

SEQUIRE M10二代GPS

M10 Second Generation GPS

感谢您购买本产品! 请您在使用前仔细阅读说明书, 严格遵守规定的操作说明, 使用者需具备一定电子基础和良好的焊接技术, 错误的使用可能造成人身伤害和设备损坏。我们不承担因使用本产品或擅自对产品进行改造而引起的任何责任, 包括但不限于对附带损失或间接损失的赔偿责任。

Thanks for buying this product! Please read the instructions carefully before use and strictly abide by the specified operating instructions. Users must have a certain electronic foundation and good welding skills. Wrong use may cause personal injury and equipment damage. We do not assume any liability arising from the use of this product or unauthorized modifications to the product, including but not limited to liability for incidental or indirect losses.



1. English instruction manual 01 - 04

2. 中文说明书 05 - 08



1. Product Description

- (1) SEQUIRE M10 second-generation GPS is designed with a 10th-generation chip optimization solution and GPS+BDS+ GALILEO positioning system, supporting NMEA/UBLOX protocol. It has a faster positioning speed and stronger anti-interference.
- (2) High-quality ceramic antenna with strong performance and effective reception of satellite signals.
- (3) M10-182Q, M10-252Q respectively integrate QMC5883 compass for a wider range of applications
- (4) Miniaturization multi-specification design for easy installation, accommodating drones of various sizes available on the market.
- (5) Supports two connection methods: direct plug-in and soldering pad, with strong compatibility.
- (6) The full range of GPS is compatible with a variety of mainstream FC firmware on the market: Betaflight, INVA, Ardupilot, etc.

2. Product Parameters

Model	M10-252Q	M10-252	M10-182Q
Chip	M10050	M10050	M10050
Working System	GPS+BDS+GALILEO	GPS+BDS+GALILEO	GPS+BDS+GALILEO
Auxiliary System	SBAS, QZSS	SBAS, QZSS	SBAS, QZSS
Working Voltage	3.3V-5V	3.3V-5V	3.3V-5V
Size	25*25*8.2mm	25*25*8.2mm	18*18*8.2mm
Weight	12g	12g	8g
Interface	PCB pad, Sh1.0 6pin straight socket	PCB pad, Sh1.0 6pin straight socket	Sh1.0 6pin straight socket
Antenna	Ceramic Antenna	Ceramic Antenna	Ceramic Antenna
Receive Channel	72 search channels	72 search channels	72 search channels
Baud Rate	115200	115200	115200
Output Protocol	NMEA, UBLOX dual agreement	NMEA, UBLOX dual agreement	NMEA, UBLOX dual agreement
Compass	QMC5883L	/	QMC5883L
Output Frequency	1Hz-10Hz, default 10Hz	1Hz-10Hz, default 10Hz	1Hz-10Hz, default 10Hz
Speed Accuracy	0.05m/s	0.05m/s	0.05m/s
Horizontal Positioning Accuracy	2D ACC1.5m (open-air)	2D ACC1.5m (open-air)	2D ACC1.5m (open-air)
Receive Sensitivity	Trace-162dBm, capture-160dBm	Trace-162dBm, capture-160dBm	Trace-162dBm, capture-160dBm
Working Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Storage Temperature	-40°C ~ +105°C	-40°C ~ +105°C	-40°C ~ +105°C

