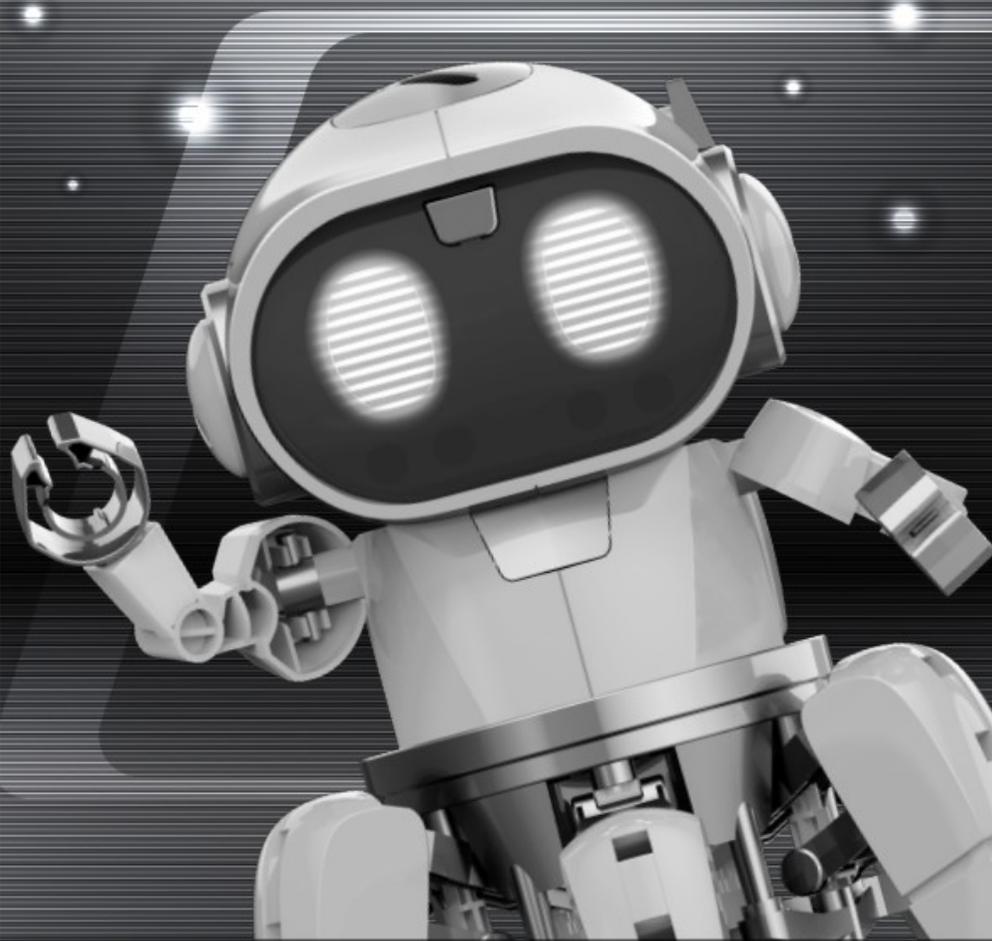


# Tobbie Robot

◦Your adorable smart friend◦



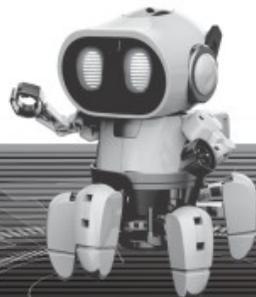
Assembly & Instruction  
**Manual**

**Instructions de montage**

Disponible en  
anglais - néerlandais - français - allemand - espagnol - polonais - portugais  
sur [www.velleman.eu](http://www.velleman.eu)

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# Tobbie The Robot

## Product Introduction

Tobbie is an intelligent six legs robot which provides great interaction with children. Tobbie has two programmed modes to follow or avoid objects. In "Follow Me" mode, Tobbie follows the object which ever approaches it, and makes it feels like an obedient pet. Possessing IR auto detect, Tobbie can avoid obstacle in the "Explore" mode and find a new route to keep moving. The little robot offers wonderful sound and light effect which develops its own emotions and gestures, just like a living pet.

Try to challenge Tobbie and figure out what it can do. Create a maze for it or allow it to follow you. Most of all, do not treat it as a normal robot, but an adorable smart friend.

## Tools You May Need

Diagonal Cutter



Screwdriver



Battery(AAA) x 4



Alkaline batteries are recommended

## Mechanical Parts List

**!** Product contains functional edges and sharp points.

P1	Pinion Gear(White)	P2	Gear 32/10T(Gray)	P3	Gear 32T(Blue)
					
	QTY		QTY		QTY
	2		1		1
P4	Gear 36/14T(Green)	P5	Gear 36/14T(White)	P6	Gear 36T(Orange)
					
	QTY		QTY		QTY
	1		2		1

# Tobbie Le Robot

## Introduction

Tobbie le robot à 6 jambes deviendra un véritable compagnon pour votre enfant tout en lui offrant une expérience de la robotique instructive. Tobbie comporte 2 modes programmés qui lui permettent de suivre des objets ou d'éviter des obstacles. En mode "Suivez-moi", le robot intelligent suit l'objet qui s'en approche, tout comme un animal domestique. Grâce à la détection IR automatique, Tobbie peut éviter des obstacles en mode "Explorer" et trouver un nouvel itinéraire. L'adorable petit robot offre des effets sonores et lumineux sympathiques et réagit avec ses propres gestes et émotions.

Essayez de défier Tobbie et de comprendre ce qu'il peut faire. Créez un labyrinthe ou permettez-lui de vous suivre. Mais surtout, ne le traitez pas comme un robot normal, mais comme votre nouvel ami.

## Outils nécessaires

Pince coupante

Tournevis

Pile (AAA) x 4

Piles alcalines recommandées

## Liste des pièces mécaniques

Pignon-engrenage (Blanc)

Engrenage 32/10T (Gris)

Engrenage 32T (Bleu)

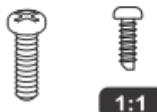
Engrenage 36/14T (Vert)

Engrenage 36/14T (Blanc)

Engrenage 36T (Orange)

<b>P7</b>	<b>Gear 40/10T(Pink)</b>	<b>QTY</b>
		1

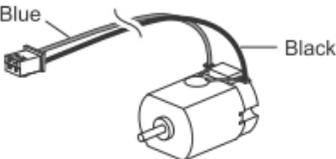
<b>P8</b>	<b>Gear 10T(Orange)</b>	<b>QTY</b>
		2

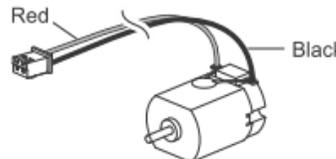
<b>P9</b>	<b>Tapping Screw</b>	<b>QTY</b>
		20
		1:1

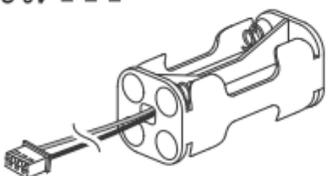
<b>P10</b>	<b>Tapping Screw</b>	<b>QTY</b>
		4
		1:1

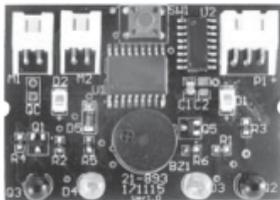
<b>P11</b>	<b>Shaft ( Short )</b>	<b>QTY</b>
		3
		(1:1)

<b>P12</b>	<b>Shaft ( Long )</b>	<b>QTY</b>
		2
		(1:1)

<b>P13</b>	<b>Motor With Connector</b>	<b>QTY</b>
		1
		Black

<b>P14</b>	<b>Motor With Connector</b>	<b>QTY</b>
		1
		Black

<b>P15</b>	<b>Battery Holder With Connector</b>	<b>QTY</b>
		1
DC 6V		

<b>P16</b>	<b>PC Board</b>	<b>QTY</b>
		1

<b>P17</b>	<b>Sticker</b>	<b>QTY</b>
		1

Engrenage 40/10T (Rose)

Engrenage 10T (Orange)

Vis taraudeuse

Vis taraudeuse

Axe (Court)

Axe (Long)

Moteur avec connecteur

Moteur avec connecteur

Bleu      noir

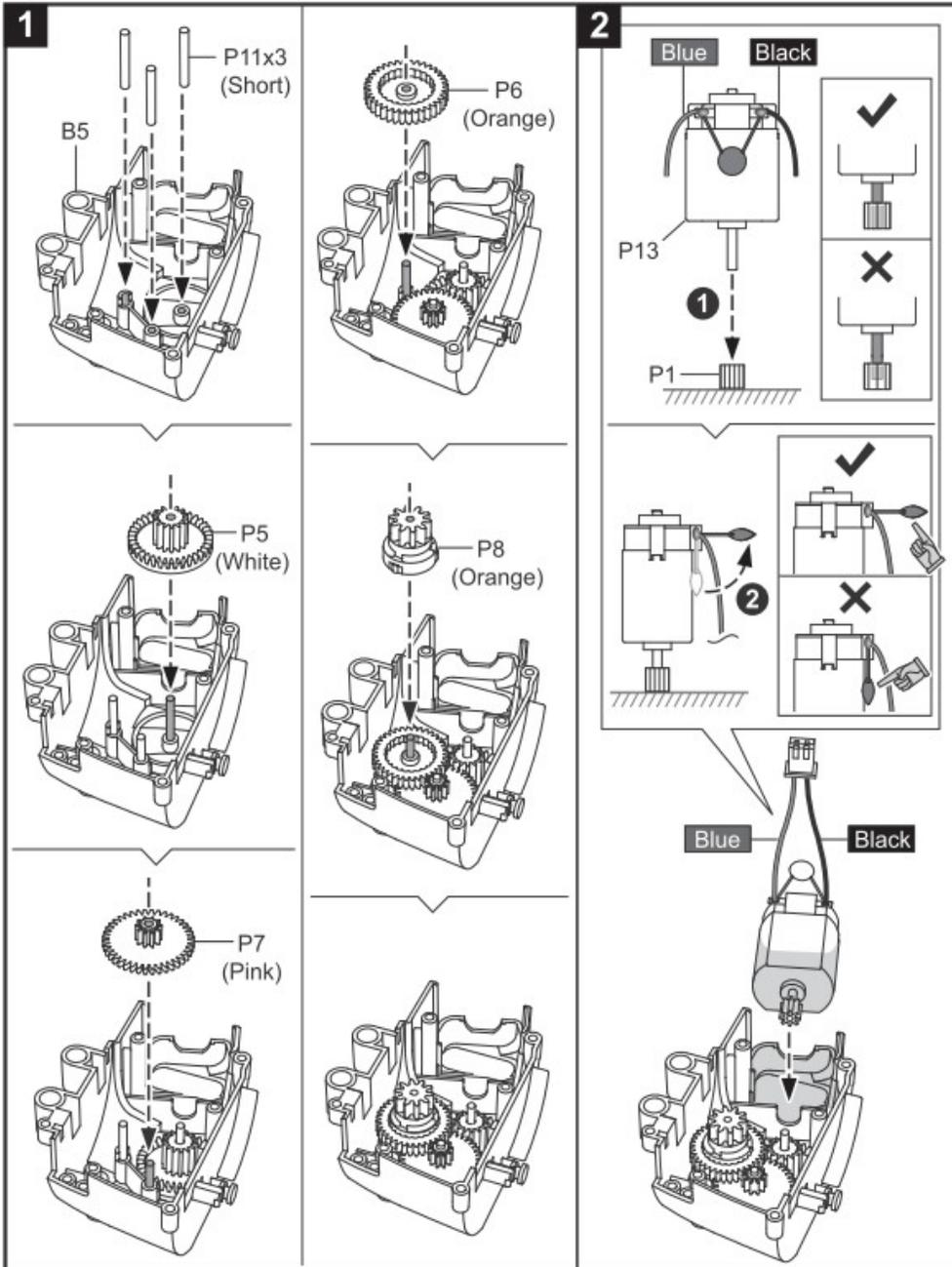
Rouge      noir

Support pour piles avec connecteur

PCB

Autocollant

## Body Module Assembly



## Montage du corps

P11x3 (Court)

P6 (Orange)

Bleu

noir

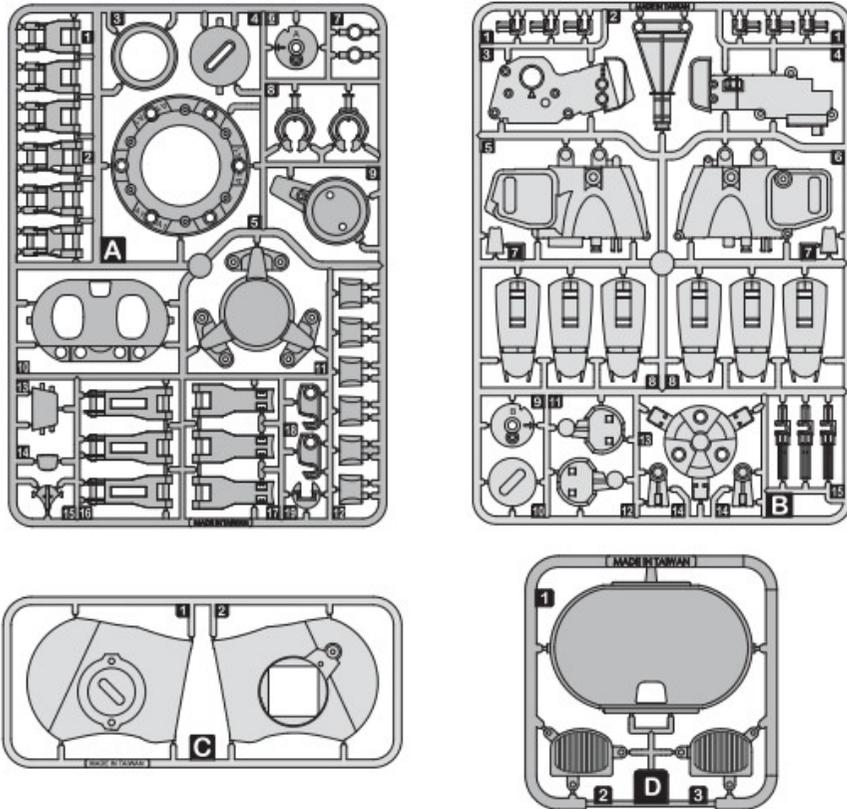
P5 (Blanc)

P8 (Orange)

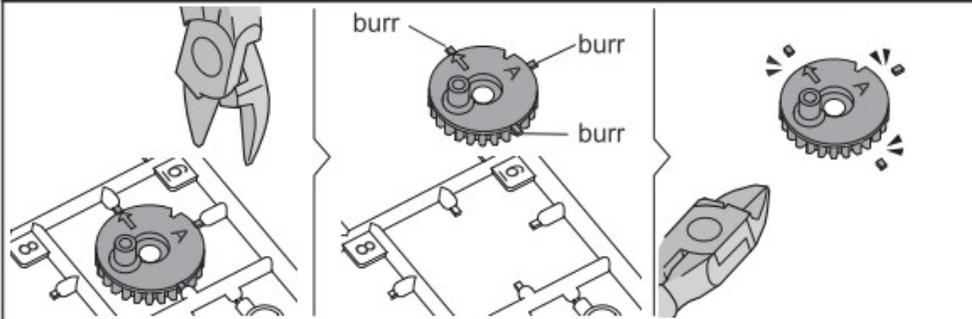
P8 (Orange)

