AMG PETRONAS FORMULA ONE TEAM

INSTRUCTIONS MANUAL



Mercedes-AMG PETRONAS F1 Team

F1 W14 E Performance

luppa
CREATING JOY

BODYWORK, FRONT SPOILERS ASSEMBLY AND HALO ASSEMBLY

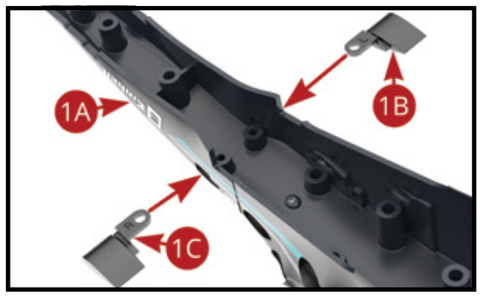
PIECES AND TOOLS

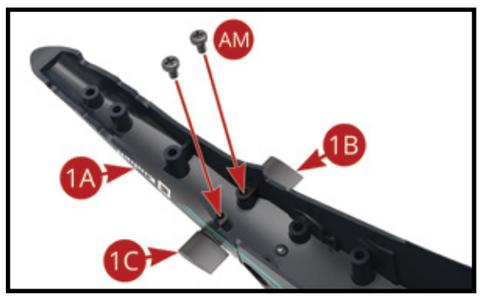
1A Bodywork
1B Left spoiler (L)
1C Right spoiler (R)
1D Halo
1E Halo spoiler
AM M1,7 x3mm (x3)
AP M1,7 x4mm (x4)
Screwdriver



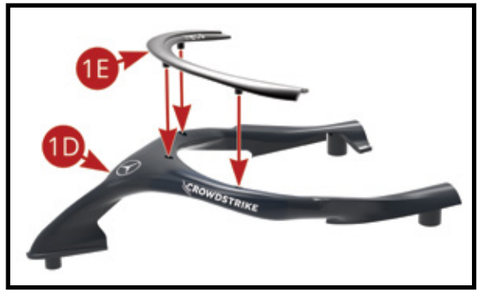
STEP BY STEP

1 Attach Right spoiler (1C R) and Left spoiler (1B L) to Bodywork (1A) and fasten with two AM screws (upper and lower illustrations) .

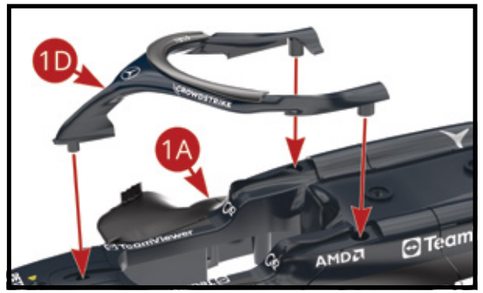




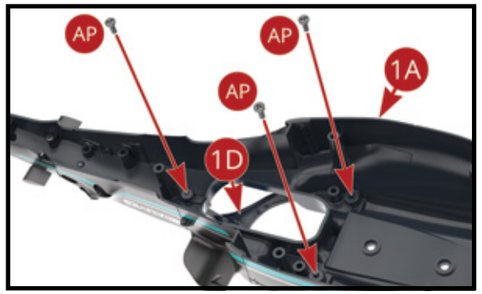
2 Attach Halo spoiler (1 E) to Halo (1D).



3 Attach Halo (1D) to Bodywork (1A)..



4 Fasten Halo (1D) to Bodywork (1A) with three AP screws from below.



5 Halo (1D) is in its place.







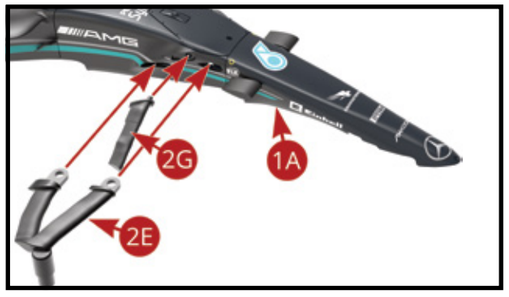
PIECES AND TOOLS

2A Steering column
2B Chassis and cockpit panel
2C Seat
2D Left upper Wishbone
2E Right upper Wishbone
2F Left suspension strut
2G Right suspension strut
2H Track rod
2I Steering wheel
2J U-bracket
2K Left stub axle
2L Right stub axle
BM M2,3 x4mm (x10)
CP M2,0 x6mm (x3)
BP M2,3 x4mm (x2)
AP M1,7 x4mm (x3)

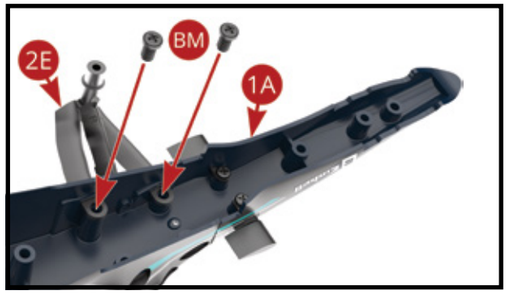


STEP BY STEP

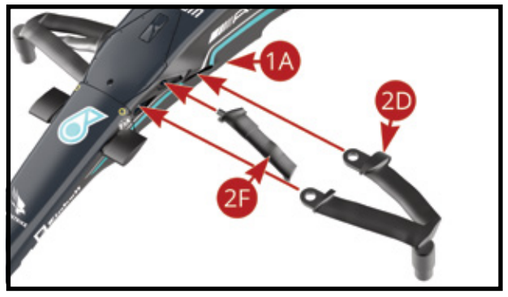
1 Attach Right suspension strut (2G) and Right upper Wishbone (2E) to Bodywork (1ª).



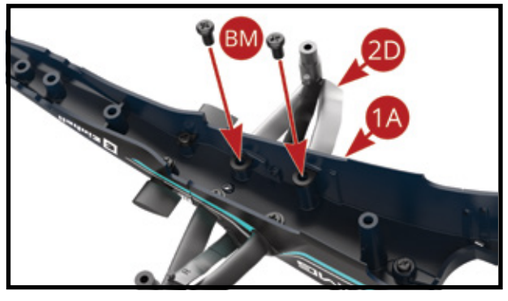
2 Fasten Right upper wishbone (2E) to Bodywork (1A) with two BM screws.



