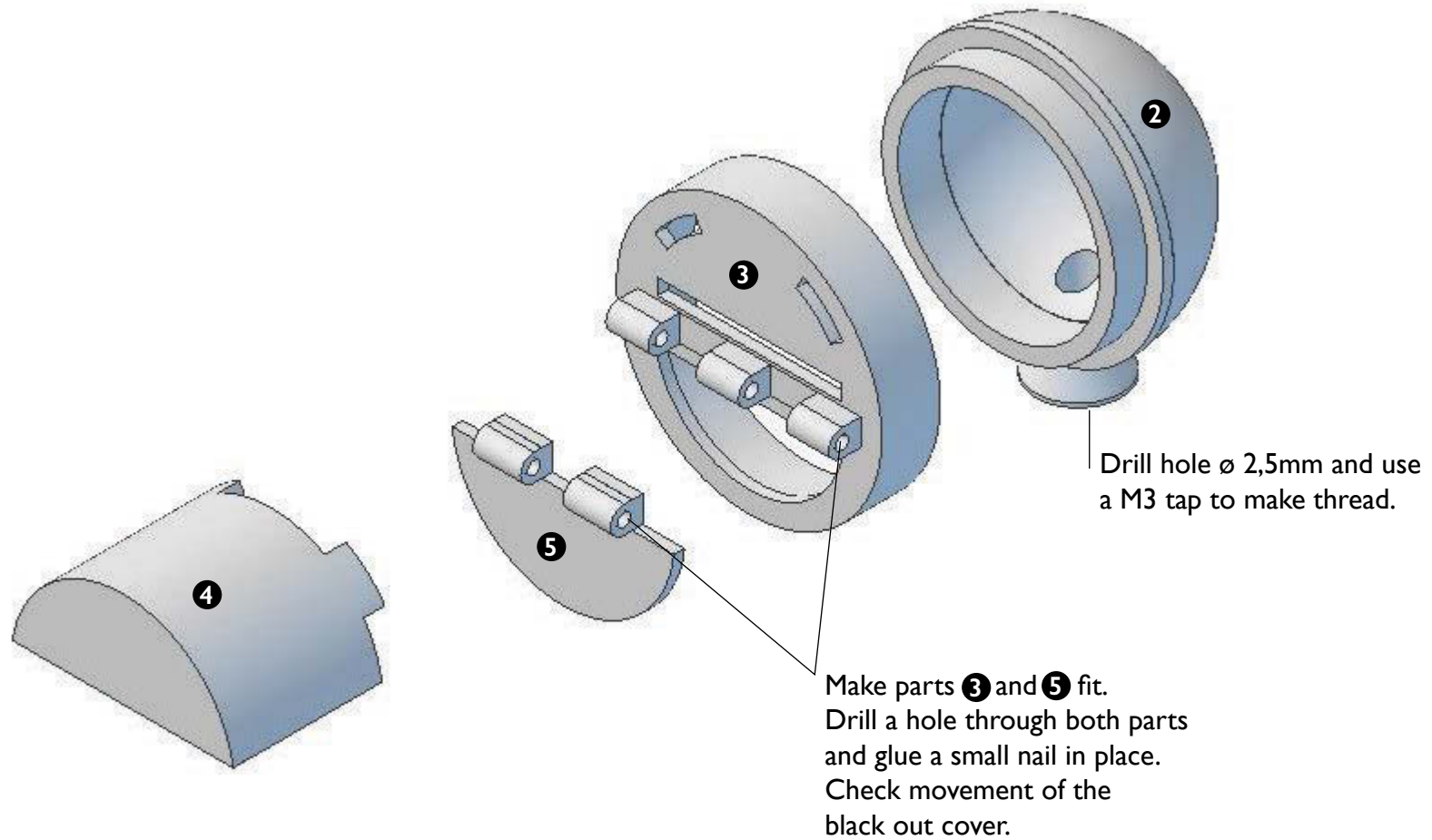
Look for bigger drawing on the inside.

Hull

PACK 31

Front lights and horn





Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Exhaust

- ❶ 1x front silencer (back side)
- ❷ 1x front silencer (front side)
- ❸ 1x rear silencer (back side)
- ❹ 1x rear silencer (front side)
- ❺ 2x M4x30mm bolt + 4x M4 nut
- ❻ 1x connecting pipe
- ❼ 1x end pipe

Look for picture on the inside.