## Plastic Parts

**!** Cut the plastic parts when they are required. Do not cut them in advance.



**!** Tip: cut off the burrs before assembly

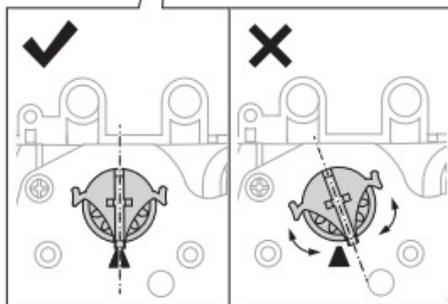
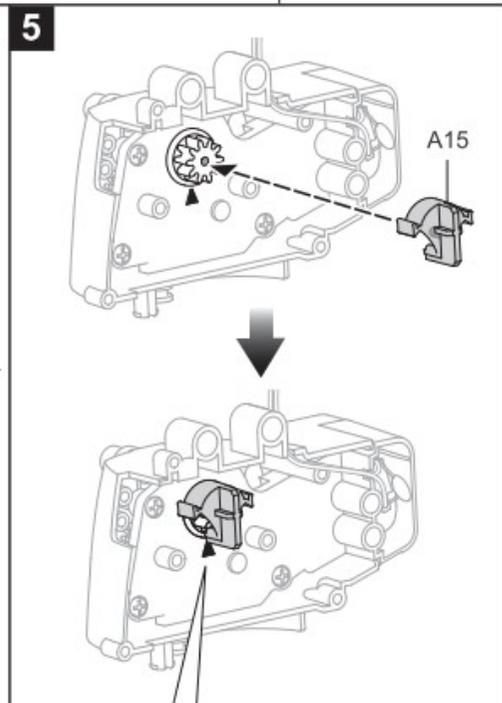
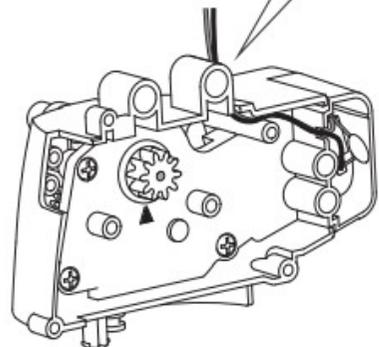
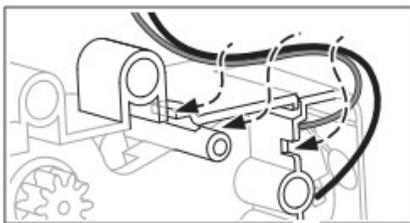
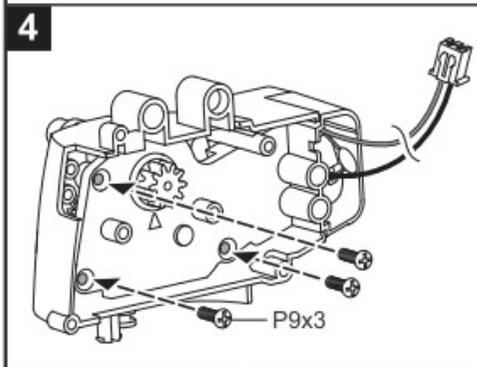
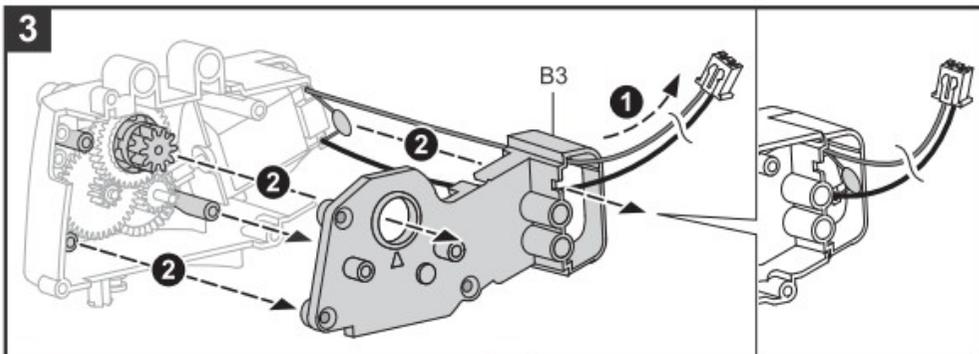


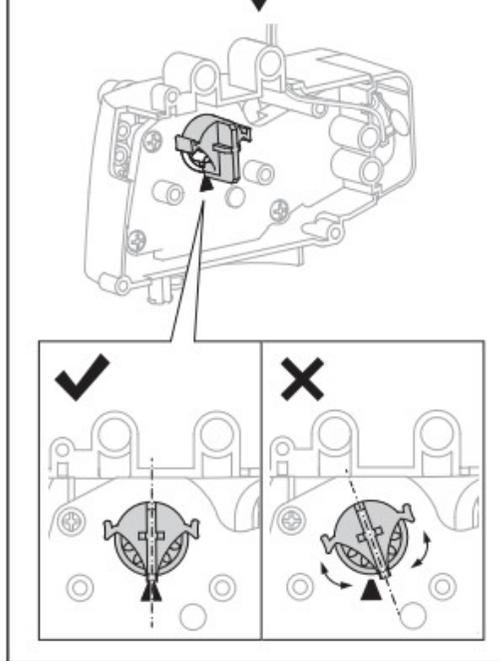
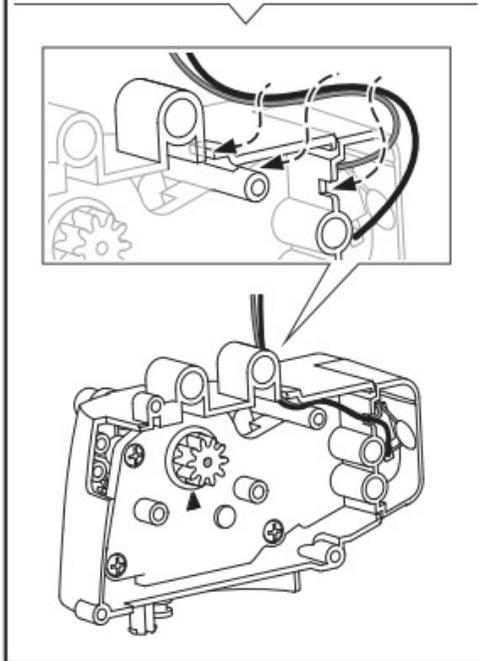
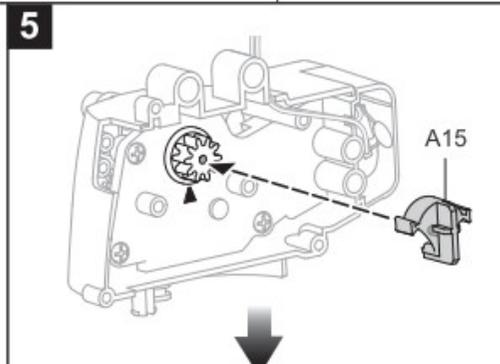
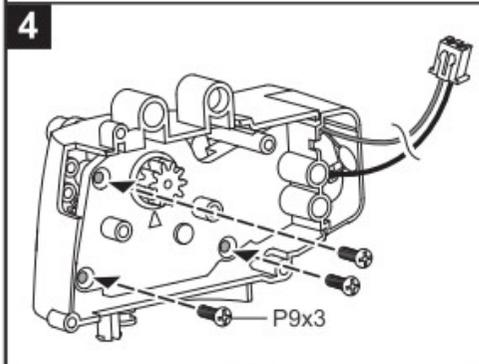
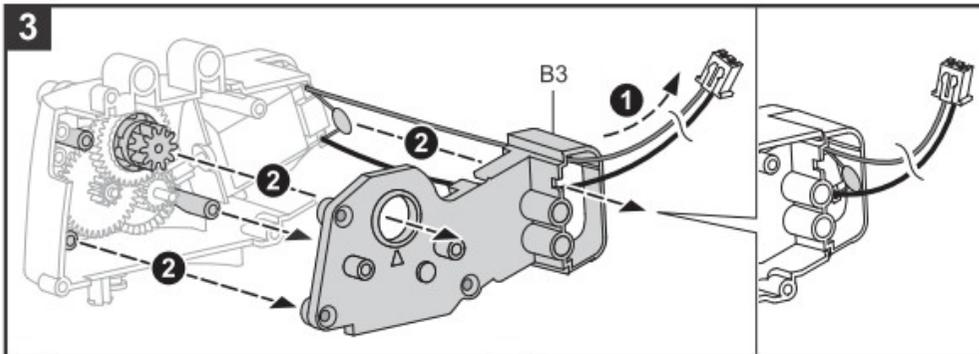
## Pièces en plastique

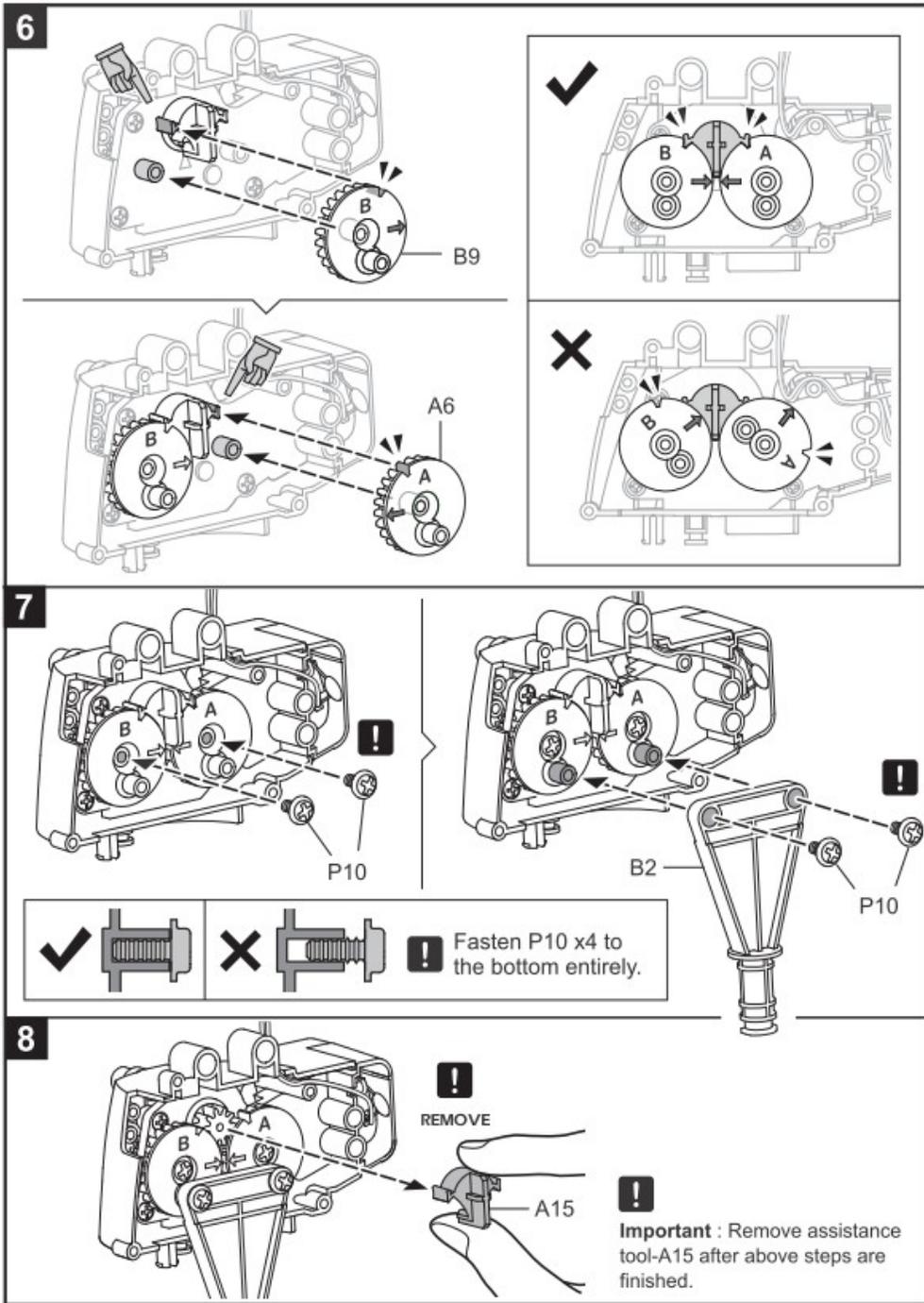
Couper les pièces en plastique au fur et à mesure du montage. Ne pas couper les pièces en avance.

Couper les ébarbures des pièces avant le montage

Ebarbure



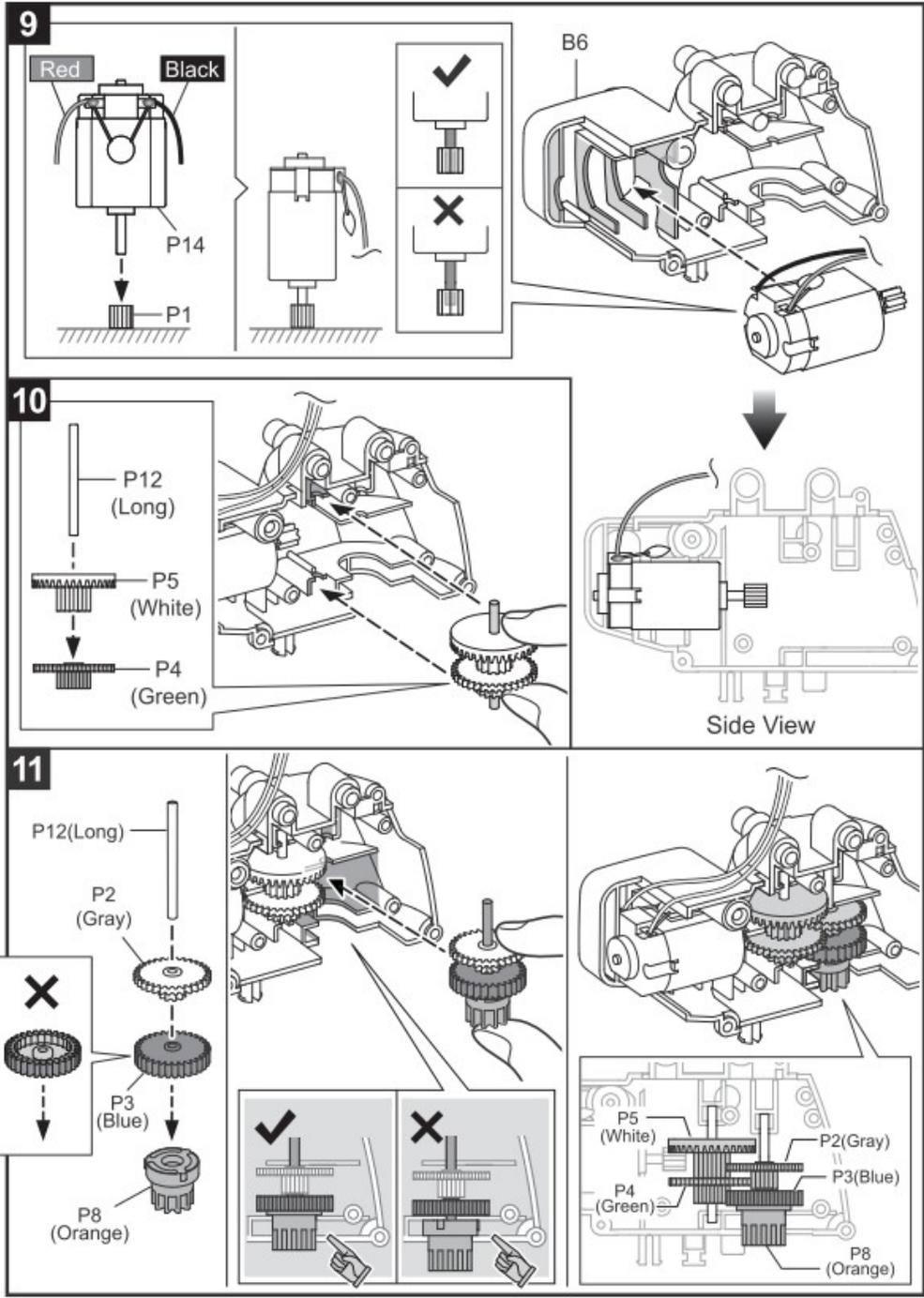




Insérer P10 X4 à fond

Retirer

Important : Retirer l'outil d'aide (A15) après avoir effectué les étapes ci-dessus.