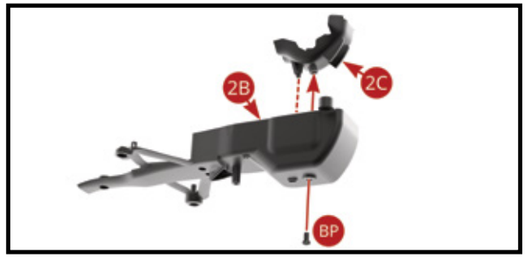
3 Attach Left suspension strut (2F) and Left upper Wishbone (2D) to Bodywork (1ª).



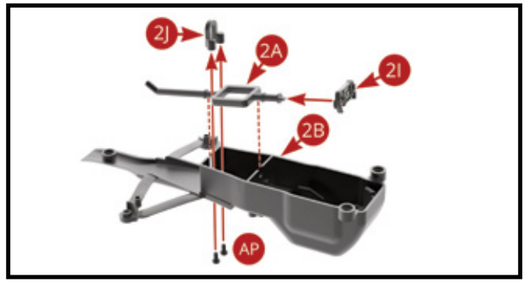
4 Fasten Left upper wishbone (2D) to Bodywork (1A) with two BM screws.



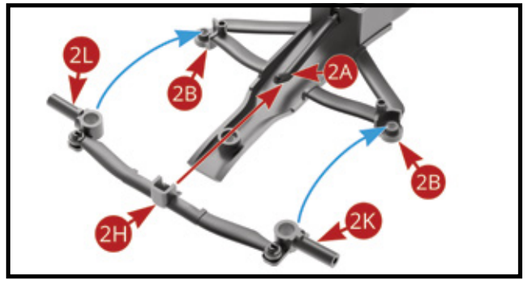
5 Attach Seat (2C) to Chassis and cockpit panel (2B) and fasten with BP screw.

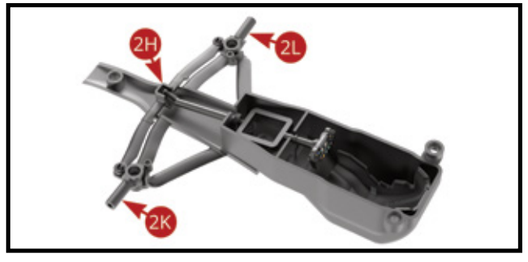


6 Attach Steering wheel (2I) to Steering column (2A). Place Steering column (2A) into Chassis and cockpit panel slots (2B) and secure with U-bracket (2J) and two AP screws.

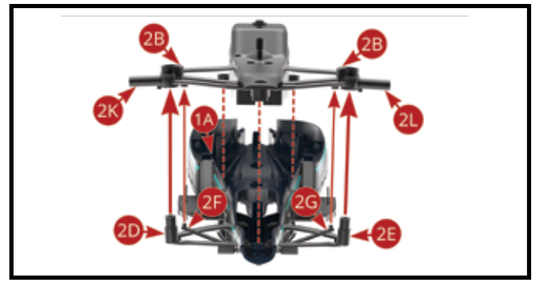


7 Snap Right (2L) and Left stub axles (2K) bearings to Track rod (2H) pegs. Attach Right (2L) and Left stub axles (2K) bearings to Chassis and cockpit panel (2B) wishbone bearings (blue arrows), with Track rod (2H) center cup catching Steering column (2A) end leg.

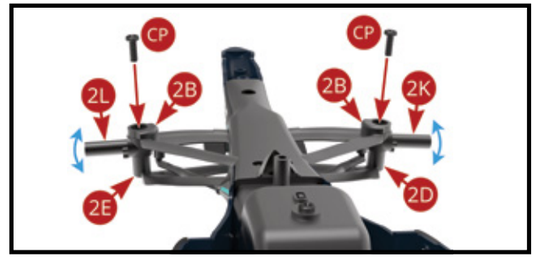




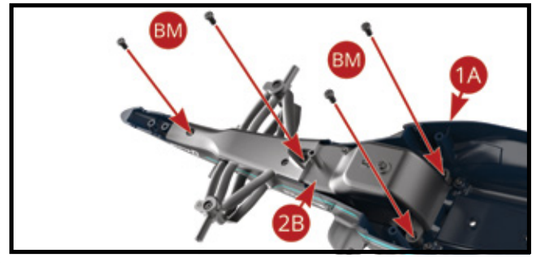
8 Start attaching Chassis and cockpit panel (2B) to Bodywork (1A) by fitting Left (2F) and Right Suspension struts (2G) pegs into Chassis and cockpit panel (2B) wish-bones sockets . Enter Left (2D) and Right upper wishbone (2E) posts into Left (2K) and Right stub axles (2L) bearings.



9 Fasten Left (2D) and Right upper wishbone (2E) posts to Chassis and cockpit panel (2B) wishbone bearings with two Screws (CP). Do not over tighten , allowing Left (2K) and Right stub axles (2L) movement together with the Steering wheel.



10 Fasten Chassis and cockpit panel (2B) to Bodywork (1A) with four screws (BM).





FRONT WING AND SUSPENSION ASSEMBLY AND ATTACHMENT

PIECES AND TOOLS

3A Front wing
3B Left brake guard (marked L)
3C Right brake guard (marked R)
3D Left deflector (marked L)
3E Right deflector (marked R)
3F Left brake disc (marked L)
3G Right Brake disc (marked R)
3H Car #44 water decals
3I Car #63 water decals
BM M2,3 x4mm (x2)
DP M1,7 x3mm (x6)



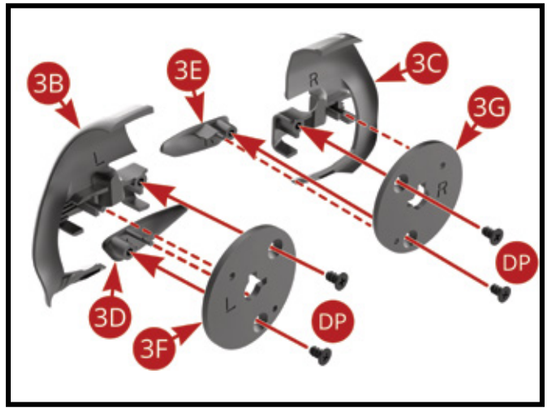
STEP BY STEP

1. Attach Left brake disc (3F) to Left brake guard (3B) and fasten with screw (DP).

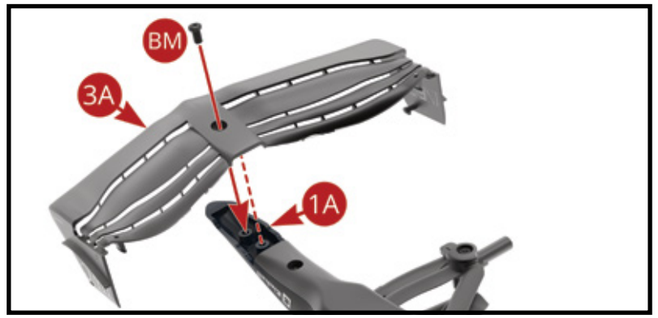
2. Attach Left deflector (3D) to Left brake disc (3F) and fasten with screw (DP).