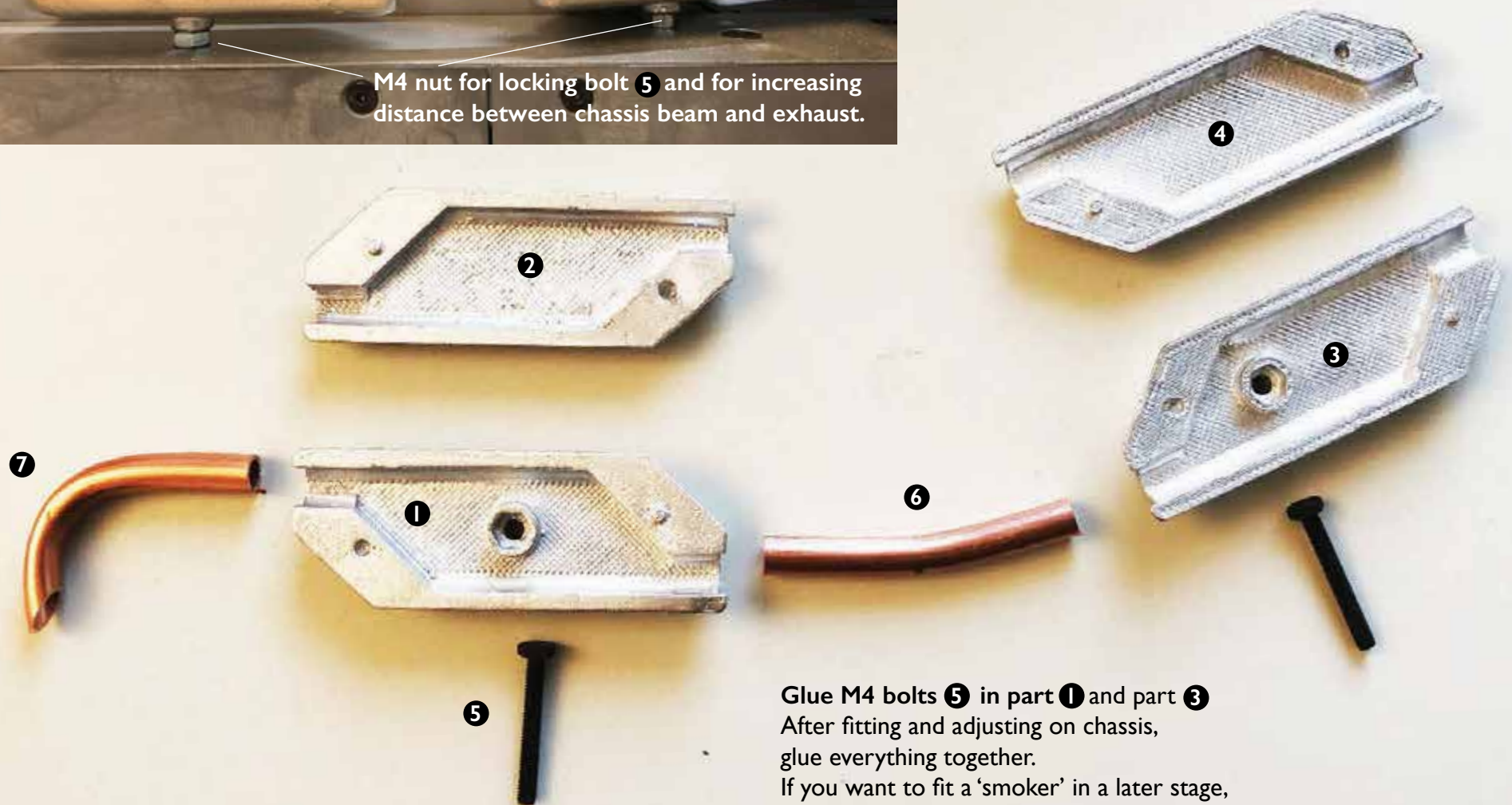
Tip:
Place a rubber tube in the exhaust for the use of a 'smoker' in a later stage.