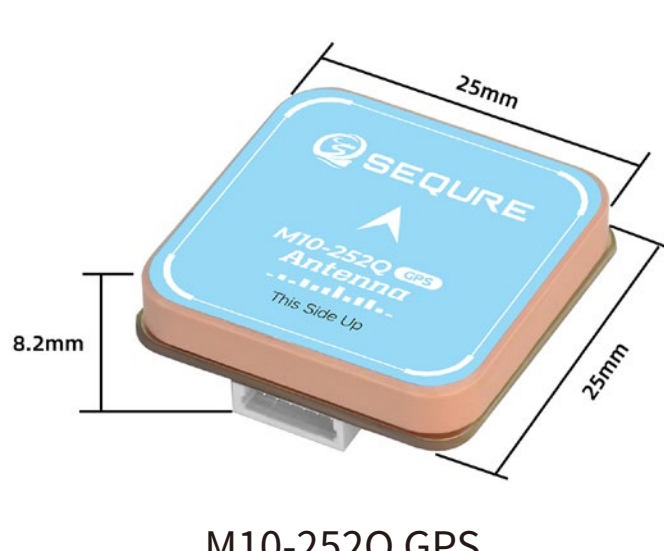
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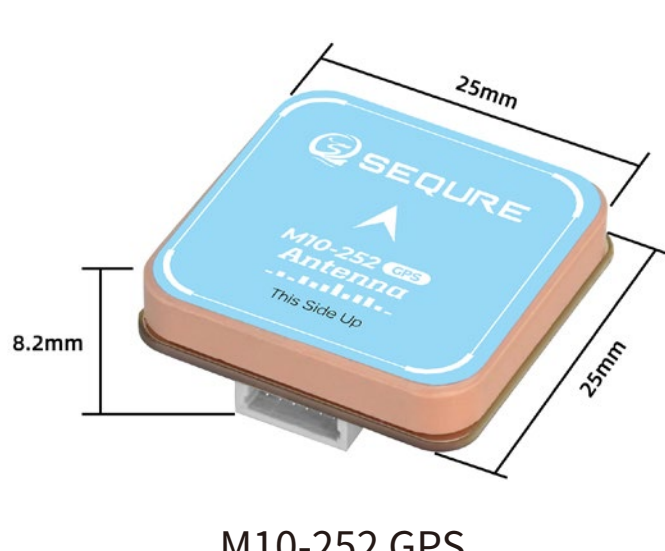
Model	M10-182	M10-122
Chip	M10050	M10050
Working System	GPS+BDS+GALILEO	GPS+BDS+GALILEO
Auxiliary System	SBAS, QZSS	SBAS, QZSS
Working Voltage	3.3V-5V	3.3V-5V
Size	18*18*8.2mm	16*12*7.3mm
Weight	8g	4.3g
Interface	PCB pad, Sh1.0 4pin straight socket	PCB pad, Sh0.8 4pin straight socket
Antenna	Ceramic Antenna	Ceramic Antenna
Receive Channel	72 search channels	72 search channels
Baud Rate	115200	4800-921600, default 115200
Output Protocol	NMEA, UBLOX dual agreement	NMEA, UBLOX dual agreement
Compass	/	/
Output Frequency	1Hz-10Hz, default 10Hz	1Hz-18Hz, default 10Hz
Speed Accuracy	0.05m/s	0.05m/s
Horizontal Positioning Accuracy	2D ACC1.5m (open-air)	2D ACC1.5m (open-air)
Receive Sensitivity	Trace-162dBm, capture-160dBm	Trace-162dBm, capture-160dBm
Working Temperature	-40°C ~ +85°C	-40°C ~ +85°C
Storage Temperature	-40°C ~ +105°C	-40°C ~ +105°C

3. Size And Weight



M10-252Q GPS

weight:12g

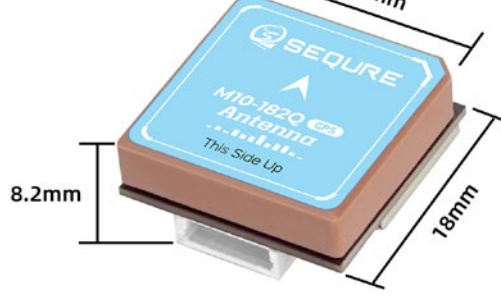


M10-252 GPS

weight:12g

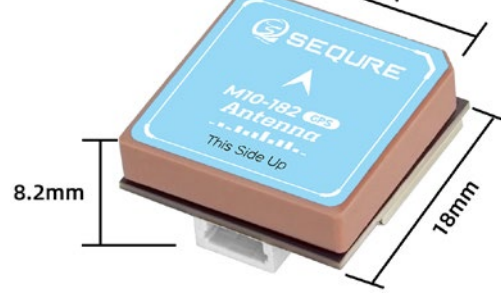
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M10-182-GPS