3. Attach GRight brake disc (3G) to Right brake guard (3C) and fasten with screw (DP).

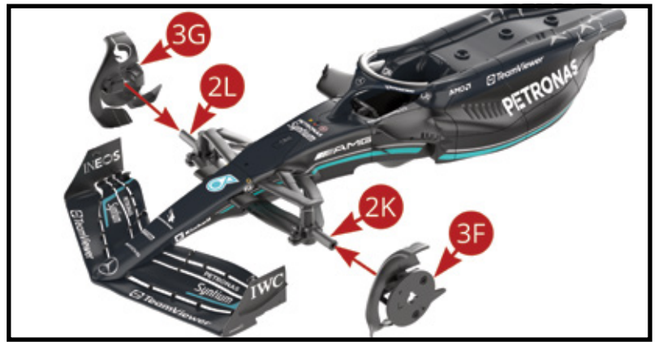
4. Attach Right deflector (3E) to Right brake disc (3G) and fasten with screw (DP).



5. Attach Front wing (3A) to Bodywork (1A) and fasten with screw (BM).



6. Attach Left brake disc (3F) to Left stub axle (2K).
Attach Right brake disc (3G) to Right stub axle (2L).





FRONT WHEELS ASSEMBLY AND ATTACHMENT

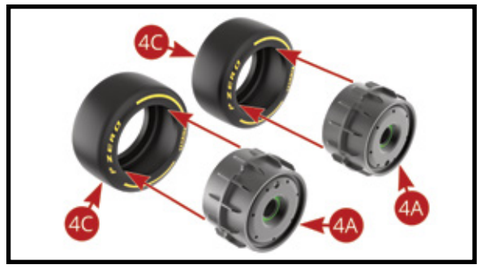
PIECES AND TOOLS

4A Wheel rim (x2)
4B Right Hub cover (Red)
4B Left Hub cover (Golden)
4C Tire (x2)
EP M2,3 x4x5,5mm (x3)

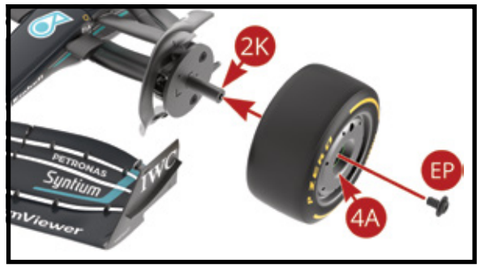


STEP BY STEP

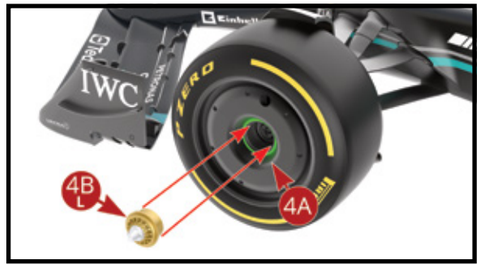
1 Assemble two sets of front wheels by putting Tires (4C) over Wheel rims (4A).



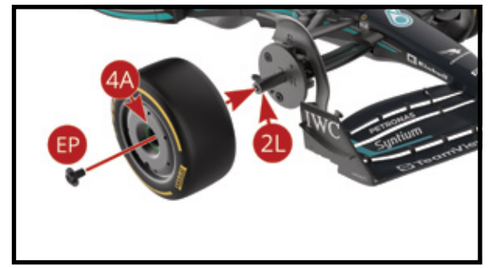
2 On the left side of car place Wheel rim (A4) on 2KLeft stub axle (2K) and fasten with screw (EP) (allow wheel rotation).



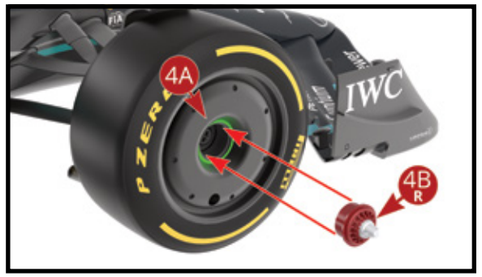
3 Attach Left Hub cover (4B) to Wheel rim (4A).



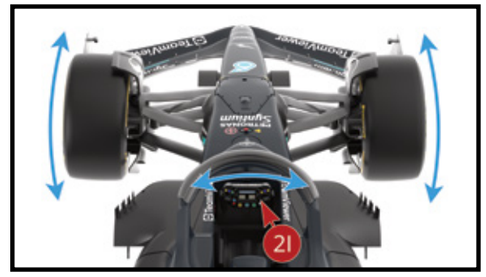
4 On the right side of car place Wheel rim (4A) on Right stub axle (2L) and fasten with screw (EP) (allow wheel rotation).

