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# Digital Aiming for High Tech Lighting

## 高科技灯光的数字化校准

AML Systems

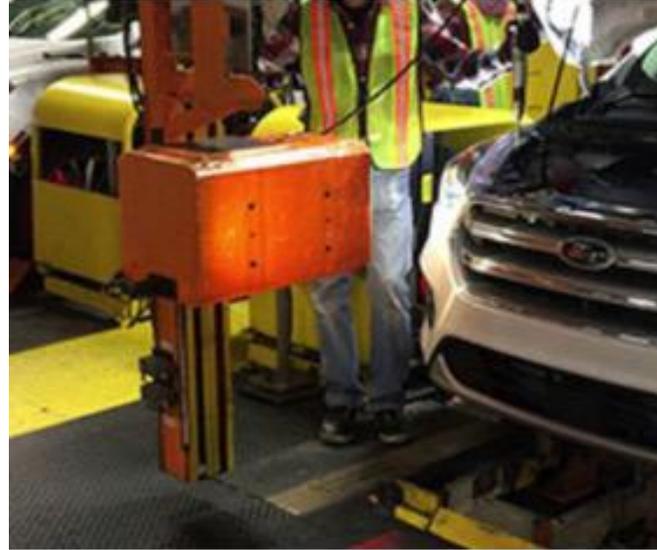
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saia-burgess