weight:8g



M10-182Q-GPS

weight:8g

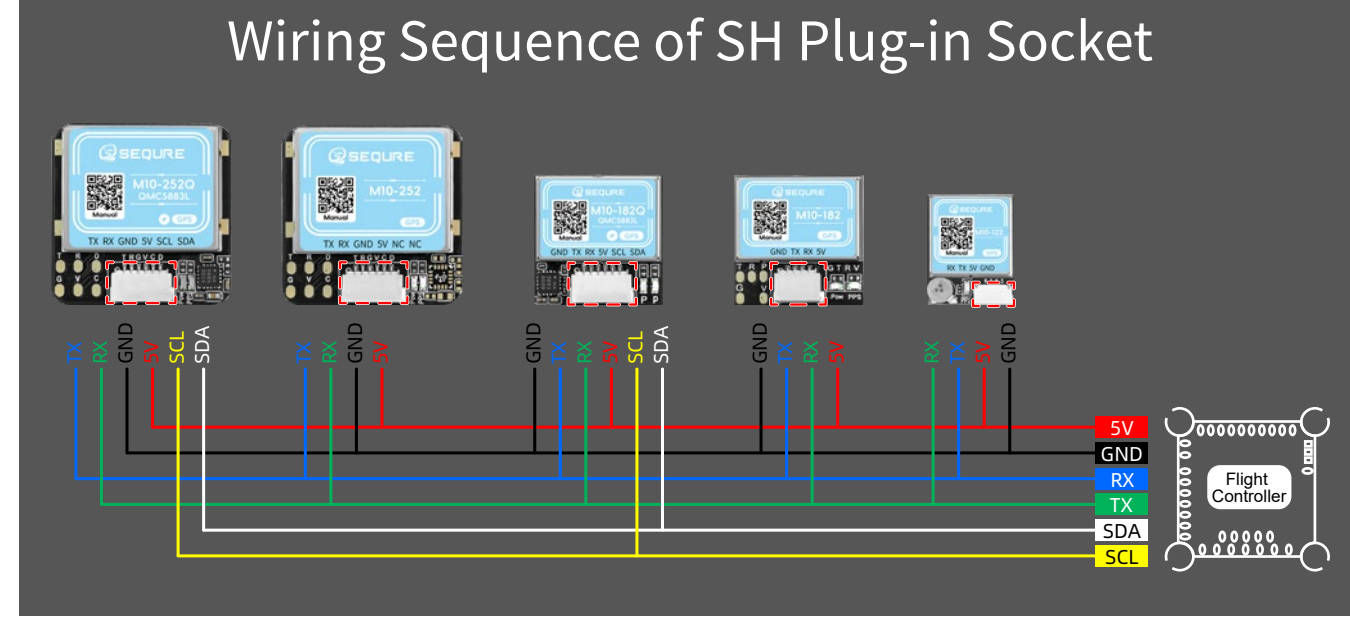


M10-122-GPS

weight:4.3g

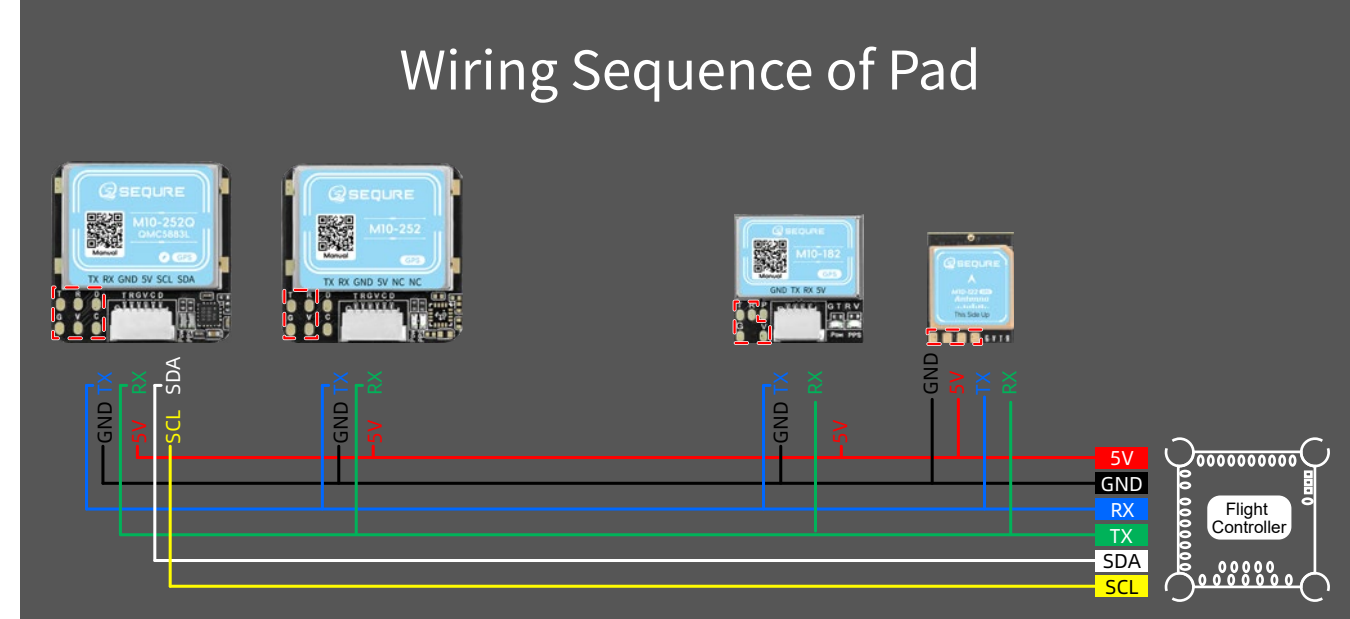
4. Wiring Diagram

▲ NOTE: Make sure the wiring is correct before powering, otherwise the product may be damaged.



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5. Warranty Terms

1. For those performance faults caused by non-human factors within 3 months from the date of purchase, we provide repair & maintenance service for free. After 3 months, no labor fee will be charged for repairs. If you would like to replace parts, you must pay for the cost.
2. All man-made damage, faults caused by self disassembly & improper use, and all consumables like soldering tips are not covered by the warranty.

6. Safety Precautions

- Please check and make sure the positive and negative polarity are correct before powering on.
- Please use the product in compliance with local regulations and ensuring safety.
- Please use accessories that meet safety standards and store them out of reach of children.