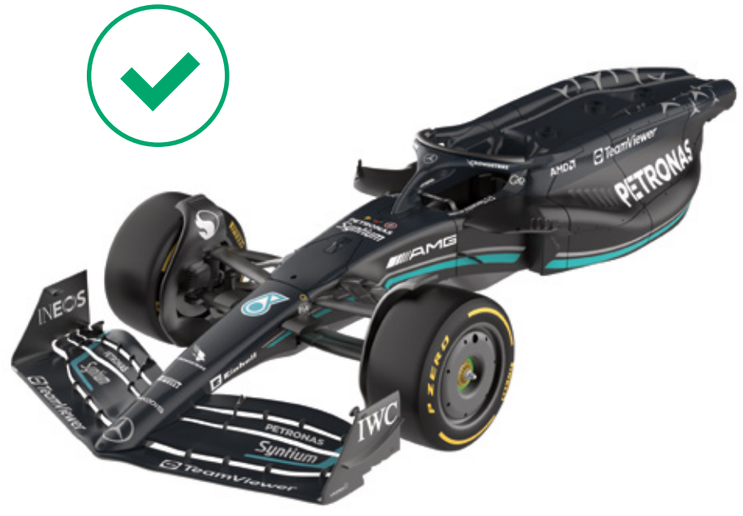


5 Attach Right Hub (4B) cover to Wheel rim (4A).



6 With Steering system and Front wheels in place , turn Steering wheel (21) to check Front wheels turning function.





ENGINE AIR INTAKE AND COVER ASSEMBLY AND ATTACHMENT

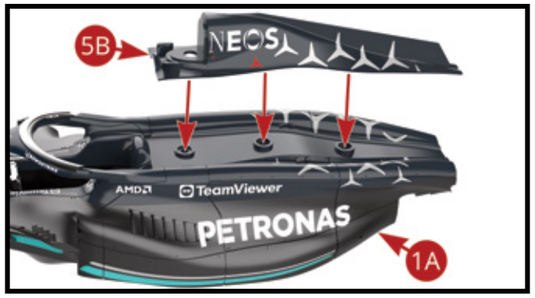
PIECES AND TOOLS

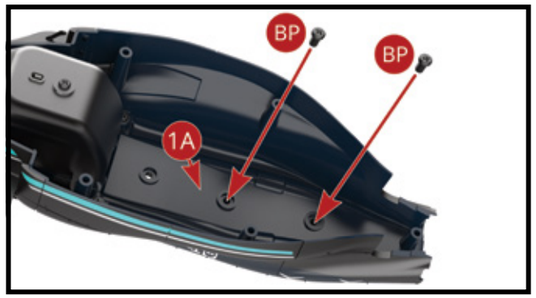
5A Engine air intake
5C Upper camera mount
5D Side camera mount
5B Upper engine cover
HP M1,2 x4mm (x2)
BP M2,3 x4mm (x4)



STEP BY STEP

❶ Attach Upper engine cover (5B) to Bodywork (1A) and fasten from below with two screws (BP) (upper an lower illustrations).

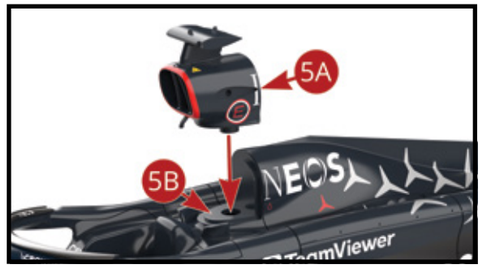




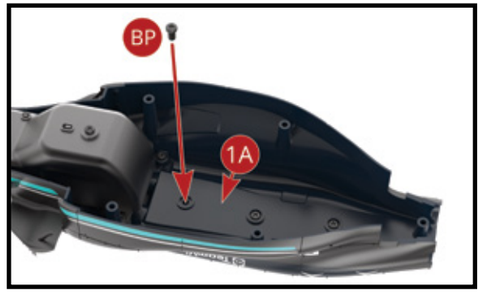
❷ Attach Upper camera mount (5C) to Engine air Intake (5A) and fasten with screw (HP).



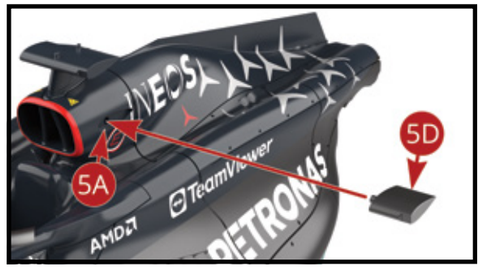
❸ Attach Engine air intake (5A) to Upper engine cover (5B) and fasten from below (next illustration) with screw (BP).



❹ Engine air intake (5A) is being fastened to Bodywork (1A) (this and previous illustration) with screw (BP).



❺ Attach Side camera mount (5D) to Engine air intake (5A) left side.

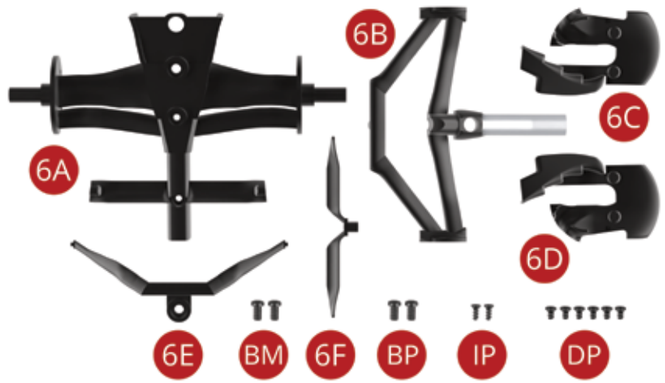




REAR SUSPENSION ASSEMBLY

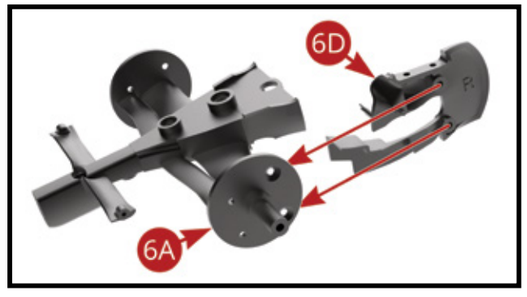
PIECES AND TOOLS

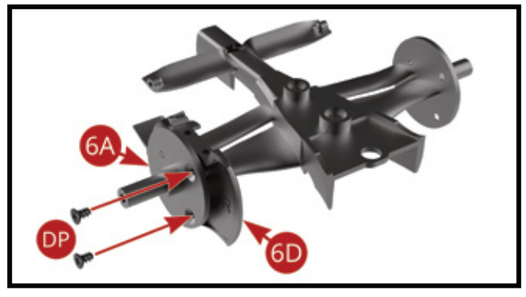
6A Rear suspension
6B Turbine exhaust frame
6C Left brake guard
6D Right brake guard
6E Suspension strut
6F Air flap
BP M2,3 x4mm (x2)
IP M1,5 x4mm (x2)
DP M1,7 x3mm (x6)6F BP IP DP
BM M2,3 x4mm (x2)