Hull

PACK 32

Exhaust





Glue M4 bolts 5 in part 1 and part 3
After fitting and adjusting on chassis,
glue everything together.
If you want to fit a 'smoker' in a later stage,
fit a rubber tube before glueing together.

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Electrical parts

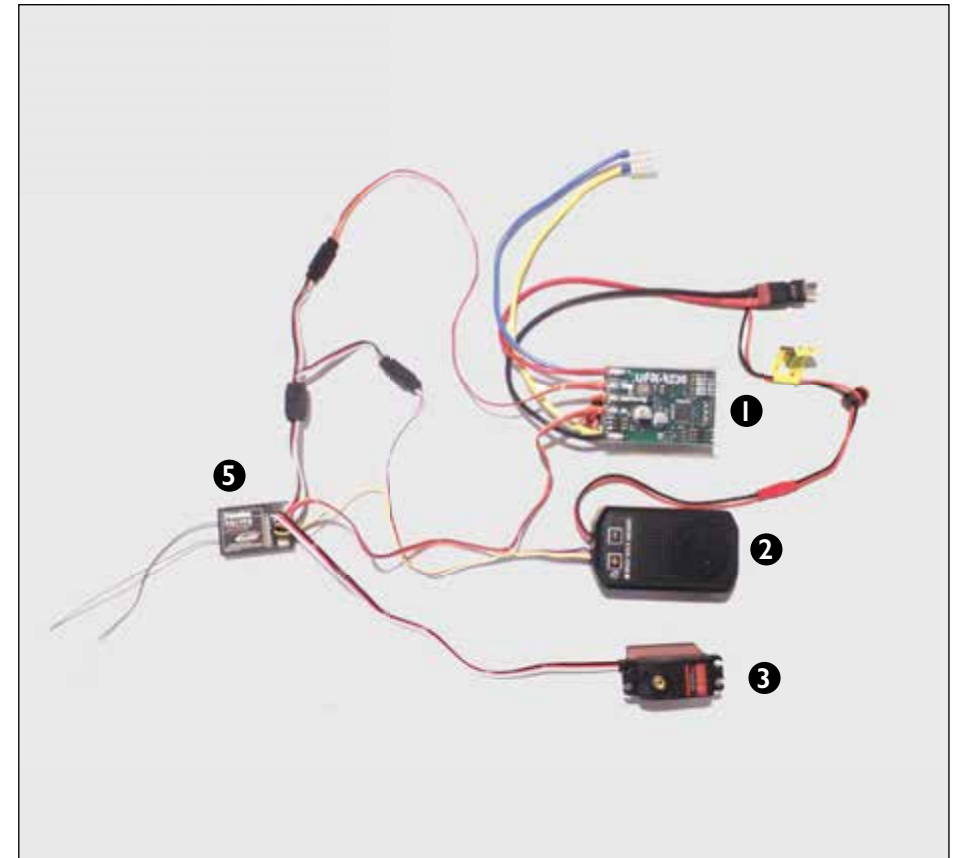
- ❶ 1x speedcontroller **UFR-1230**
- ❷ 1x sound module **ESS ONE**
- ❸ 1x servo (pack 09)
- ❹ 1x servo extension cable (not in picture)
- ❺ 1x RECEIVER (NOT INCLUDED)

Look for drawing/instructions inside.

Hull

PACK 33

Electrical parts



The electronics are easy to connect

Tip: Please read the manuals/instructions that accompany the electronics.

The UFR-1230 and the ESS ONE are 12volt.
We advise to include a on/off switch. However, we didn't include one, you can decide.

Adjust the dip Switches on the UFR if necessary, for instance:

- If you use LIPO batteries
- Or if you use the brake option. We advise to use the break option. It will automatically break when you lower the speed. For backwards driving you need to switch channel 3.

Software settings (use PC)

Both electronics have different options: You can change settings. Download the free of charge computer software (windows). Please read the manuals/instructions how to do that.