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1. 产品描述

- (1) SEQUIRE M10二代GPS,采用10代芯片优化方案设计, GPS+BDS+GALILEO定位系统, 支持NMEA/UBLOX 协议, 定位速度更快, 抗干扰性更强。
- (2) 高质量陶瓷天线, 性能强劲, 有效接收卫星信号。
- (3) M10-182Q, M10-252Q分别集成QMC5883罗盘, 应用范围更广。
- (4) 小型化多规格设计, 安装简易, 满足市面各种尺寸的无人机安装。
- (5) 支持座子直插和焊盘两种连接方式, 兼容性更强。
- (6) GPS全系列兼容市面多种主流FC固件: Betaflight, INVA, Ardupilot等。

2. 产品参数

型号	M10-252Q	M10-252	M10-182Q
芯片	M10050	M10050	M10050
工作模式	GPS+BDS+GALILEO	GPS+BDS+GALILEO	GPS+BDS+GALILEO
辅助系统	SBAS, QZSS	SBAS, QZSS	SBAS, QZSS
工作电压	3.3V-5V	3.3V-5V	3.3V-5V
尺寸	25*25*8.2mm	25*25*8.2mm	18*18*8.2mm
重量	12g	12g	8g
接口	PCB 焊盘、Sh1.0 6Pin直插座子	PCB 焊盘、Sh1.0 6Pin直插座子	Sh1.0 6Pin直插座子
天线	陶瓷天线	陶瓷天线	陶瓷天线
接收频道	72个搜索频道	72个搜索频道	72个搜索频道
波特率	115200	115200	115200
输出协议	NMEA、UBLOX 双协议	NMEA、UBLOX 双协议	NMEA、UBLOX 双协议
罗盘	QMC5883L	/	QMC5883L
输出频率	1Hz-10Hz, 默认10Hz	1Hz-10Hz, 默认10Hz	1Hz-10Hz, 默认10Hz
速度精度	0.05m/s	0.05m/s	0.05m/s
水平定位精度	2D ACC1.5m (露天)	2D ACC1.5m (露天)	2D ACC1.5m (露天)
接收灵敏度	迹线-162dBm, 捕获-160dBm	迹线-162dBm, 捕获-160dBm	迹线-162dBm, 捕获-160dBm
工作温度	-40℃ ~ +85℃	-40℃ ~ +85℃	-40℃ ~ +85℃
存储温度	-40℃ ~ +105℃	-40℃ ~ +105℃	-40℃ ~ +105℃