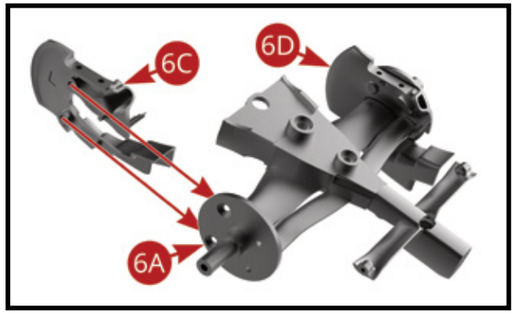
STEP BY STEP

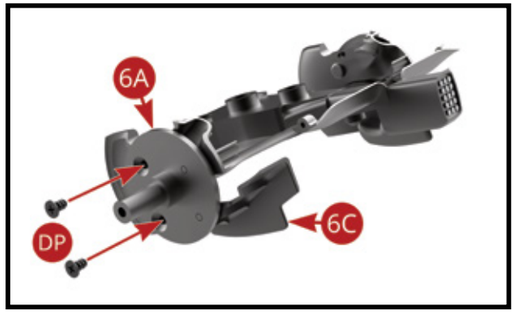
❶ Attach Right brake guard (6D) to Rear suspension (6A) right brake disk inner side on two guiding pins ,and fasten with two DP screws (upper and lower illustrations).



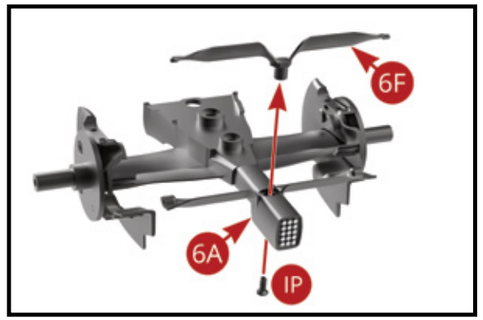


❷ Attach Left brake guard (6C) to Rear suspension (6A) left brake disk inner side on two guiding pins ,and fasten with two DP screws (upper and lower illustrations).

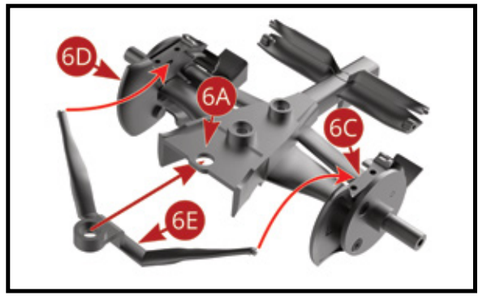




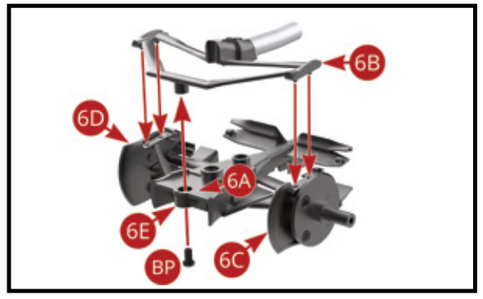
❸ Attach Air flap (6F) across Rear suspension (6A) Rain Light and fasten from below with IP screw.



❹ Align Suspension strut (6E) joint hole to Rear suspension (6A) joint hole , and snap Suspension strut (6E) ends to Left (6C) and Right (6D) brake guards inner top walls' nests.



❺ Attach Turbine exhaust frame (6B) to Right (6D) and Left brake guards (6C) tops and fasten with BP screw passing through Suspension strut (6E) and Rear suspension (6 A) joint.



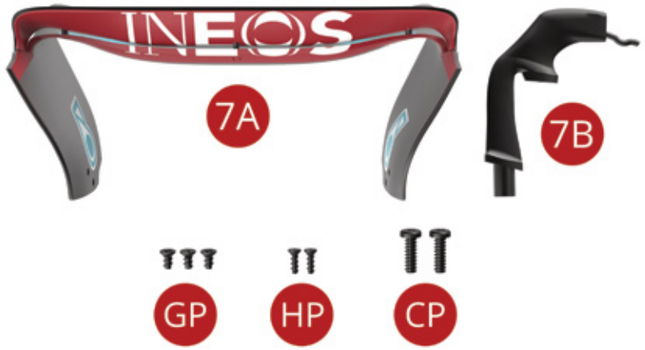
Keep remaining BM screws for later use



REAR WING ATTACHMENT

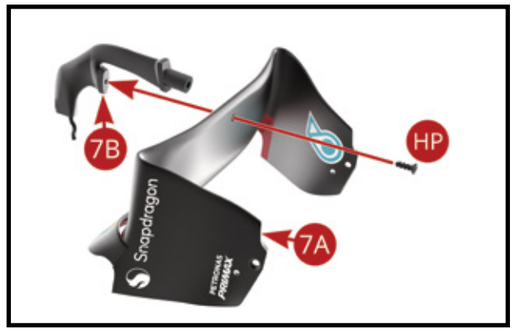
PIECES AND TOOLS

7A Rear wing
7B Anti drag flap post
HP M1,2 x4mm (x2)
GP M1,5 x3mm (x3)
CP M2,0 x6mm (x2)