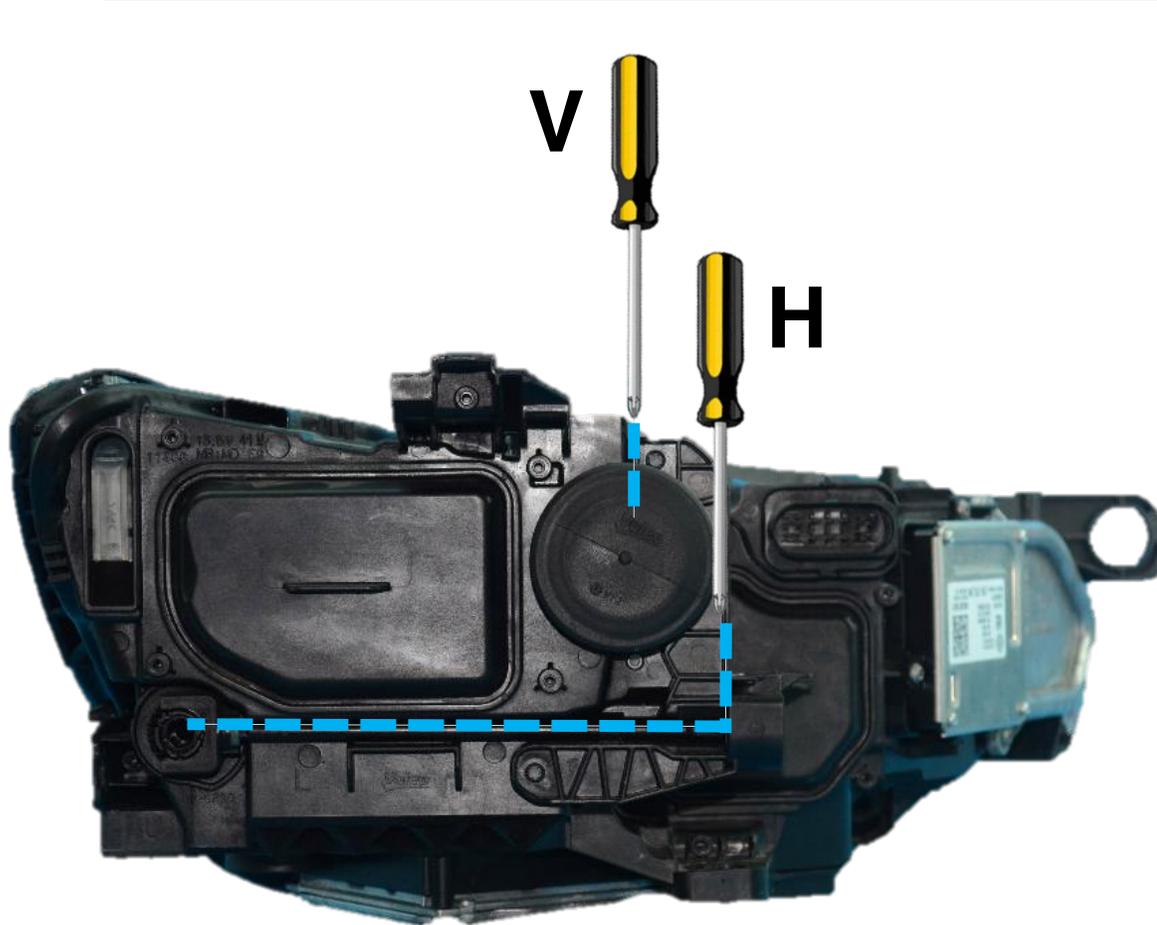


# Aiming at Car Assy Line.../ 整车装配线的灯光校准

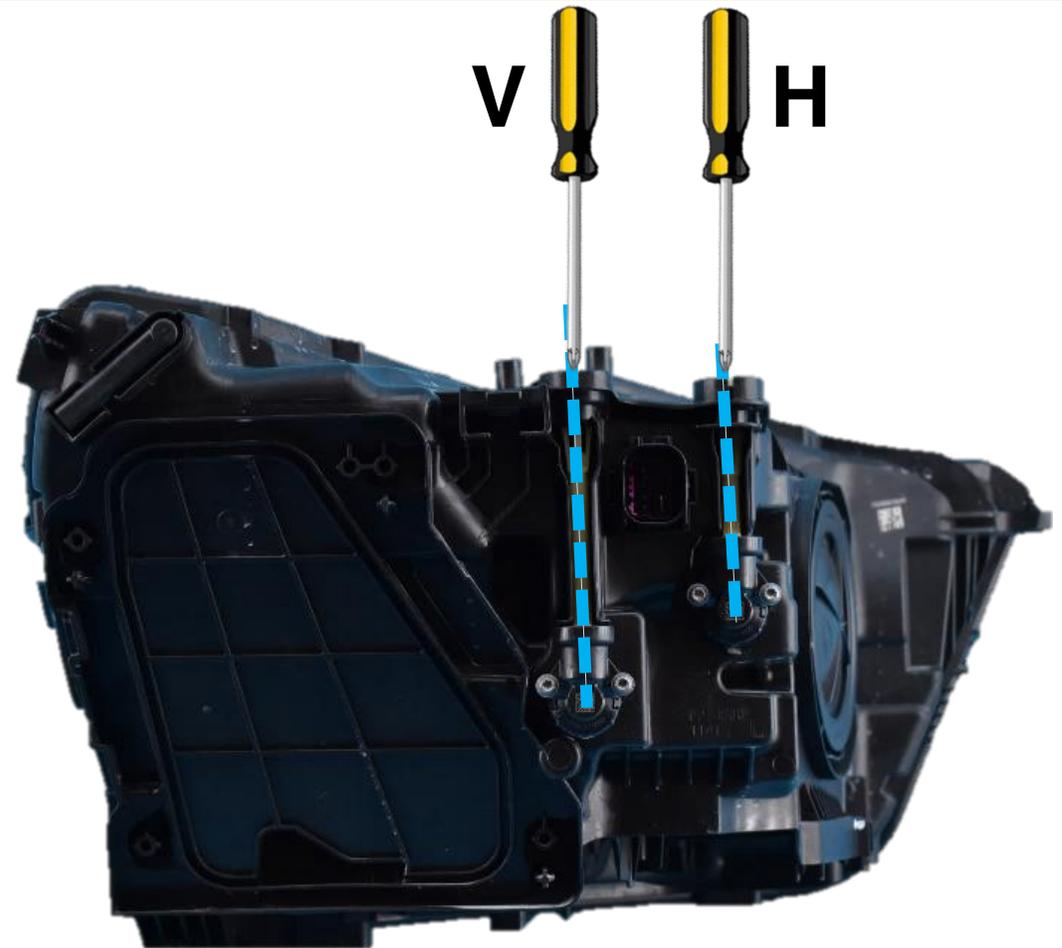


- ▶ Precision/ 调光精度 : can improve
- ▶ Cycle time/ 周期时间: can reduce
- ▶ Accessibility/ 可及性: can improve