Rouge

noir

P12 (Long)

P5 (Blanc)

P4 (Vert)

Vue latérale

P12 (Long)

P2 (Gris)

P3 (Bleu)

P8 (Orange)

P5 (Blanc)

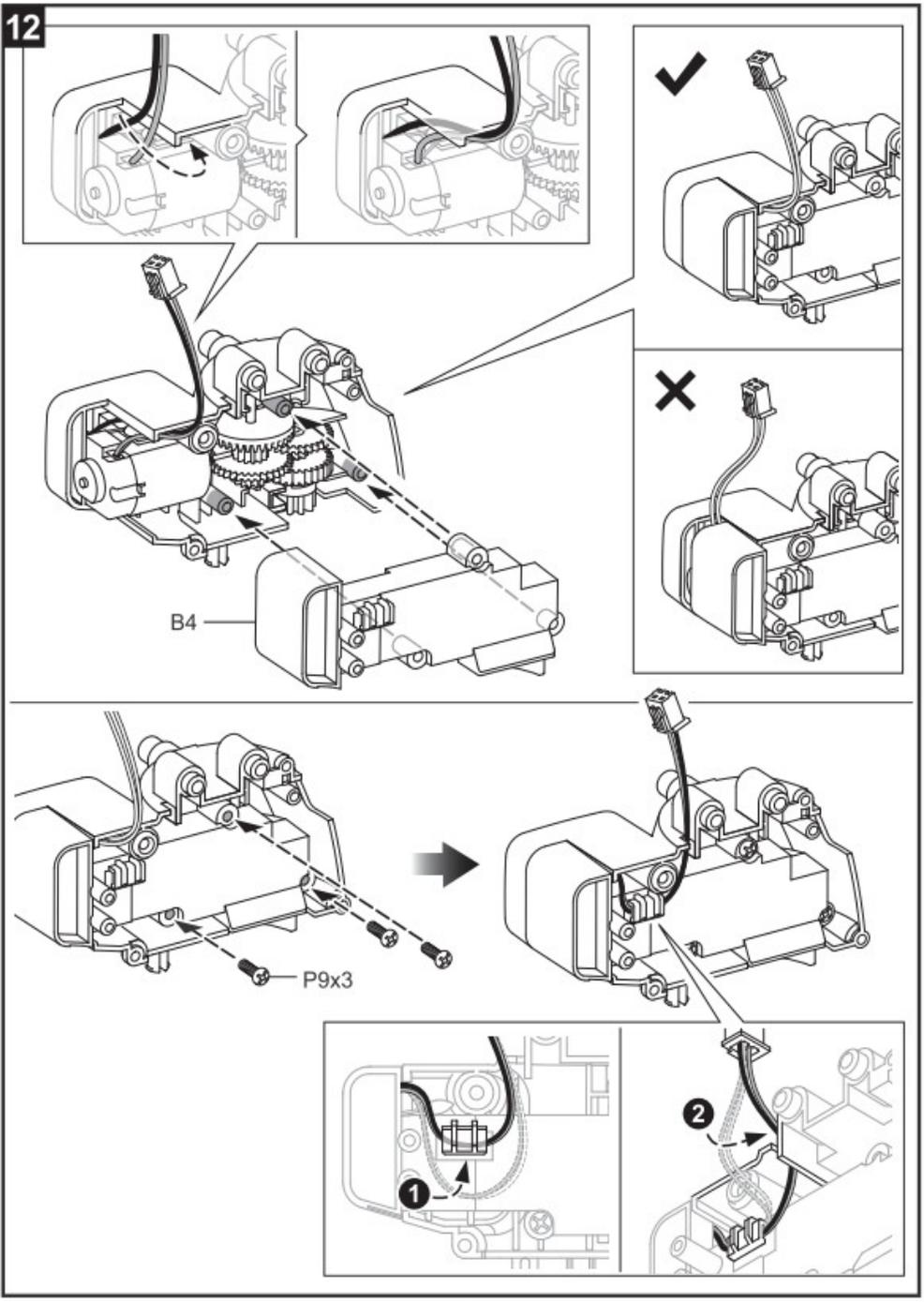
P2 (Gris)

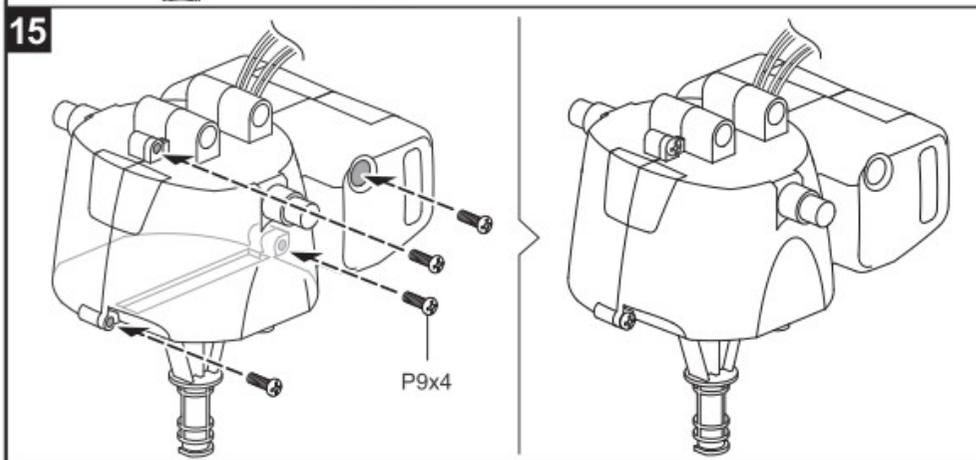
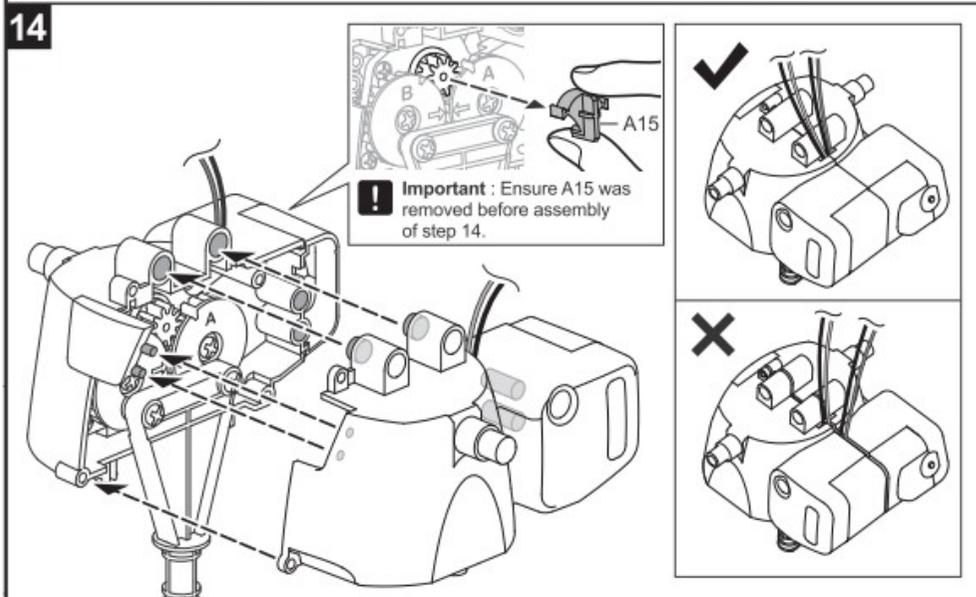
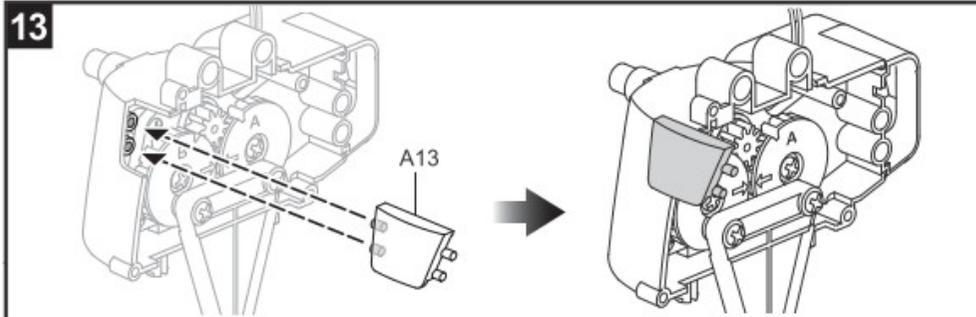
P4 (Vert)

P3 (Bleu)

P8 (Orange)

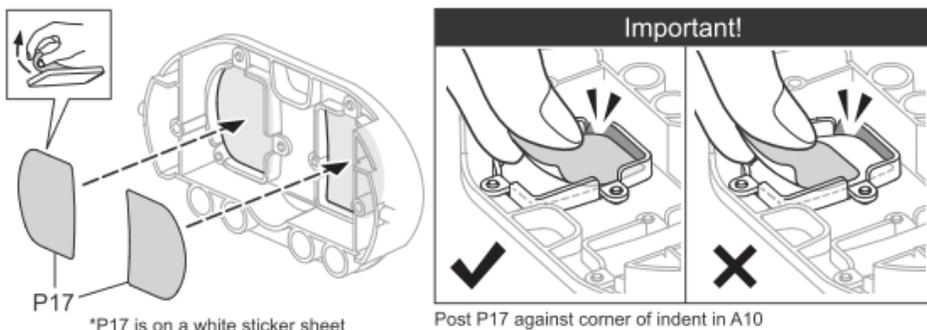
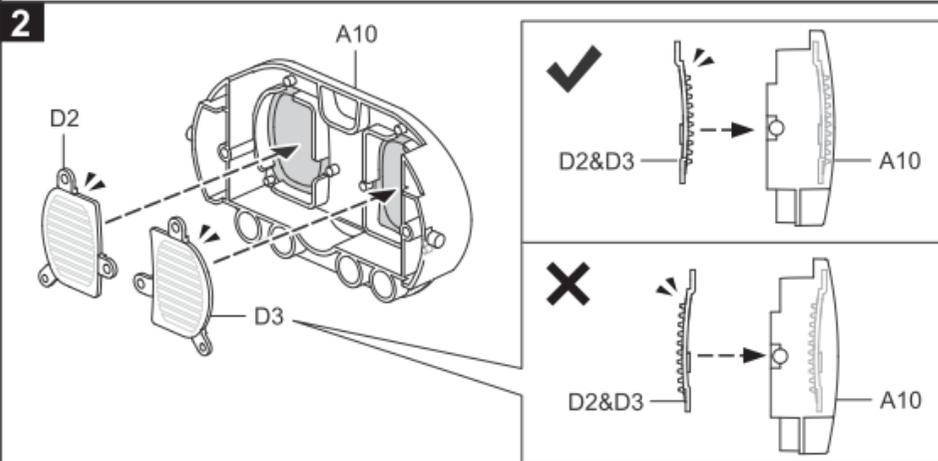
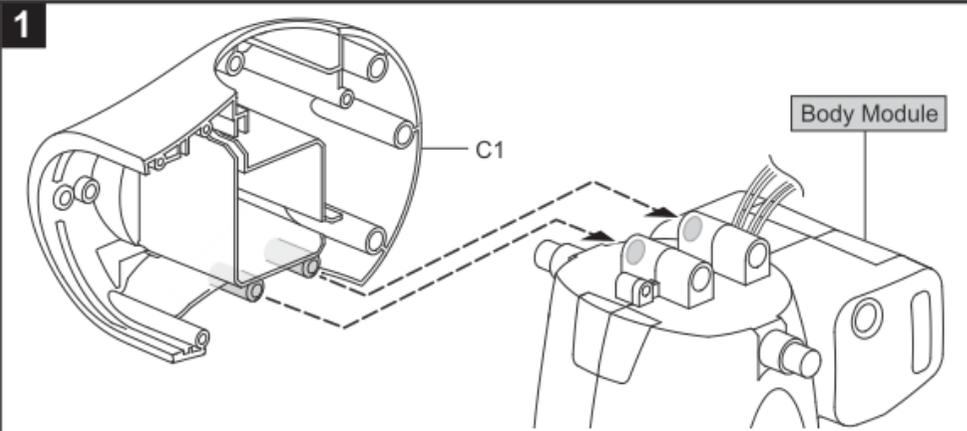
12





Important : Vérifier que A15 a été retiré avant de commencer l'étape 14.