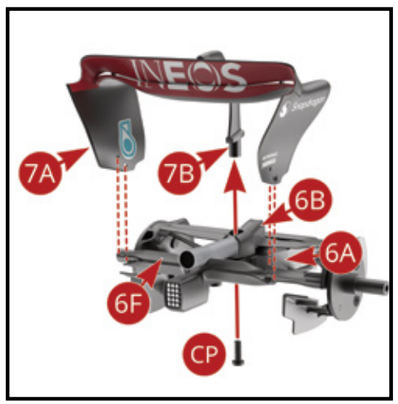


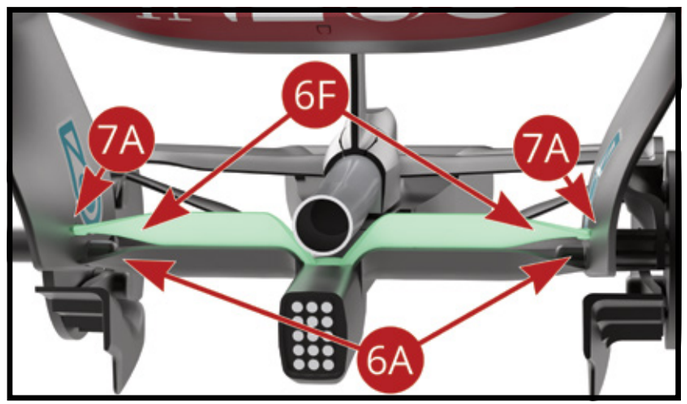
STEP BY STEP

❶ Attach (7B) Anti drag flap post to (7A) Rear wing and fasten with HP screw

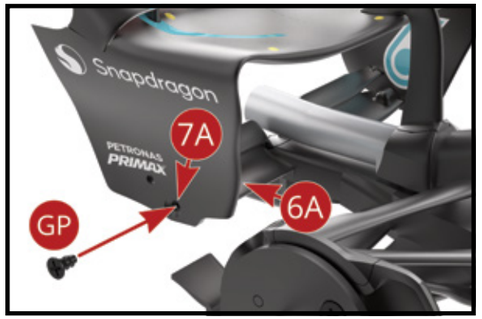


❷ Attach Anti drag flap post (7B) to Turbine exhaust frame (6B) and fasten from below to Rear suspension (6A) frame with screw (CP). Snap air flap (6F) guiding pins and align Rear suspension flap ends to Rear wing (7A) attachment holes (upper and lower illustrations).

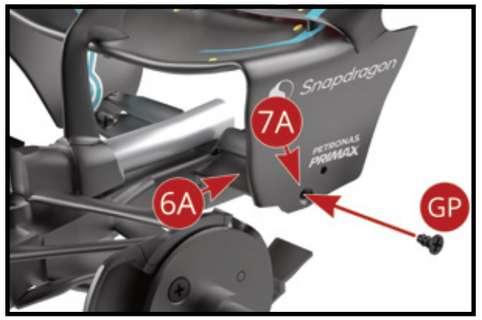




❸ Fasten the right side of Rear wing (7A) to Rear suspension (6A) flap with GP screw.



❹ Fasten the right side of Rear wing (7A) to Rear suspension (6A) flap with GP screw.







REAR WHEELS ASSEMBLY AND ATTACHMENT

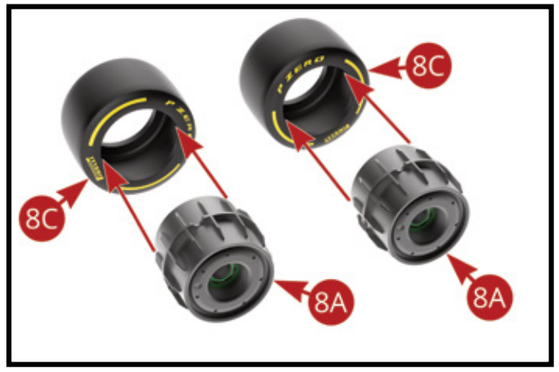
PIECES AND TOOLS

8A Wheel rim (x2)
8B Right Hub cover (Red)
8B Right Hub cover (Golden)
8C Tire (x2)
EP M2,3 x4x5,5mm

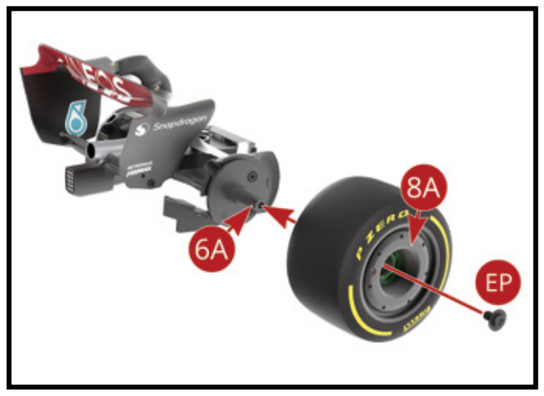


STEP BY STEP

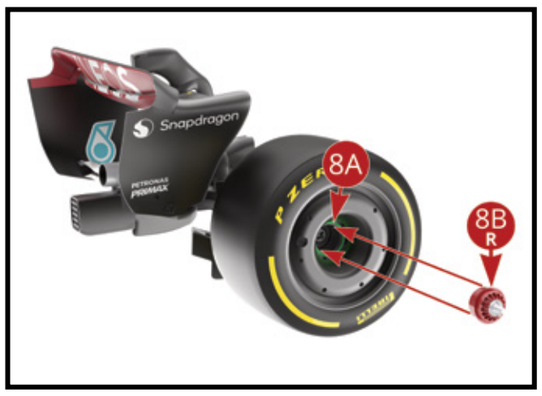
❶ Assemble two sets of front wheels by putting Tires (8C) over Wheel rims (8A).



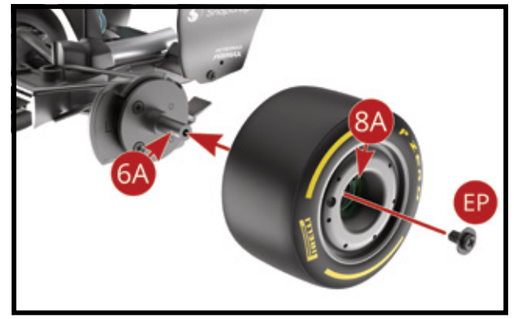
❷ Place Wheel rim (8A) on Rear suspension (6A) right side stub axle and fasten with EP screw (allow wheel rotation).



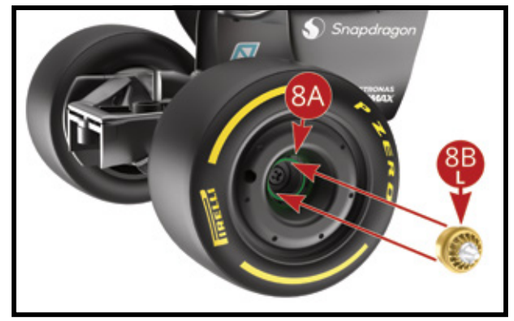
❸ Attach Right Hub cover (8B R) to Wheel rim (8A).



❹ Place Wheel rim (8A) on Rear suspension (6A) left side stub axle and fasten with EP screw (allow wheel rotation).