# Aiming Access/ 实现校准的通道



14 components



14 components

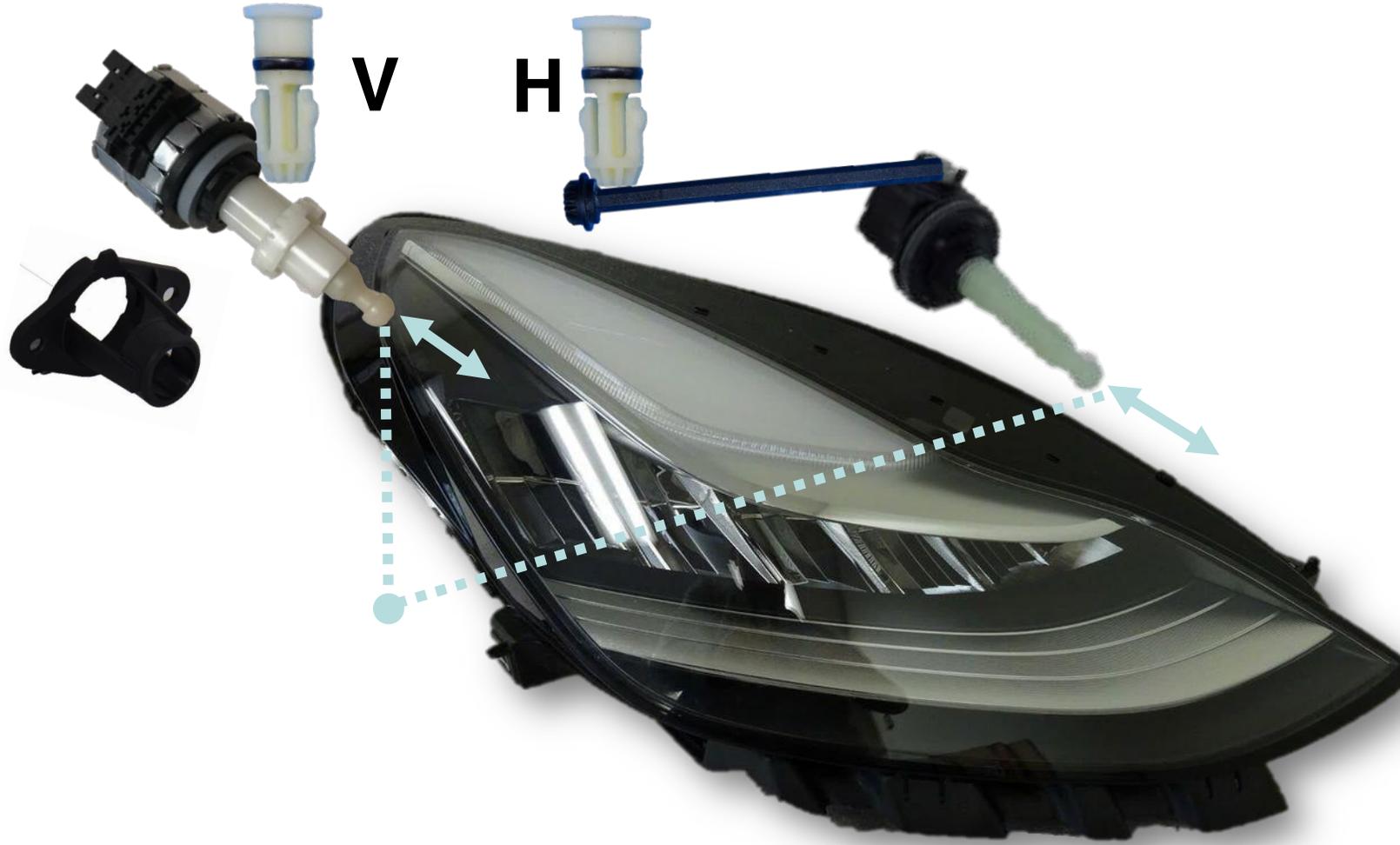


# Aiming Components Diversity/ 校准零件的多样化

- ▶ Gears/ Brackets/ Bars/ Sliders/ Cables/ Seals/ Screws.....  
传递齿/ 支架/ 传动棒/ 传递杆/ 拉线/ 密封件/ 螺钉.....



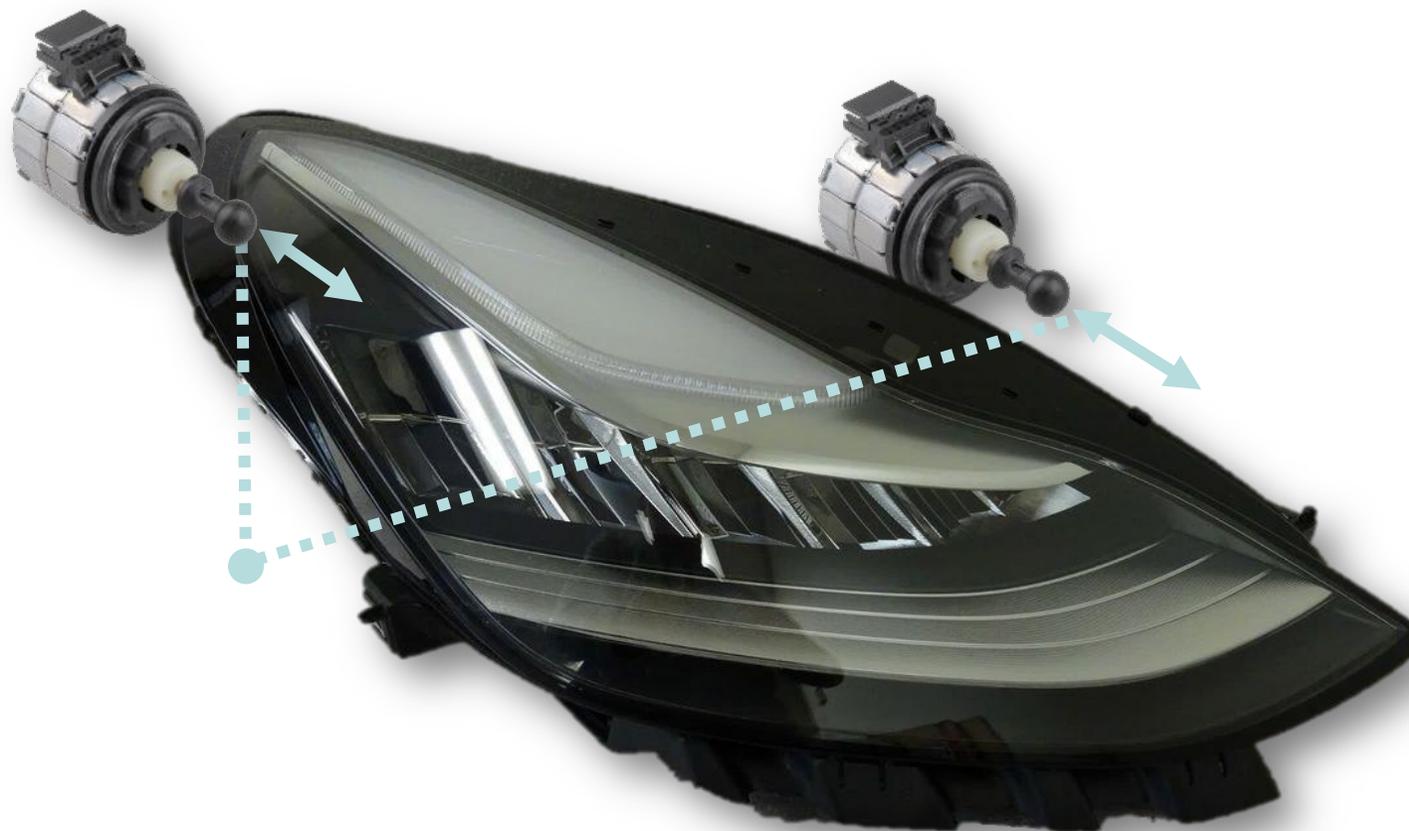
# How to Digitalize the Aiming/ 如何实现数字化校准