## Head Module Assembly

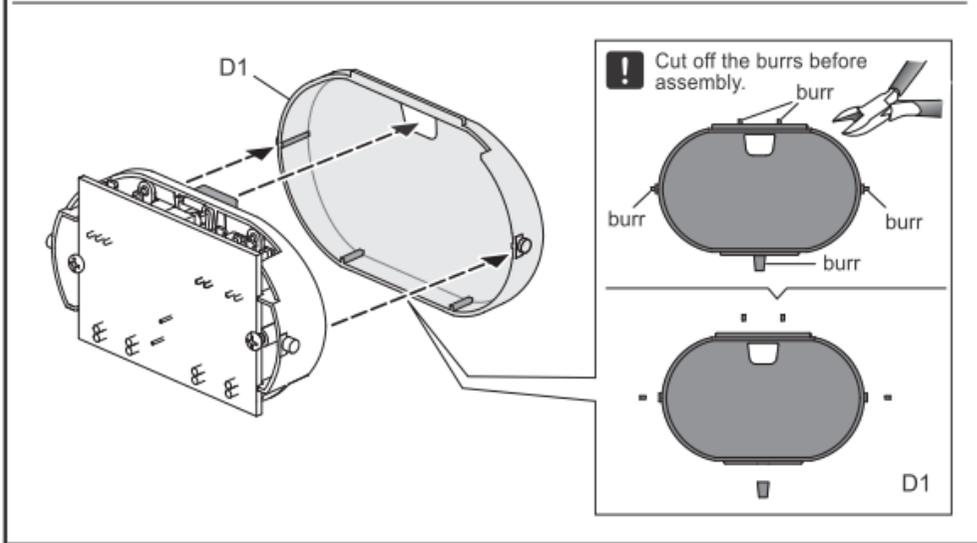
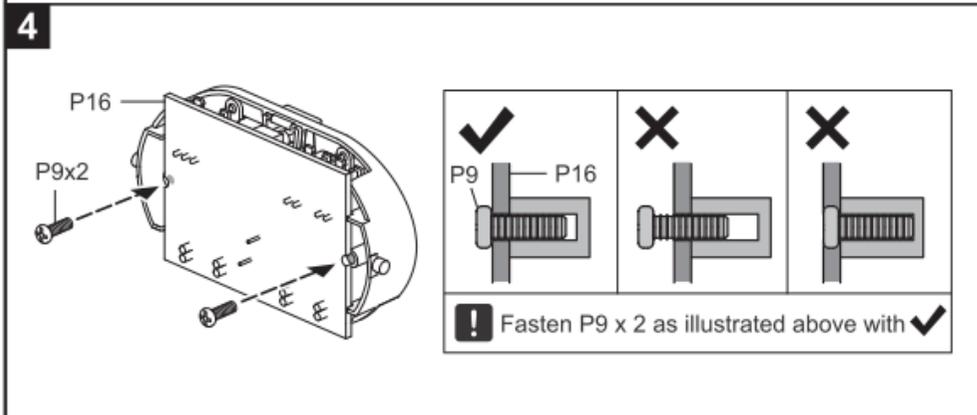
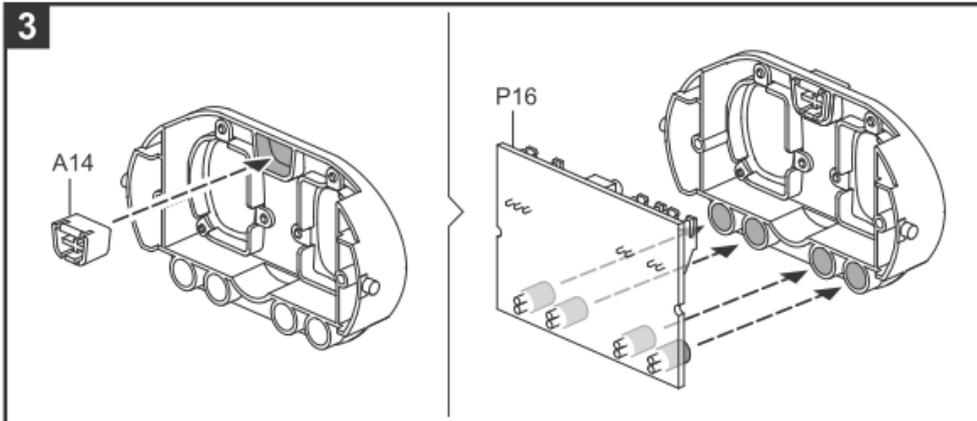


## Montage de la tête

Montage du corps

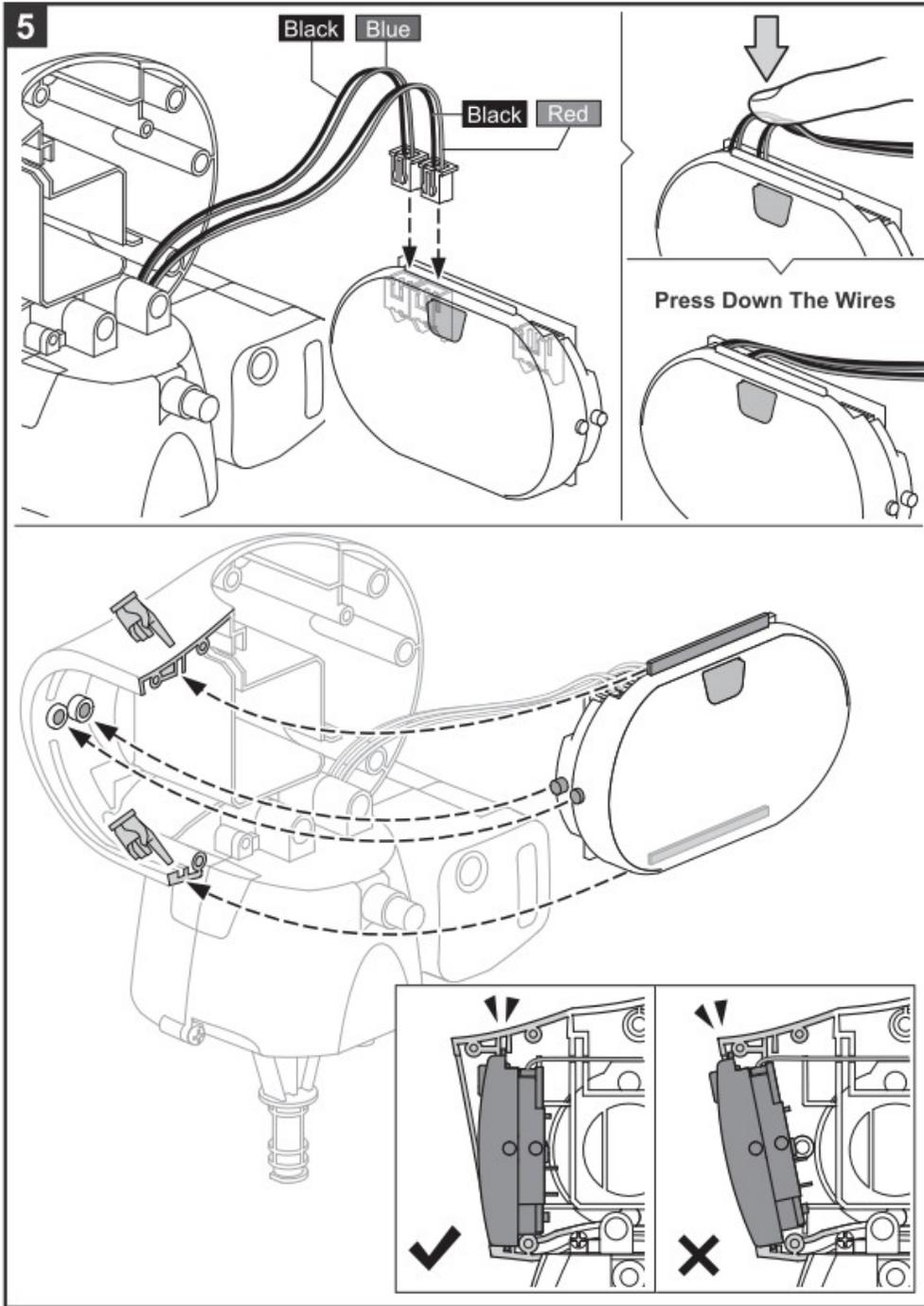
**IMPORTANT**

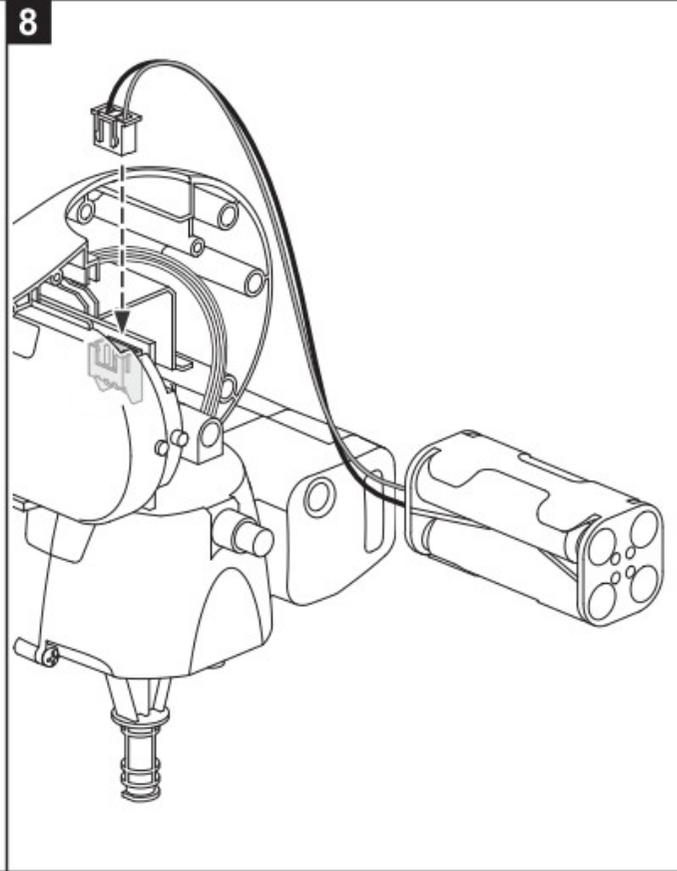
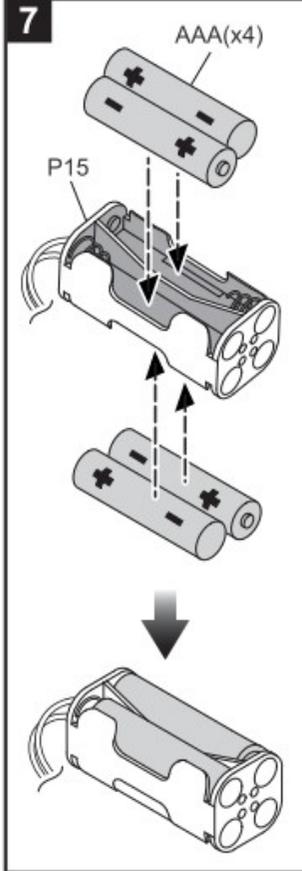
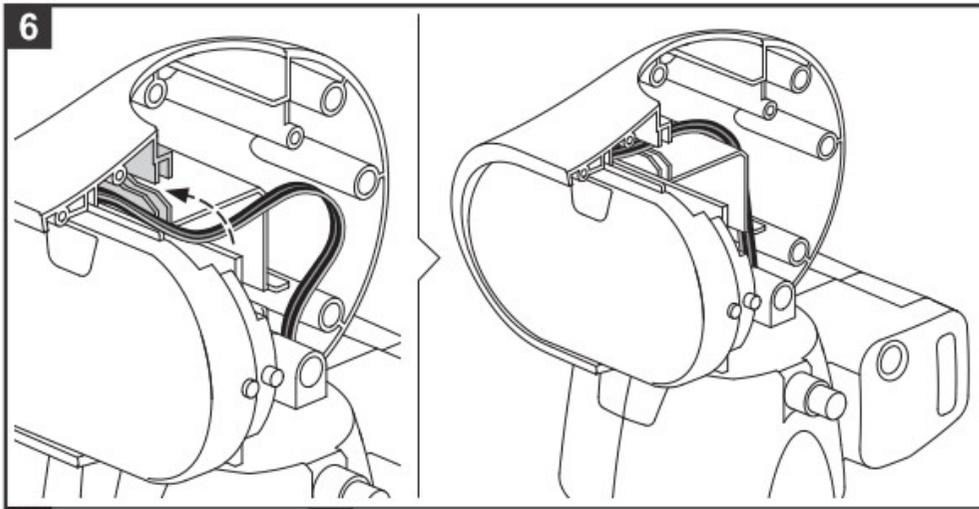
Placer P17 dans le coin de l'indentation de la pièce A10  
P17 se situe sur la feuille autocollante blanche.



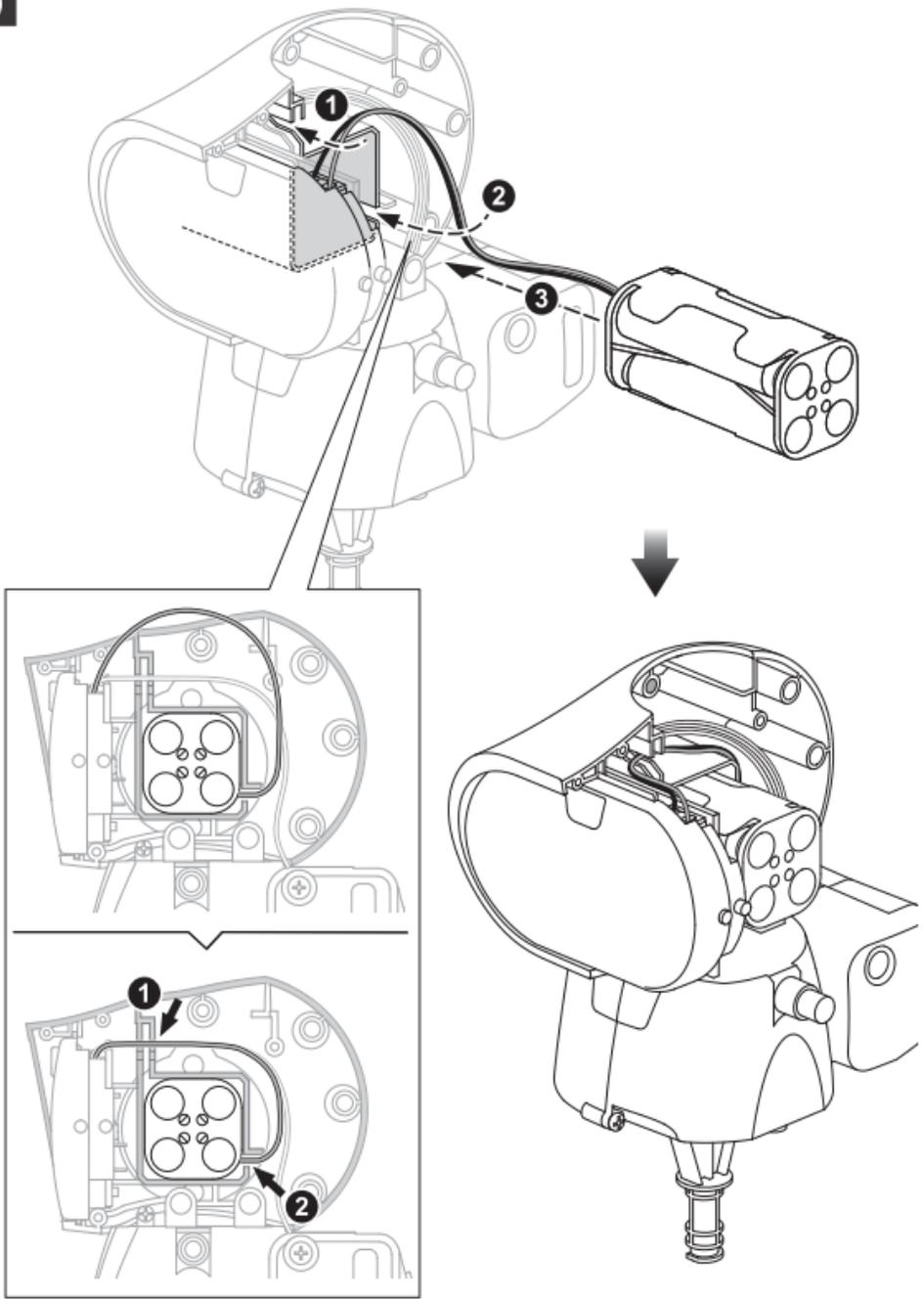
Attacher P9 x 2 comme indiqué ci-dessus avec

Couper les ébarbures des pièces avant le montage.