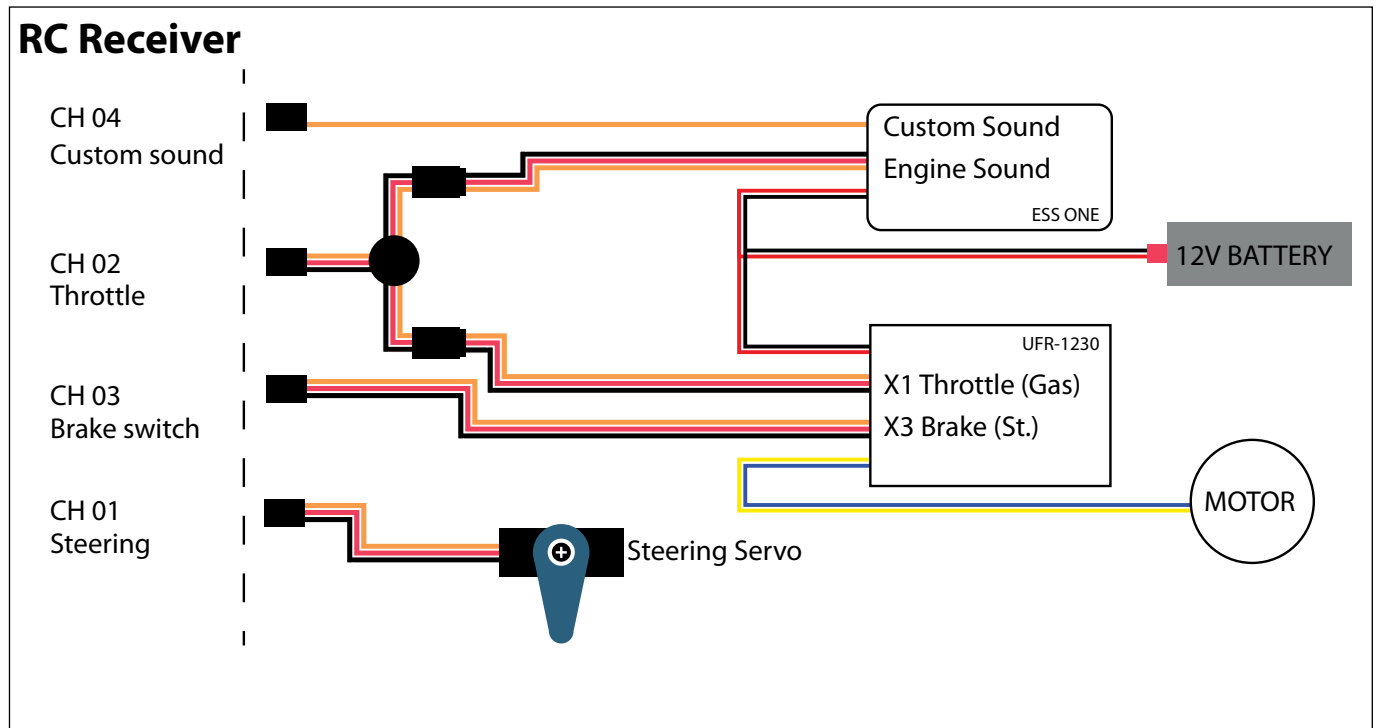
ESS ONE: Choose your engine sound AND add a custom sound

UFR : Driving setting/switch setting

Battery/batteries and battery placement

You can use various types of batteries. We use LIPO 2x Turnigy 5000mAh 4S1P 14.8V 20C Hardcase Pack. They fit in the motor compartment. But you can use other types as well.

Whatever you do... Make sure there is space between the motor and the batteries. The motor gets hot and needs airflow to cool down!



Electrical parts Suggestions for positioning

UFR Speedcontroller: Crew compartment - flat against the metal wall (For extra cooling). Make / use a strip to fasten it against the wall.



The back of the petrol tank (Part of the resin upgrade pack) is designed to leave room for the speed controller and is a great way to hide it.



The ESS ONE fits in the rack.

**RC MODEL BUILDERS:
PLEASE NOTE:**

**FOR WIRING PURPOSES
WE ADVISE TO DRILL
A HOLE IN THE MID
SECTION PANEL IN
ORDER TO REACH THE
ENGINE COMPARTMENT
(FOR CONNECTING THE
MOTOR / BATTERIES)**

Content

Tip: Always dry fit the parts before mounting and use loctite on moving parts, bolts and nuts.

Skid plates

- ❶ 1x front skid plate
- ❷ 1x middle skid plate
- ❸ 1x rear skid plate
- ❹ 12x inner hex bolt countersunk head M3x8

Look for bigger drawing on the inside.

Hull

PACK 34

Skid plates