JOHNSON  
LECTRIC

# How to Digitalize the Aiming / 如何实现数字化校准

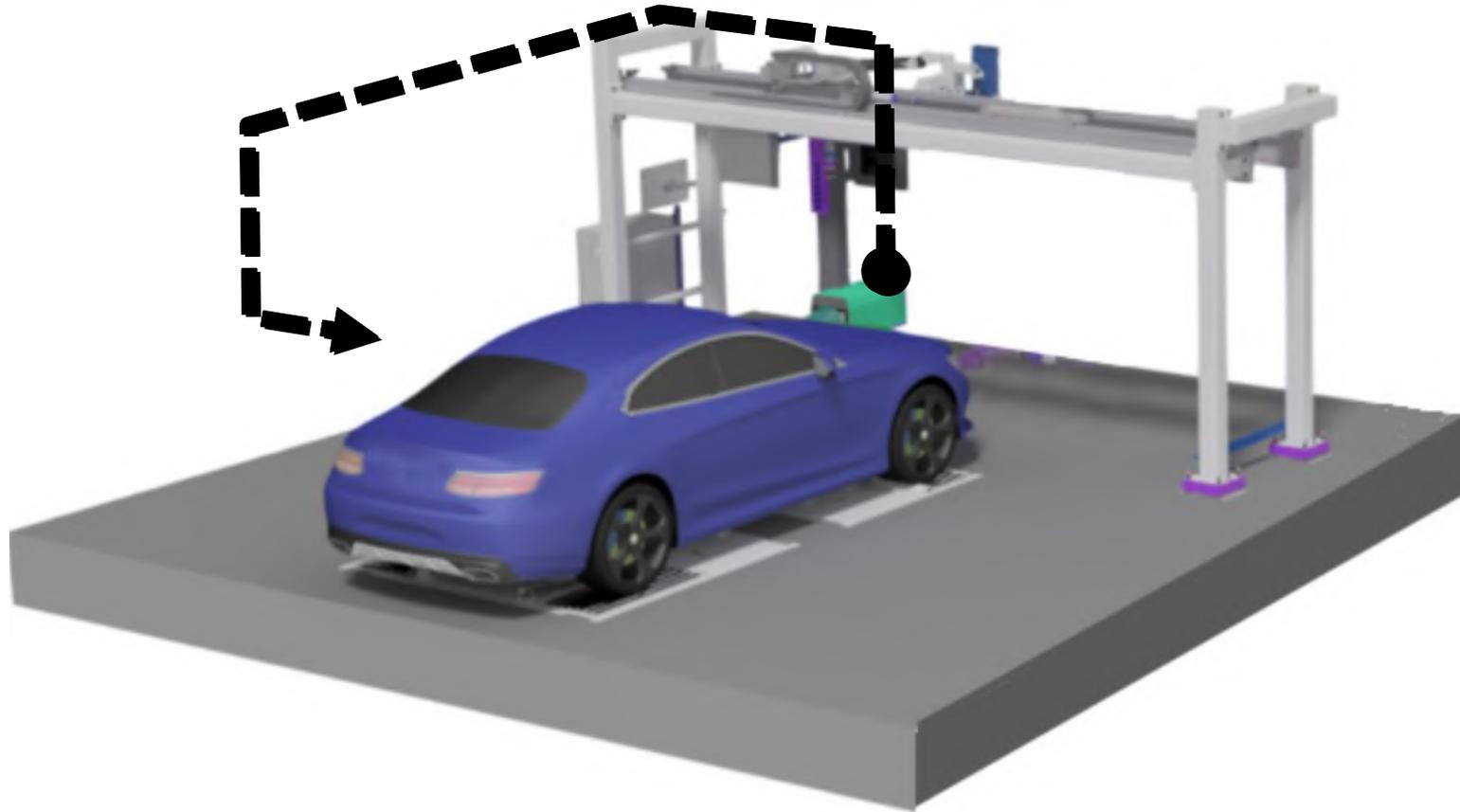
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JOHNSON  
LECTRIC