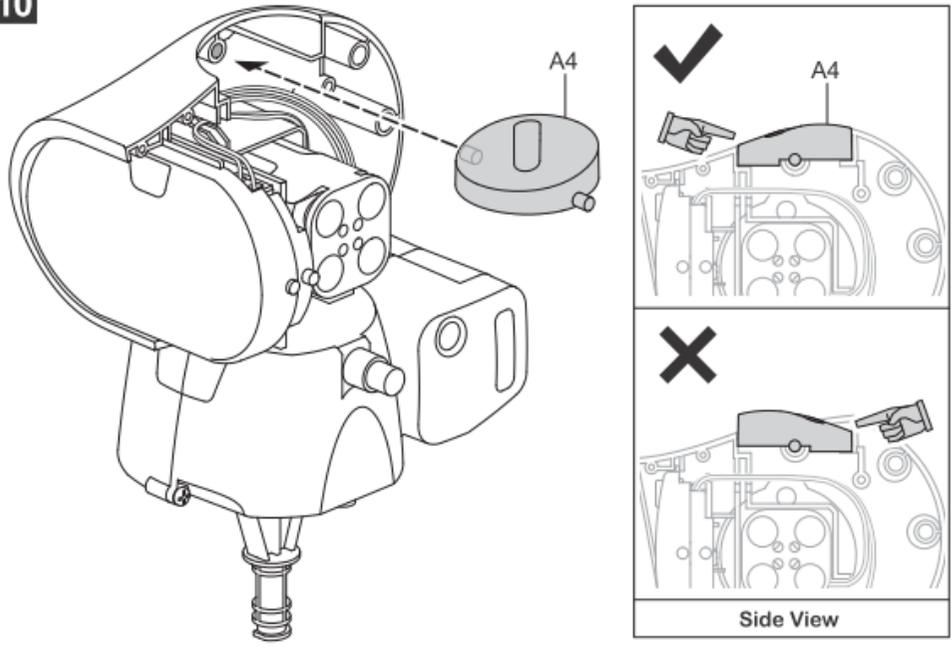




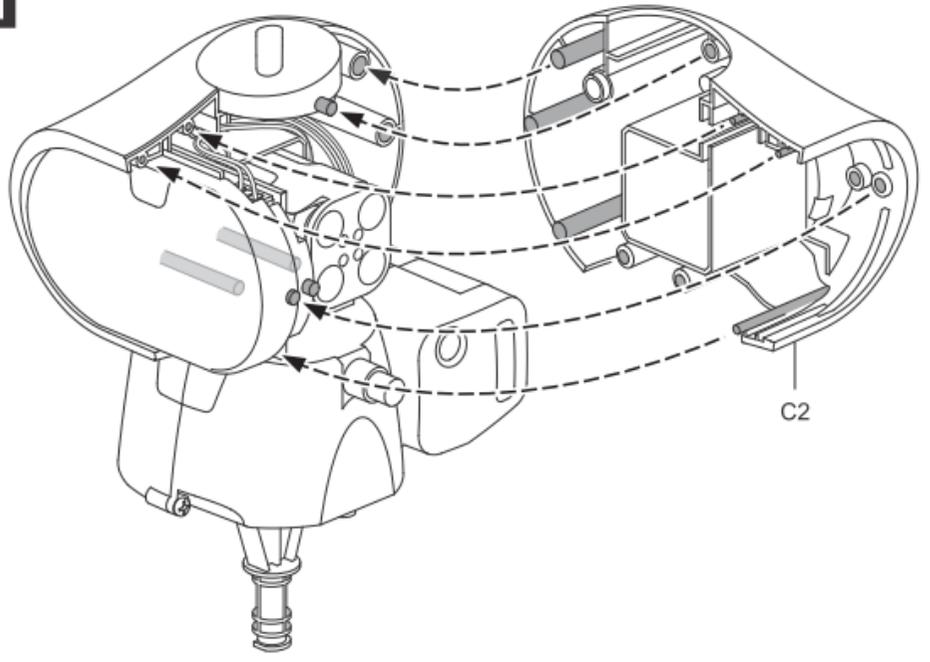
9



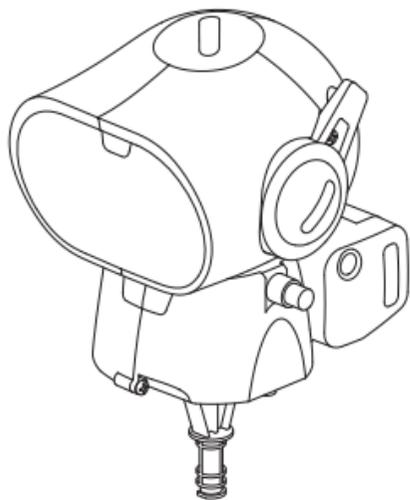
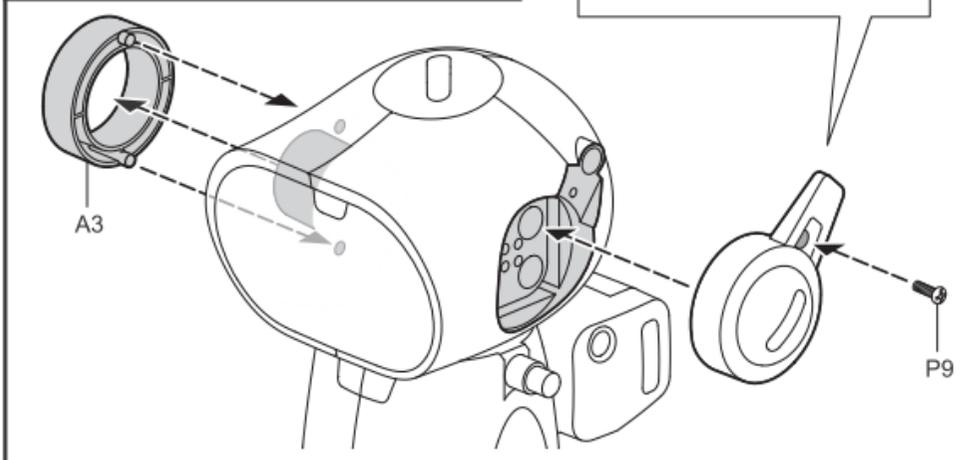
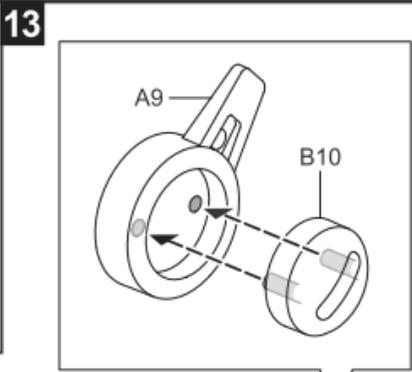
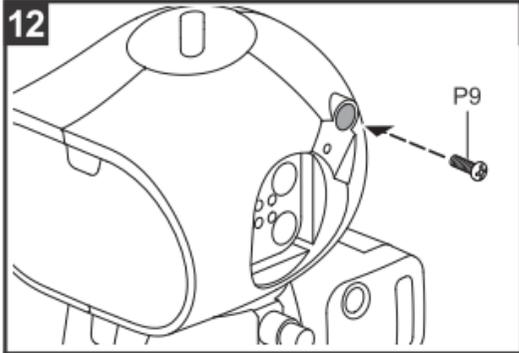
10



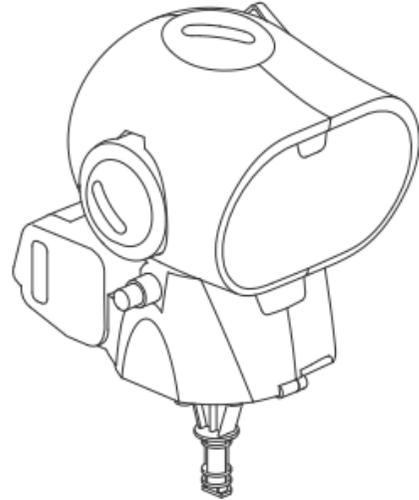
11



Vue latérale



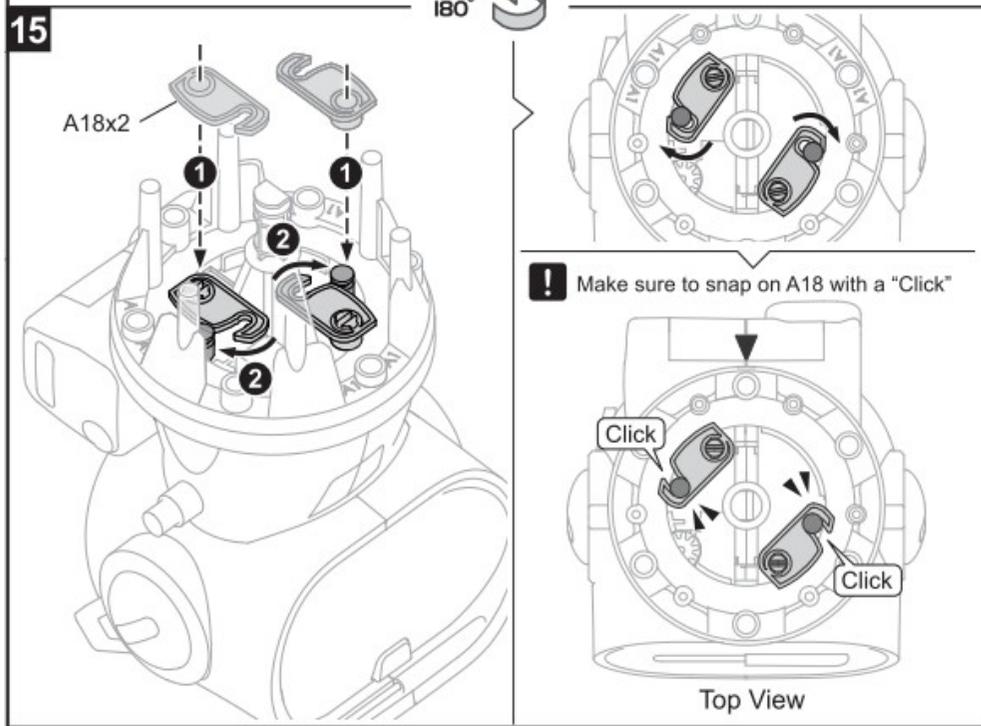
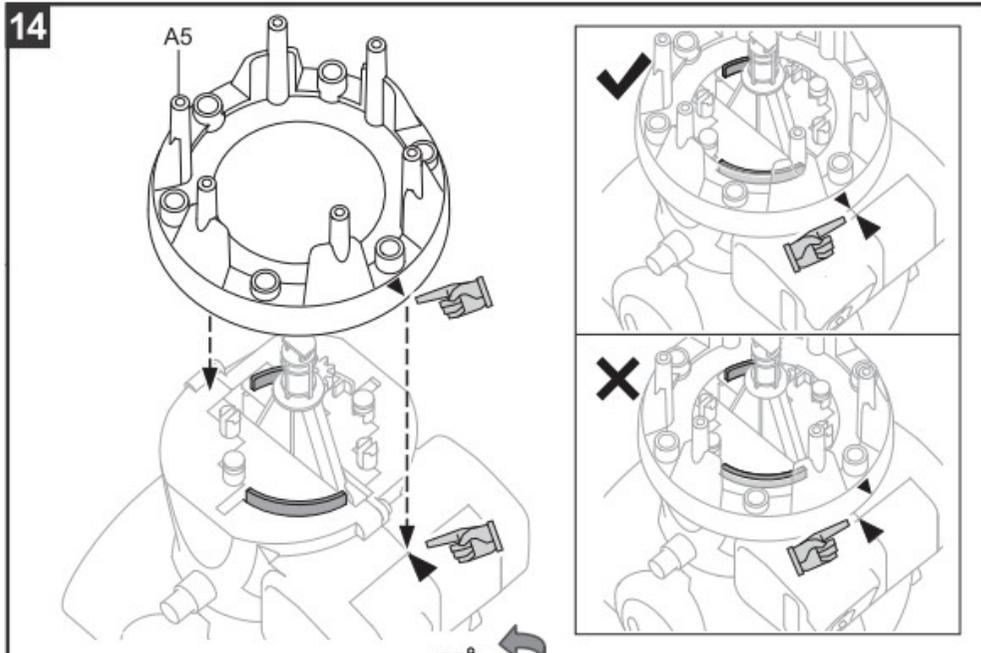
Right View



Left View

Vue de droite

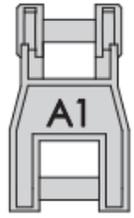
Vue de gauche



Attacher A18 avec un clic.

Vue supérieure

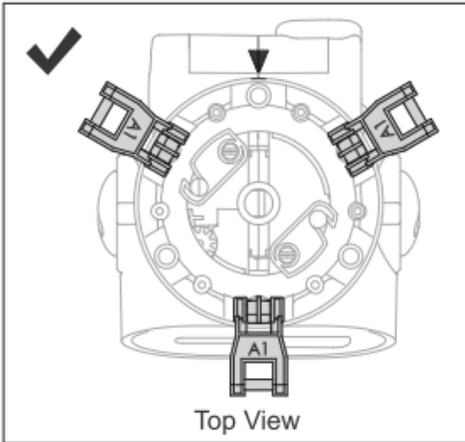
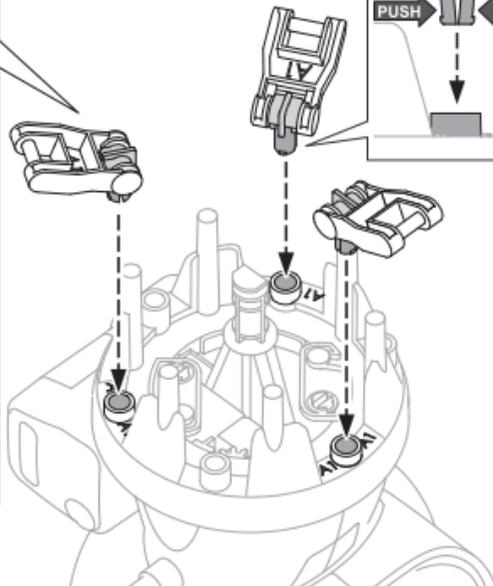
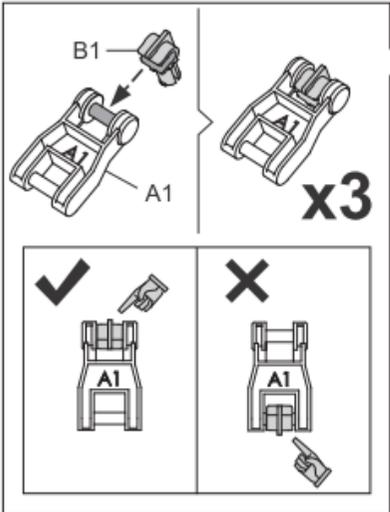
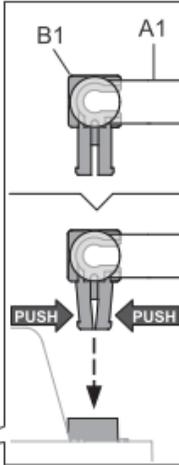
16



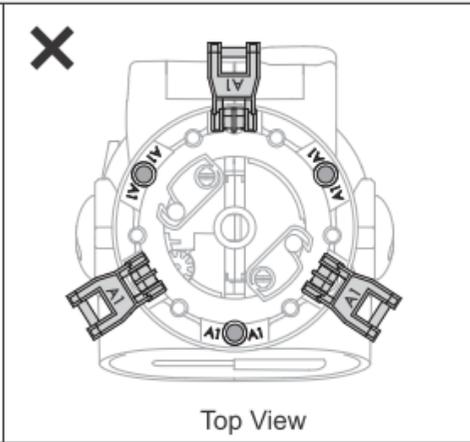
Scale 1:1



! Don't mix up A1 & A2.