❺ Attach Left Hub cover (8B) to Wheel rim (8A).





REAR SUSPENSION WITH WING , FRONT FARING AND FLOOR WITH DIFFUSOR ATTACHMENT TO CHASSIS.

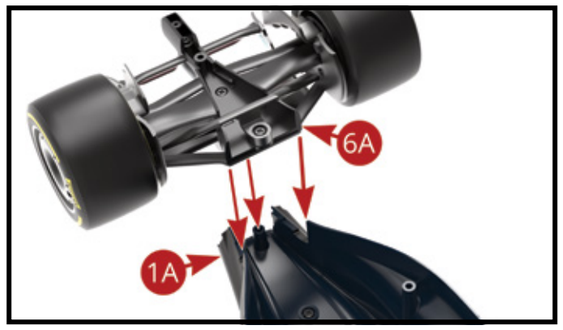
PIECES AND TOOLS

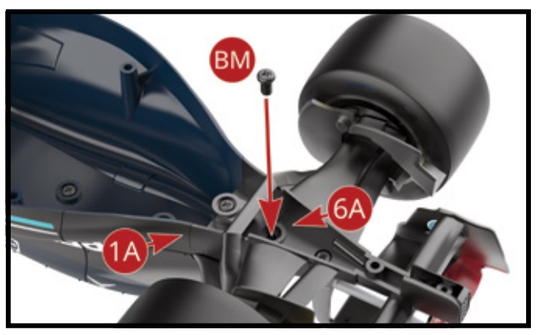
9A Floor with diffusor
9B Front fairing
BM M2.3 x4mm (x6)
BP M2.3 x4mm (x3)
AP M1.7 x4mm (x2)



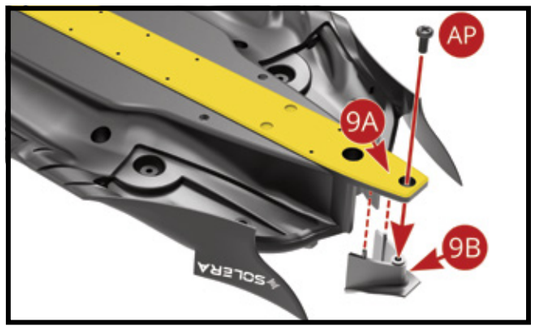
STEP BY STEP

❶ Attach Rear suspension (6A) to Bodywork (1A) and fasten with BM screw, upper and lower illustrations.

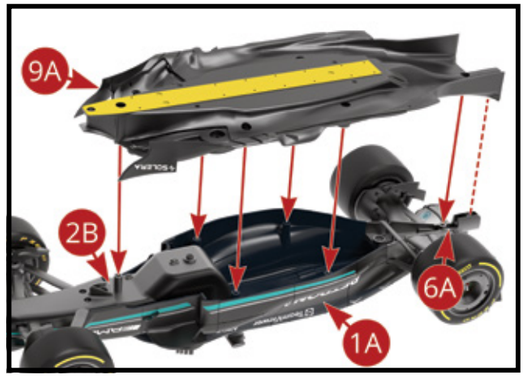




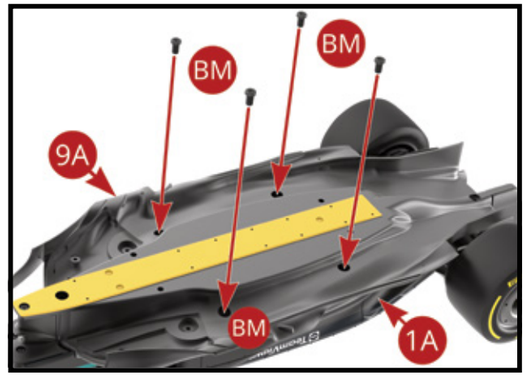
❷ Attach Front fairing (9B) to Floor with diffusor (9A) and fasten with AP screw



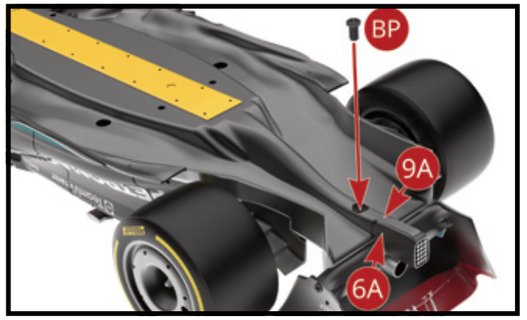
❸ Attach Floor with diffusor (9A) to Chassis and cockpit panel (2B), Bodywork (1A) and Rear suspension frame (6A).



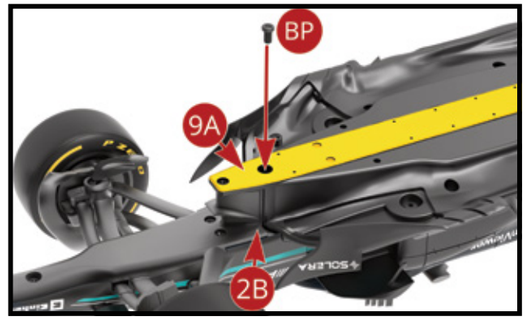
❹ Fasten Floor with diffusor (9A) to the Bodywork (1A) with four BP screws.



❺ Fasten Floor with diffusor (9A) to Rear suspension (6A) frame with BP screw.



❻ Fasten Floor with diffusor (9A)to Chassis and cockpit panel (2B) with BP screw .