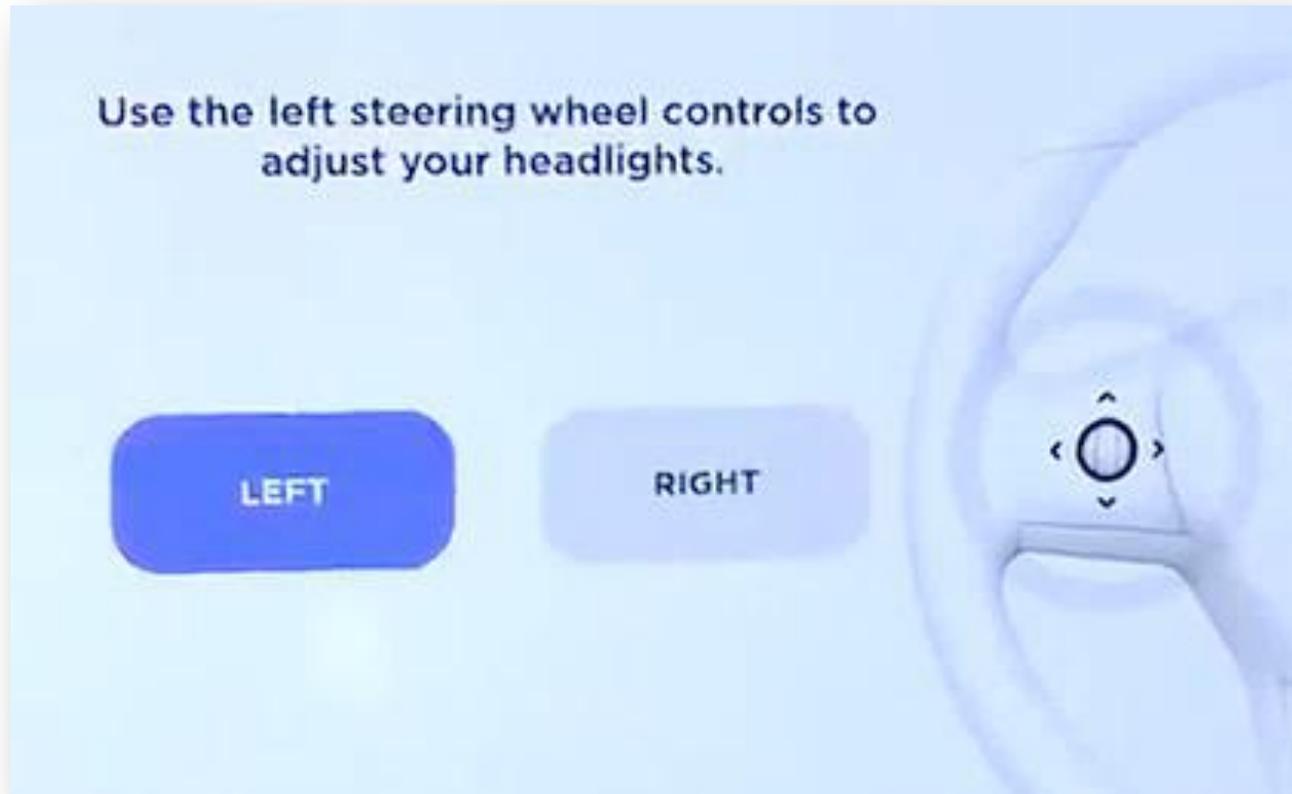
# How to Digitalize the Aiming : Car Assy Line