Top View



Top View

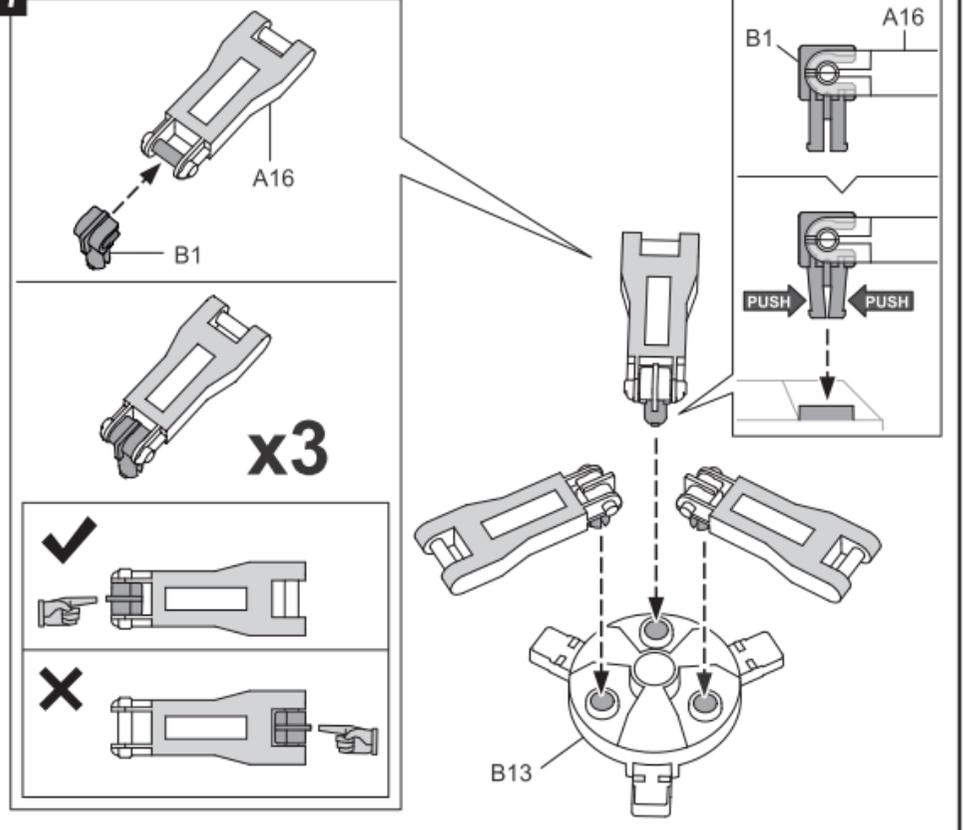
Ne pas échanger A2 & A1

Echelle 1:1

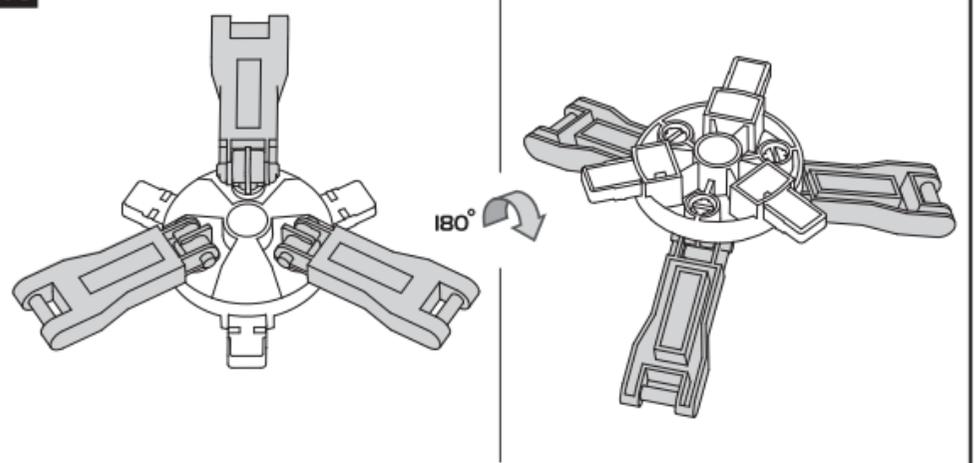
Vue supérieure

Vue supérieure

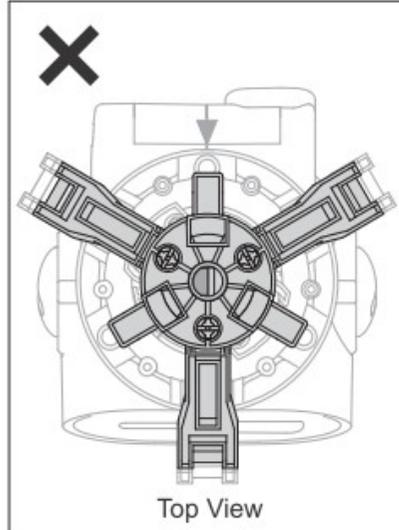
17



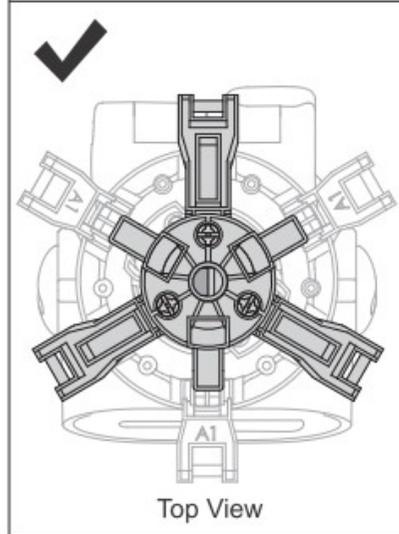
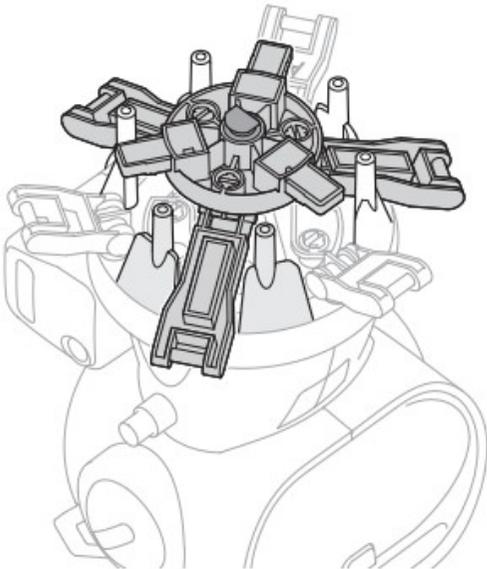
18



19



Top View

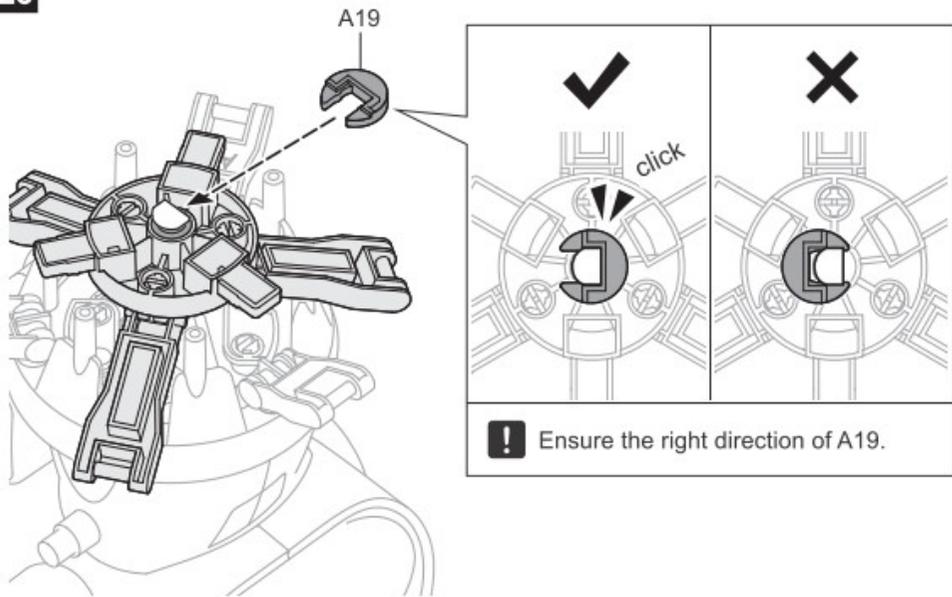


Top View

Vue supérieure

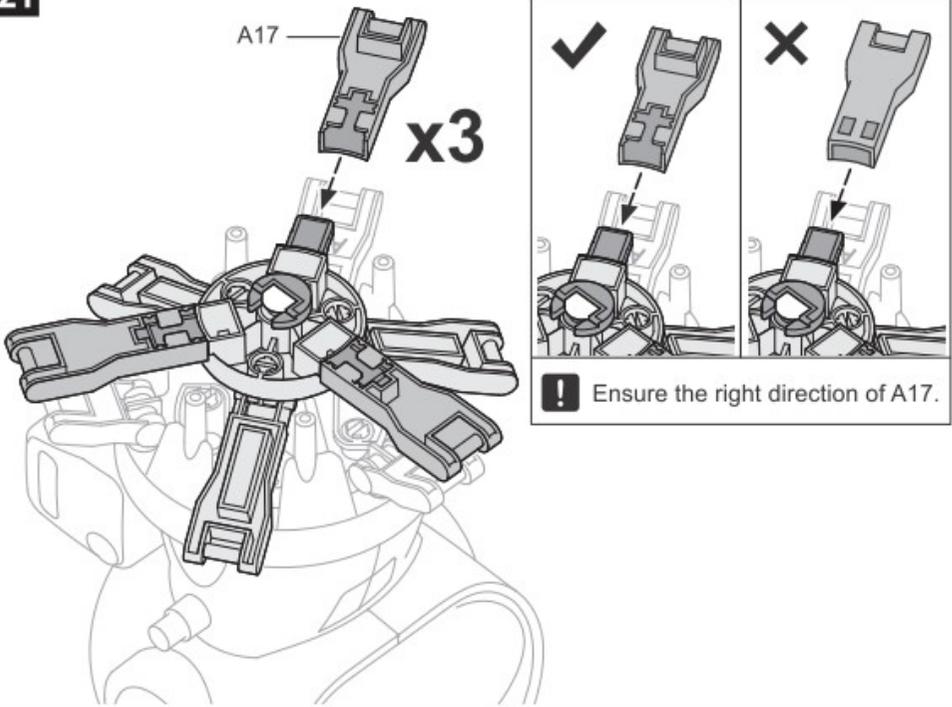
Vue supérieure

20



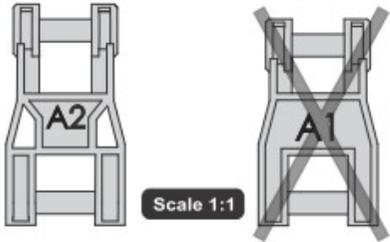
Monter A19 dans la position correcte.

21

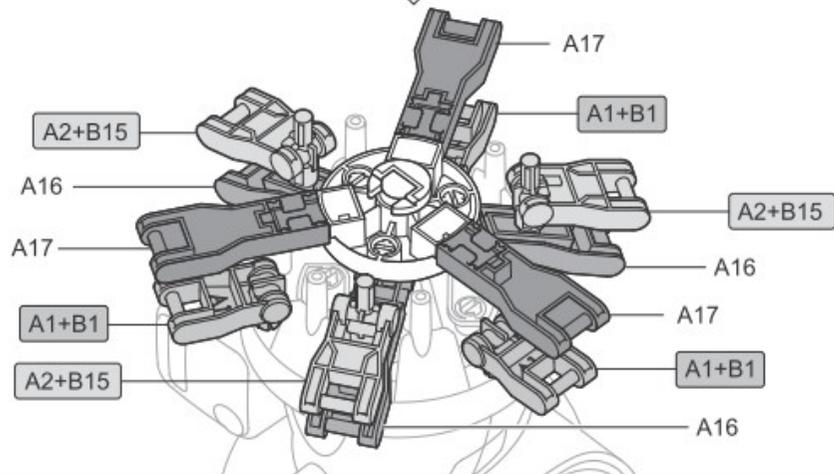
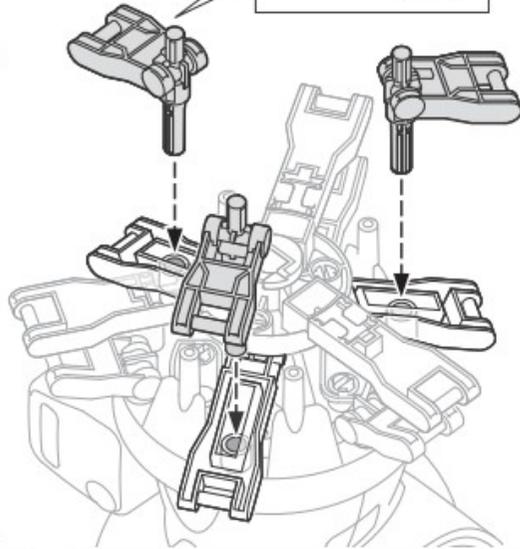
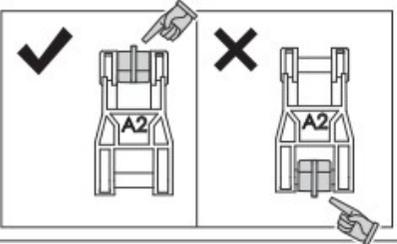
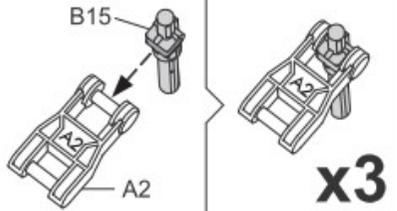
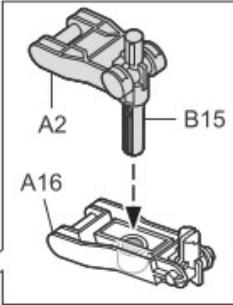


Monter A17 dans la position correcte.