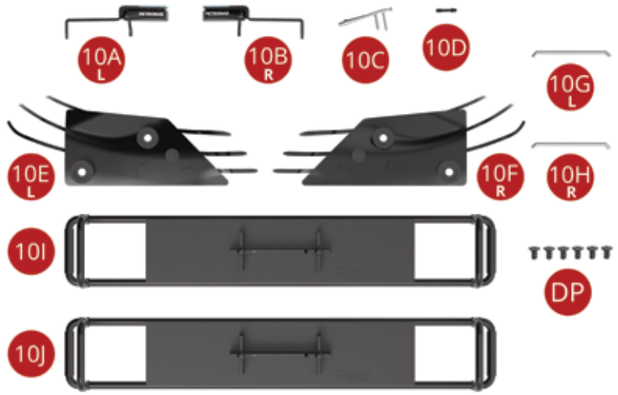




REAR VIEW MIRRORS, BARGE BOARDS, ANTENNAS, TIE RODS, JACK STANDS AND DECALS ATTACHMENT AND APPLICATION

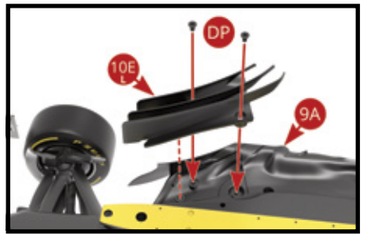
PIECES AND TOOLS

10A Left rear view mirror (L)
10B Right rear view mirror (R)
10C Speed meter
10D Antenna
10E Left barge board (Marked L)
10F Right barge board (Marked R)
10G Left tie rod (L)
10H Right tie rod (R)
10I Front jack stand
10J Rear jack stand
DP M1,7 x3mm (x6)

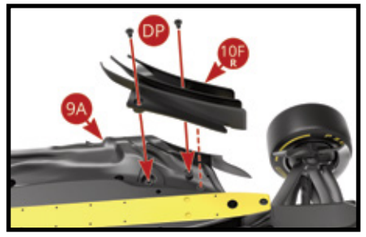


STEP BY STEP

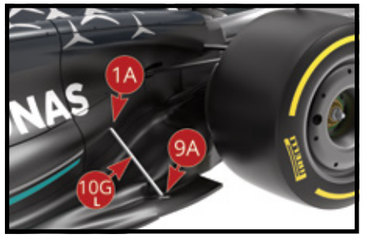
❶ Attach Left barge board (10E L) to Floor with diffusor (9A) and fasten with two screws (DP).



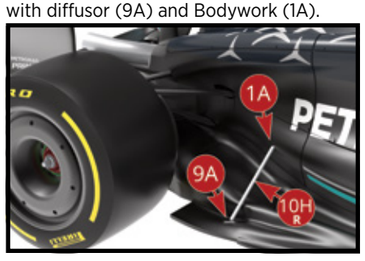
❷ Attach Left barge board (10F R) to Floor with diffusor (9A) and fasten with two screws (DP).



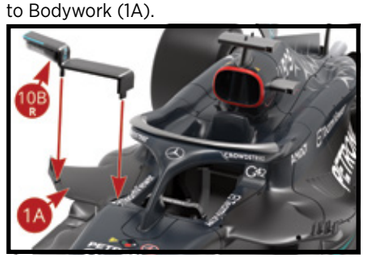
❸ Attach Left tie rod (10G L) to Floor with diffusor (9A) and Bodywork (1A).



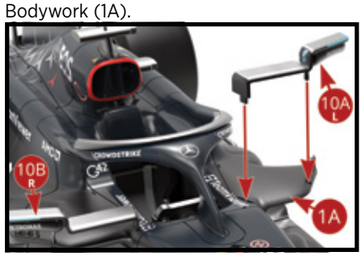
❹ Attach Right tie rod (10H R) to Floor with diffusor (9A) and Bodywork (1A).



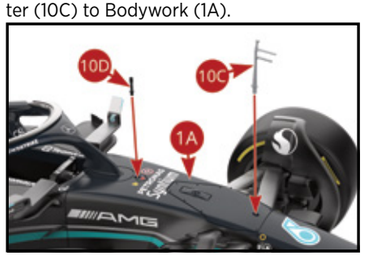
❺ Attach Right rear view mirror (10B R) to Bodywork (1A).



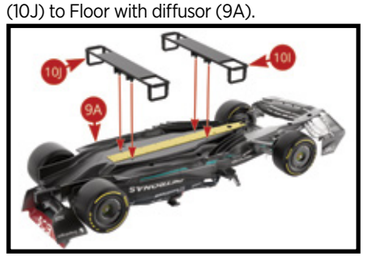
❻ Attach Left rear view mirror (10A L) to Bodywork (1A).



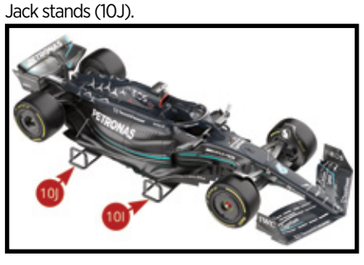
❼ Attach Antenna (10D) and Speed meter (10C) to Bodywork (1A).



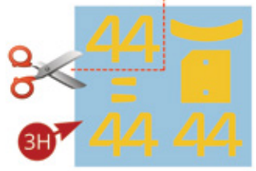
❽ Attach Front (10I) and Rear Jack stands (10J) to Floor with diffusor (9A).

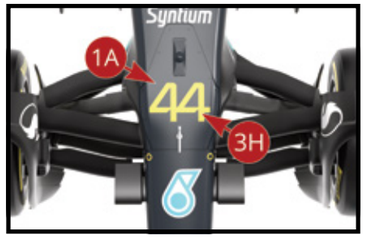


❾ Car is supported by Front (10I) and Rear Jack stands (10J).

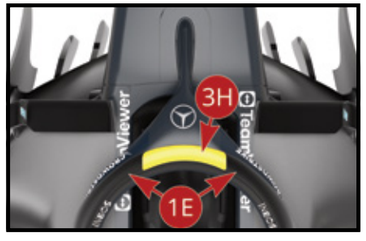


❿ Choose Car # 44 (3H) or Car # 63 (3I) decals sheet to proceed with custom decals application . As example we choose Car #44 decals sheet (3H) . Cut out bigger #44 , put in water for 30 seconds , and slide on Bodywork (1A) location as shown on next illustration. Move decal to its position while wet , and carefully tap away excess water with a cotton pad.



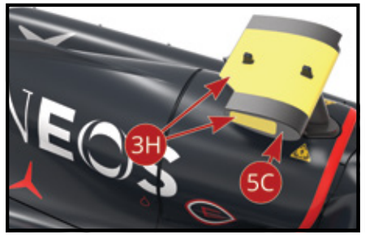


⓫ Cut out Curved bar from Car #44 water decal (3H) and apply on Halo spoiler (1E) center area.





⓬ Cut out from Car #44 water decal (3H) and apply on Upper camera mount (5C) one top and two side decals as shown on upper and lower illustrations.





⓭ Cut out from Car #44 water decal (3H) and apply on Upper engine cover (5B) fin side number 44 decals as shown on upper and lower illustrations.