如何实现数字化校准：整车装配线



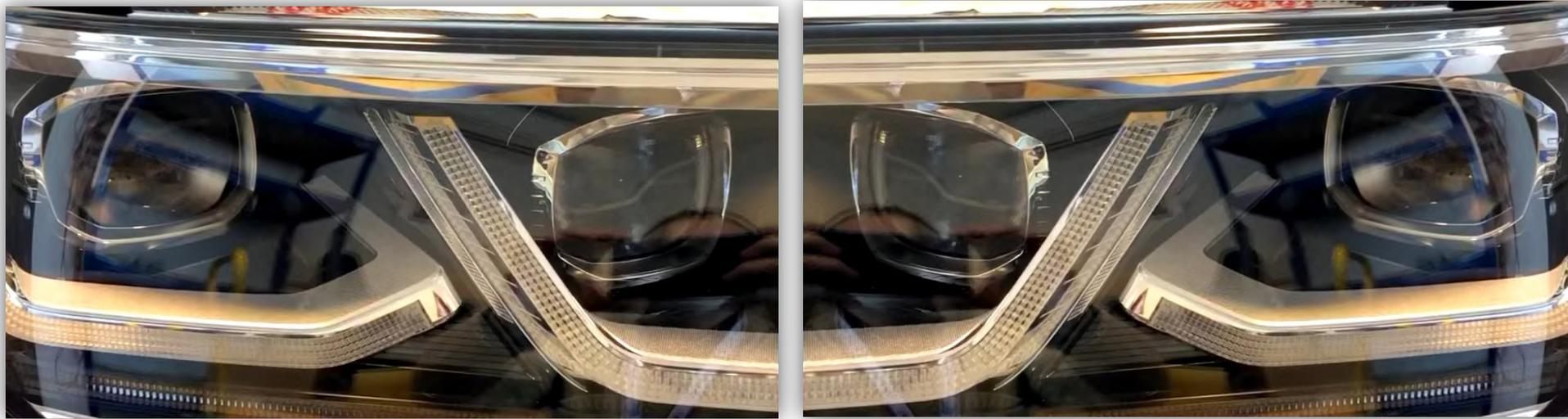
# How to Digitalize the Aiming : Car Inspection / Service

如何实现数字化校准：整车检查/服务



# Issues/ 问题点

- ▶ Long stroke Vertical Leveling + Aiming : Motor reference run
- ▶ 大行程的竖直电动调光和校准：电机需要进行初始化工作



- ▶ Horizontal aiming :
  - Standard Leveler specification may be too high
- ▶ 水平校准：标准电机的要求可能过高

# Solutions/ 解决方案

## ▶ Vertical aiming/ 竖直方向上的校准：

- 1) Long stroke stepper motor without reference run  
大行程步进电机不带初始化过程



Standard Leveling 3° up and down  
标准调光上下各3°



Leveling + Aiming 3°+3° up and down + Hall sensor  
上下调光和校准各3° + 霍尔传感器

- 2) Do the reference run at charging phase (EVs)  
在整车充电时进行初始化过程

## ❖ Horizontal aiming : « 10 shots » Leveler

水平方向上的校准：10次运动行程的电机

Gracias  
Dziękuję  
Merci  
Danke  
Takk  
Paxmetk  
Prasom  
Grazie  
Obriq  
Kos  
Mahalo  
Nono  
Arigato  
Спасибо  
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