22

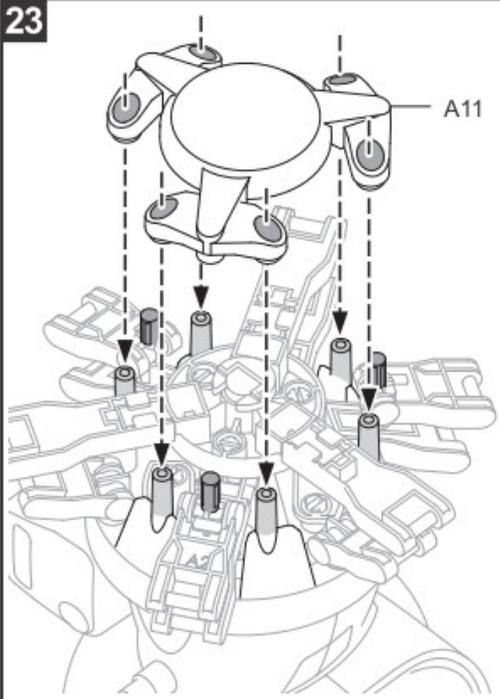


! Don't mix up A2 & A1.

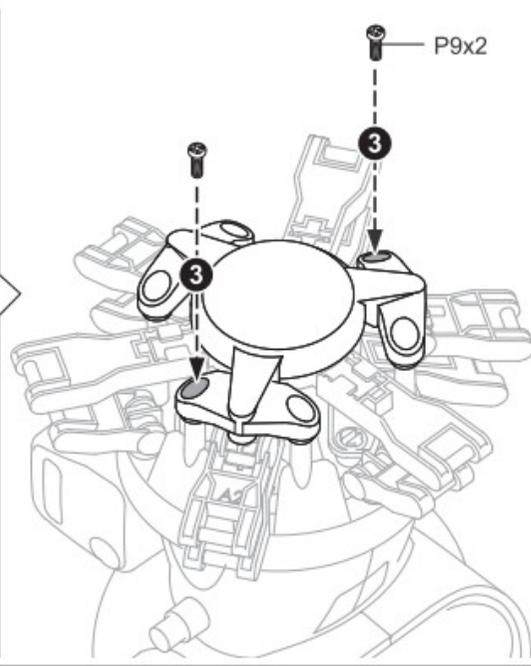
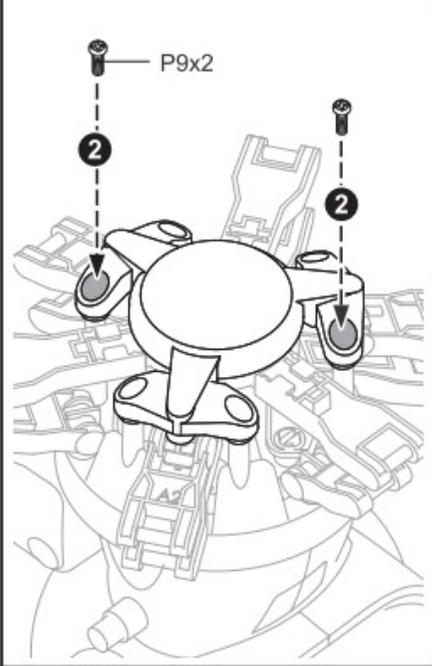
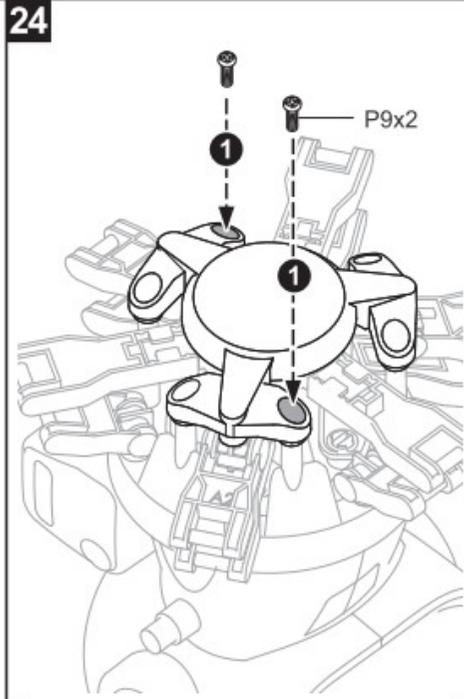


Ne pas échanger A2 & A1.

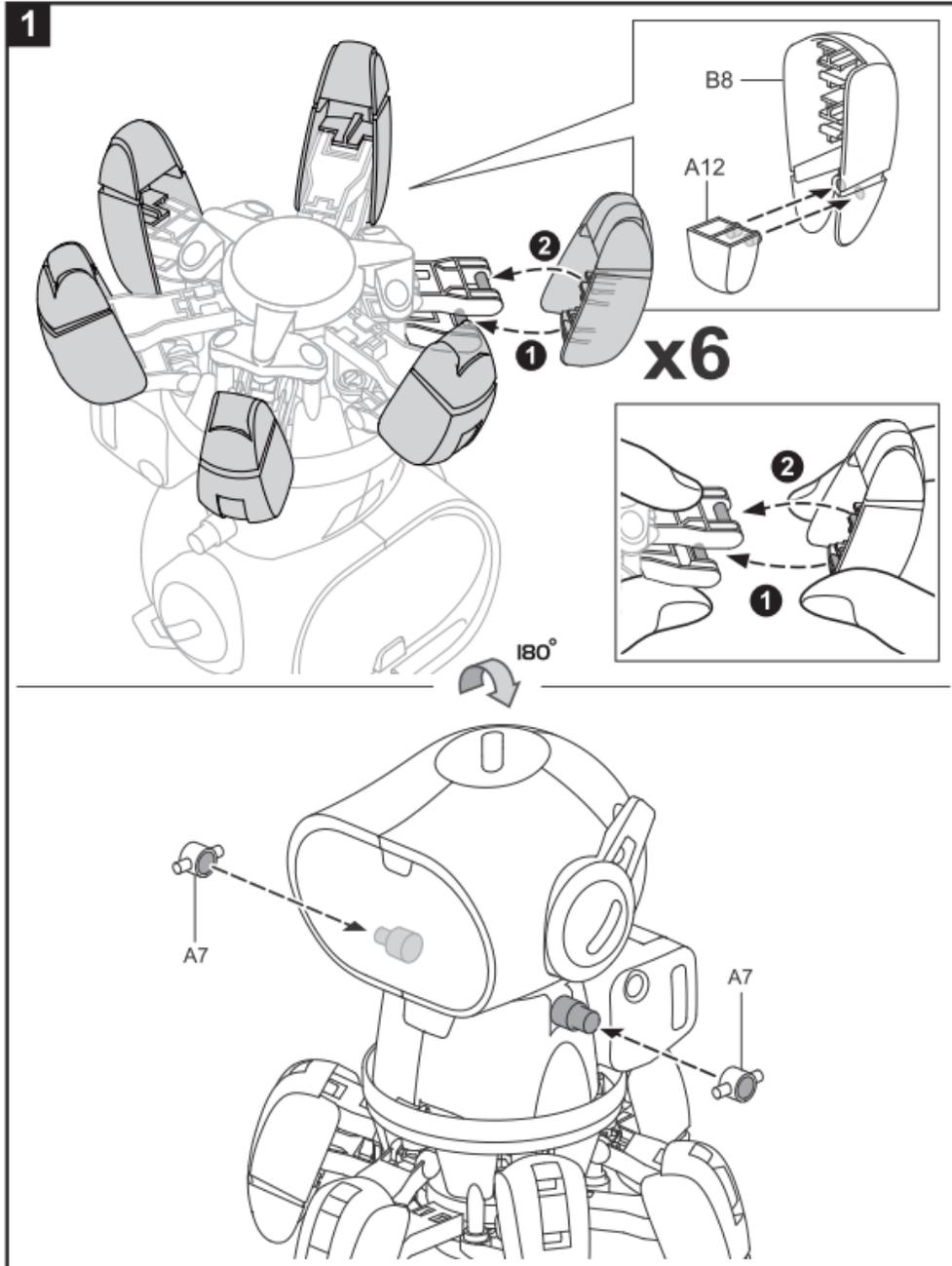
23



24



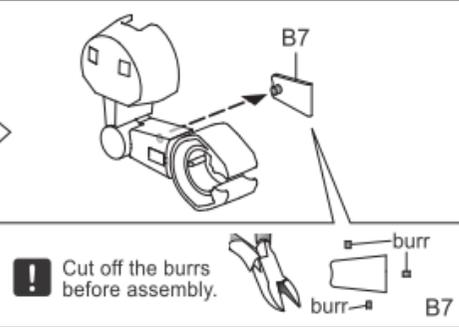
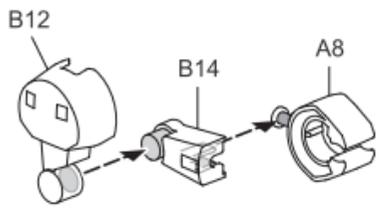
## Feet & Arms Module Assembly



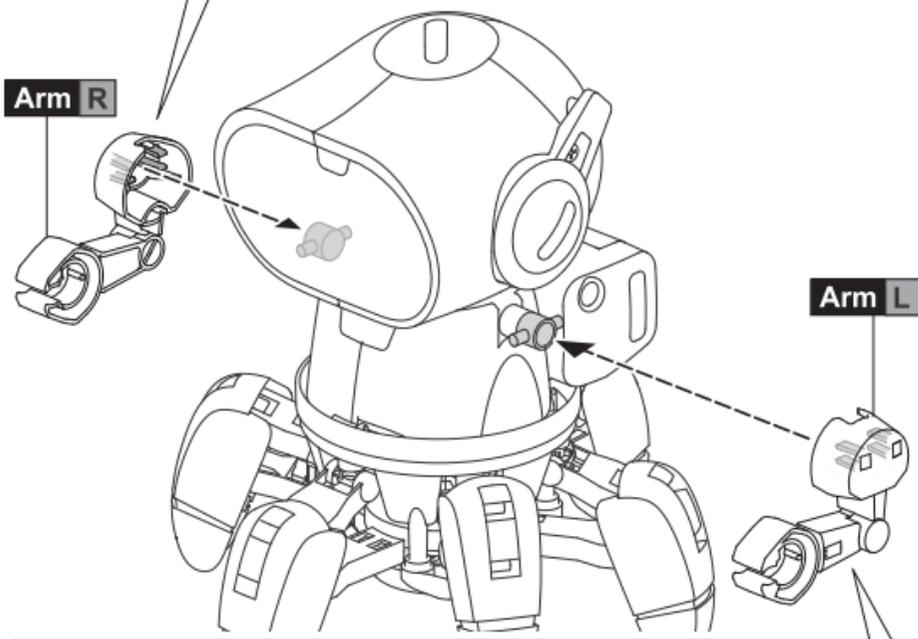
## Montage des pieds & bras

2

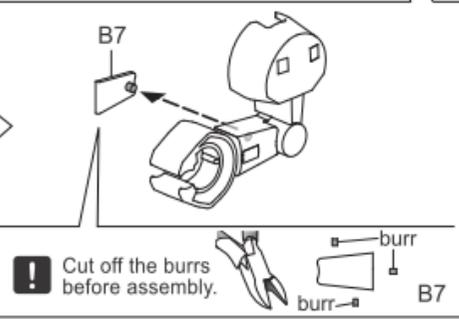
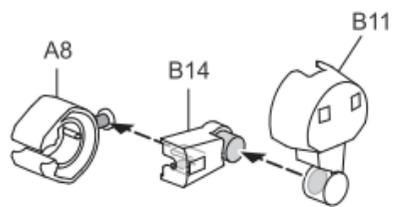
**Arm R**



**Arm R**



**Arm L**



**Armer**

**Armer**

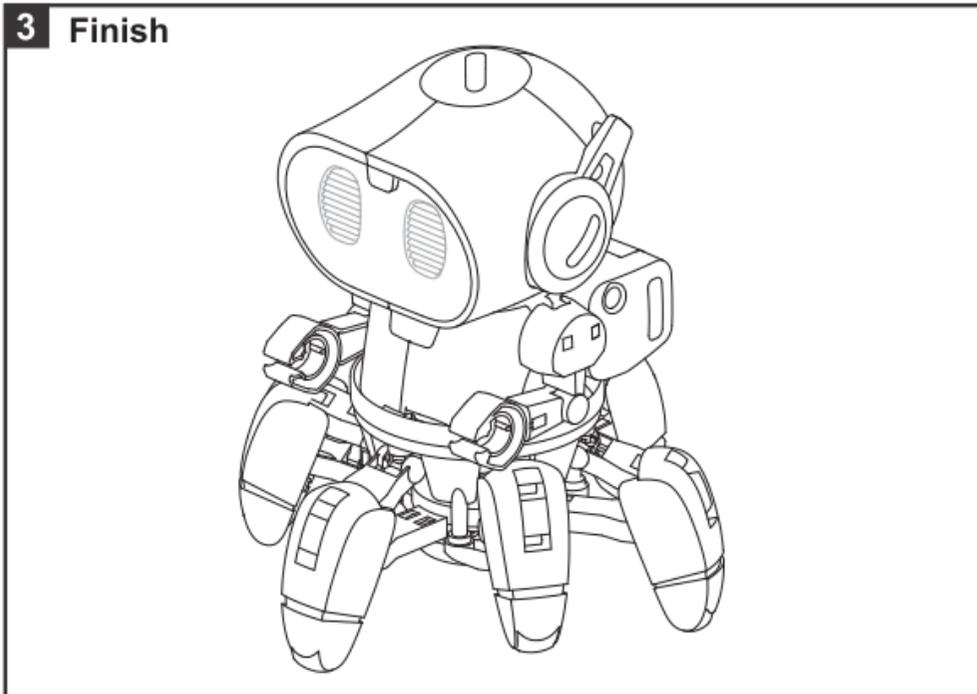
**Armer**

**Armer**

Couper les ébarbures des pièces avant le montage.

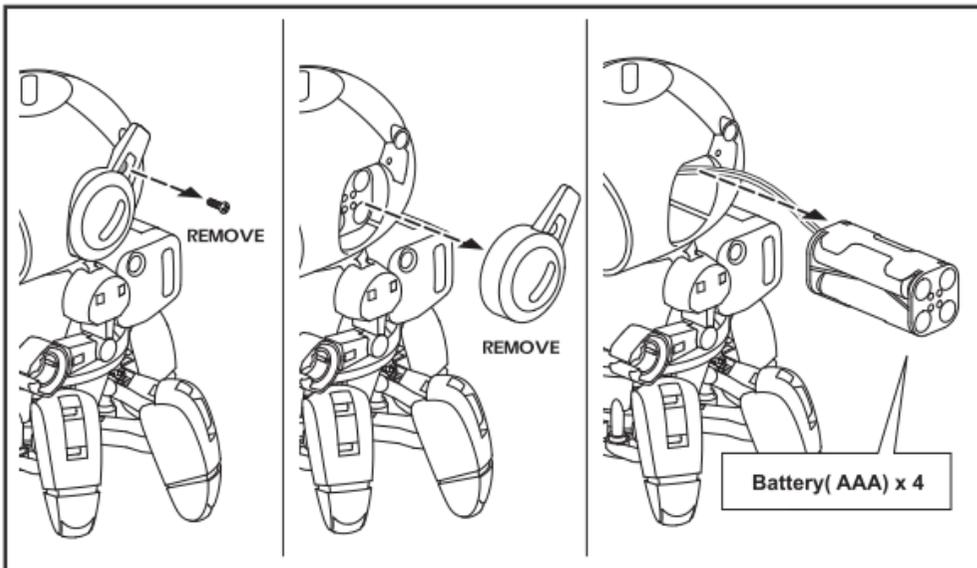
Couper les ébarbures des pièces avant le montage.

**3 Finish**



Produit fini

**How To Replace Batteries**



**Remplacer les piles**

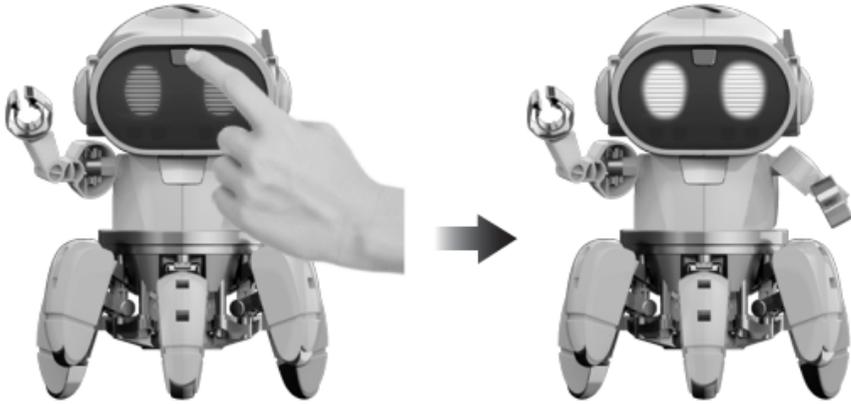
Retirer

Pile (AAA) x 4

## How To Play

### 1 Power On - " Standby " Phase

1. Long-press the switch for 2 secs. Tobbie's eyes (LED) light up with sound effects
2. LED flashes → enter " Standby " phase → select playing mode.

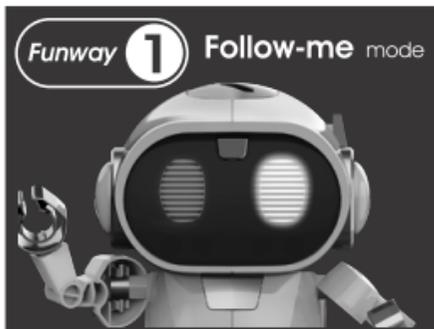


**Note:** Do not keep Tobbie waiting too long, Tobbie will keep stamping its feet with sound alerts to remind you. If " Standby " phase stays more than 60 secs without mode selection, Tobbie will " power off ".

### 2 Two Interactive Modes

One single button to switch between modes (Funway 1 / Funway 2) alternatively  
Example:

- Press the switch once- LED (left) lights up → goes into mode "Funway 1 "
- redo(repress button) - LED (right) lights up → goes into mode "Funway 2"
- redo(repress button) - LED (left) lights up → goes into mode "Funway 1 "



## Fonctionnement

### Allumer – Mode veille

1. Maintenir le bouton enfoncé pendant 2 secondes. Les yeux (LED) de Tobbie s'allument avec des effets sonores.
2. LED clignote > activer le mode veille > activer le mode jouer

Note : Tobbie est impatient - il va taper ses pieds et faire des sons pour vous pousser à sélectionner un mode. Après 60 s d'inactivité en mode veille, Tobbie s'éteint automatiquement.

### Deux modes interactifs

Un bouton pour basculer entre Funway 1 / Funway 2

Exemple :

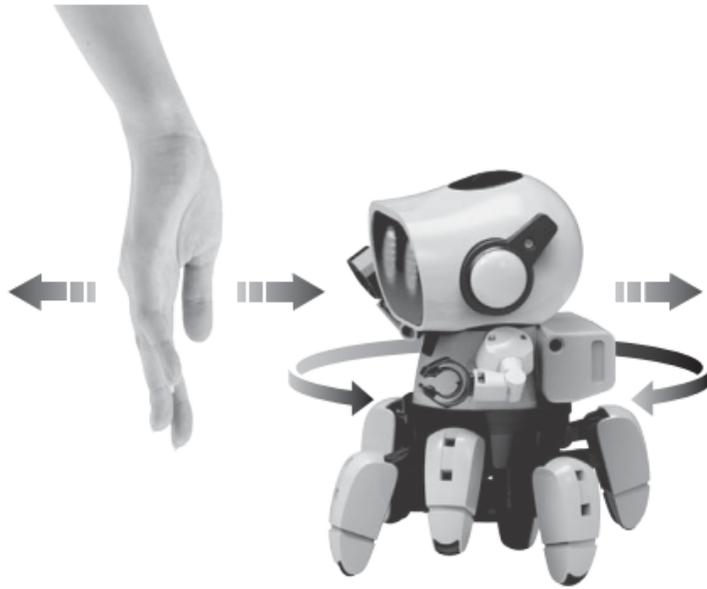
- Appuyer une fois sur le bouton - LED (gauche) clignote -> passe en mode "Funway 1"
- appuyer à nouveau - LED (droite) clignote -> passe en mode "Funway 2"
- appuyer à nouveau - LED (gauche) clignote -> passe en mode "Funway 1"

Mode Suivez-moi

Mode Explorer

Funway 1

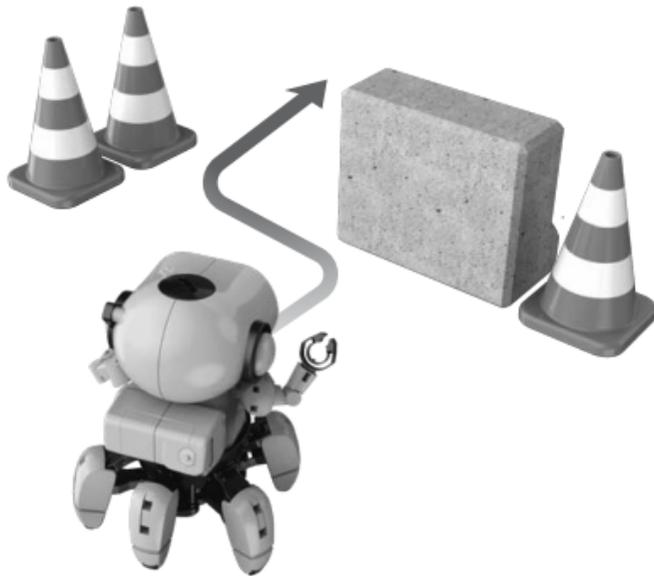
Follow-me  
mode



Mode Suivez-moi

Funway 2

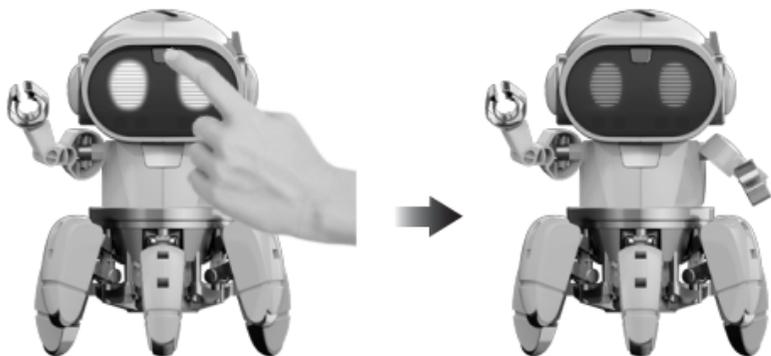
Explore  
mode



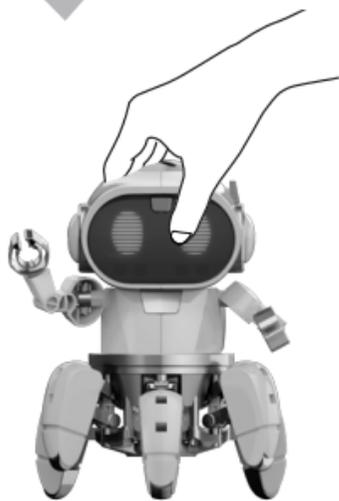
Mode Explorer

### 3 Power Off

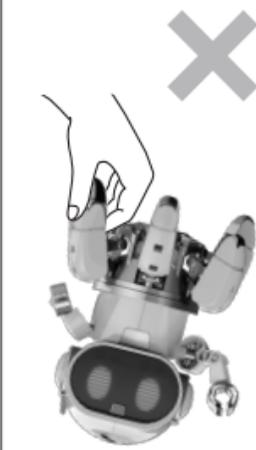
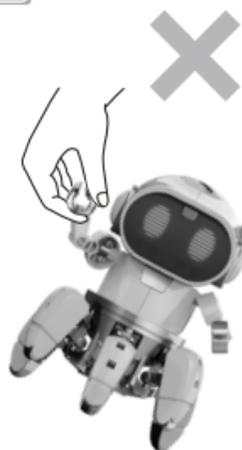
Long-press the switch for 3 secs.  
Tobbie becomes inactive, its LED eyes/Sound effects fade and then power off.  
Tobbie goes into " power off " mode.



#### Warning



Be gentle when holding Tobbie by its head, any improper motions (as shown to the right) might cause malfunction.



### Eteindre

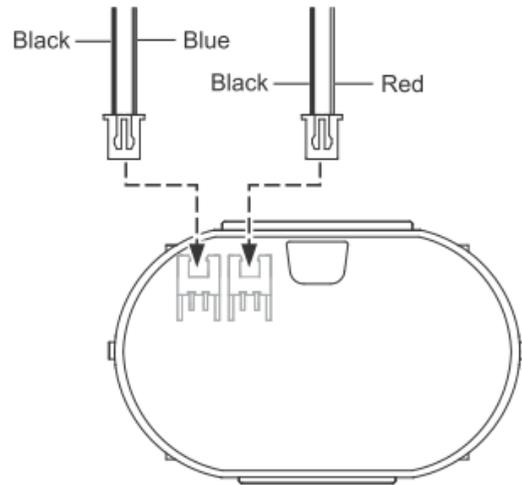
Maintenir enfoncé le bouton pendant 3 secondes.  
Tobbie ne bouge plus, les yeux (LED)/effets sonores s'éteignent lentement.  
Tobbie s'éteint.

#### Avertissement

Etre prudent en tenant Tobbie par la tête, des gestes brusques ou inappropriés (voir plus bas) peuvent entraîner un dysfonctionnement.

## Trouble Shooting

1. Ensure batteries are placed in correct polarity. ( refer to page 13, step **7** )
2. If Tobbie does not work ( LED doesn't flash ) when pressing " power switch ", Check and ensure the screws are fastened to the bottom entirely ( refer to page 11, step **3** )
3. Ensure all wirings are correct ( refer to page 12, step **5** wire configuration as below)



4. Do not play the Tobbie under direct sunlight or halogen lamp, it may cause the robot to go wrong direction.
5. If Tobbie emitted a sound " Bee Bee Bee " while playing, it is on " low-battery " alert. Replace new battery once it is exhausted.
6. Under " Explore " mode, if gearbox is still working but Tobbie does not move and come with abnormal sound " Da Da Da ".
  - ① Refer to page 21, step **20**, check and ensure **A19** is Installed correctly.
  - ② Refer to page 6, step **8**, check and ensure **A15** is removed.
  - ③ Refer to page 6, step **7** and page 11, step **3**, check and ensure all screws are fastened tightly.
7. If Tobbie is walking unstably or tumbling, check if **A1**(refer to page 18, step **16** ) & **A2** (refer to page 22, step **22** ) are not mixed, ensure both parts are installed correctly.

## Problèmes et solutions

1. Insérer les piles en respectant la polarité (voir p. 13, étape 7)
2. Si Tobbie ne fonctionne pas (LED ne clignote pas) en appuyant sur le bouton on/off. S'assurer que les vis sont bien insérées à fond (voir p. 11, étape 3)
3. S'assurer que tous les câbles sont correctement branchés (voir p. 12, étape 5 schéma de connexion ci-dessous)

4. Ne pas jouer directement sous le soleil ou une lampe halogène. Le robot pourrait se déplacer dans la mauvaise direction.
5. Si Tobbie émet un bip sonore, cela signifie que la pile est faible. Remplacer la pile usagée.
6. Si en mode « Explorer » Tobbie ne bouge pas et produit un bruit anormal (et le pignon fonctionne correctement).
  - Voir p. 6, étape 8, vérifier que A15 est correctement monté.
  - Voir p. 6, étape 8, vérifier que A15 est correctement monté.
  - Voir p. 6, étape 7 et p.11, étape 3, s'assurer que toutes les vis sont bien serrées.
7. Si Tobbie se déplace par mouvements saccadés, vérifier que A1 (voir p. 18, étape 16) & A2 (voir p. 22, étape 22) ne sont pas échangés et que les pièces ont été correctement montées.

# Tobbie

The Robot



- Removal and replacement of batteries should be carried out by adult or under adult supervision.
- Avoid short circuiting the contacts in the battery compartment or the battery terminals.
- Remove exhausted batteries from the product to avoid leakage.
- Do not mix used batteries and new batteries or batteries of different types.
- Do not mix alkaline, standard (carbon-zinc) , or rechargeable (nickel-cadmium) batteries.
- Batteries are to be inserted with the correct polarity.
- Do not attempt to recharge non-rechargeable batteries.
- Rechargeable batteries are only to be charged under adult supervision.
- Rechargeable batteries are to be removed from the toy before being charged.



**WARNING :**  
CHOKING HAZARD  
Small parts  
Not for children under  
3 years



L'enlèvement et le remplacement des piles doivent être effectués par un adulte ou sous sa surveillance.

Eviter de court-circuiter les contacts du compartiment à piles ou les pôles des piles.

Oter les piles usagées du produit.

Ne pas utiliser simultanément des piles neuves et des piles usagées, de même que des piles différentes.

Ne pas mélanger les piles alcalines, standard (carbone-zinc) et rechargeables (nickel-cadmium).

Les piles doivent être insérées en respectant la polarité.

Ne jamais recharger des piles alcalines.

Le chargement des piles rechargeables doit être effectué sous la surveillance d'un adulte.

Les piles rechargeables doivent être enlevées du produit avant le rechargement.