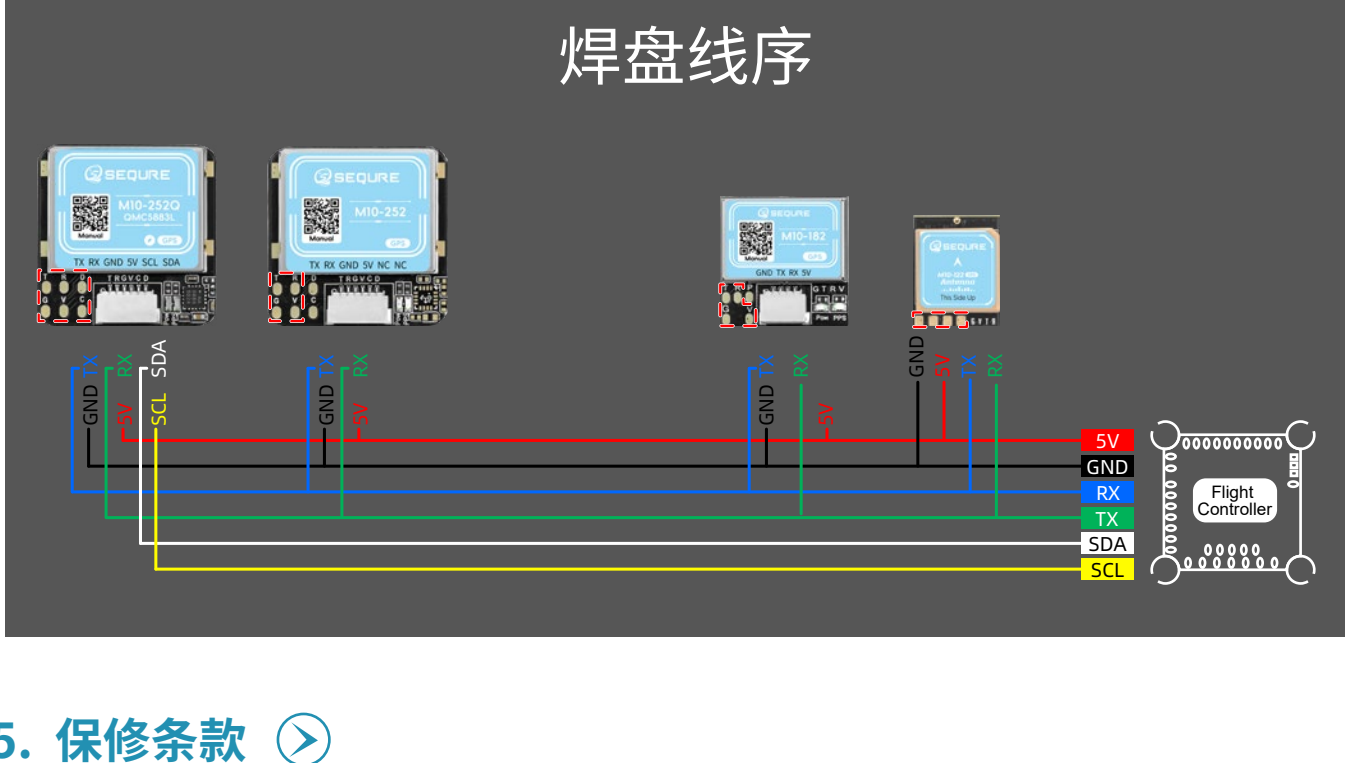
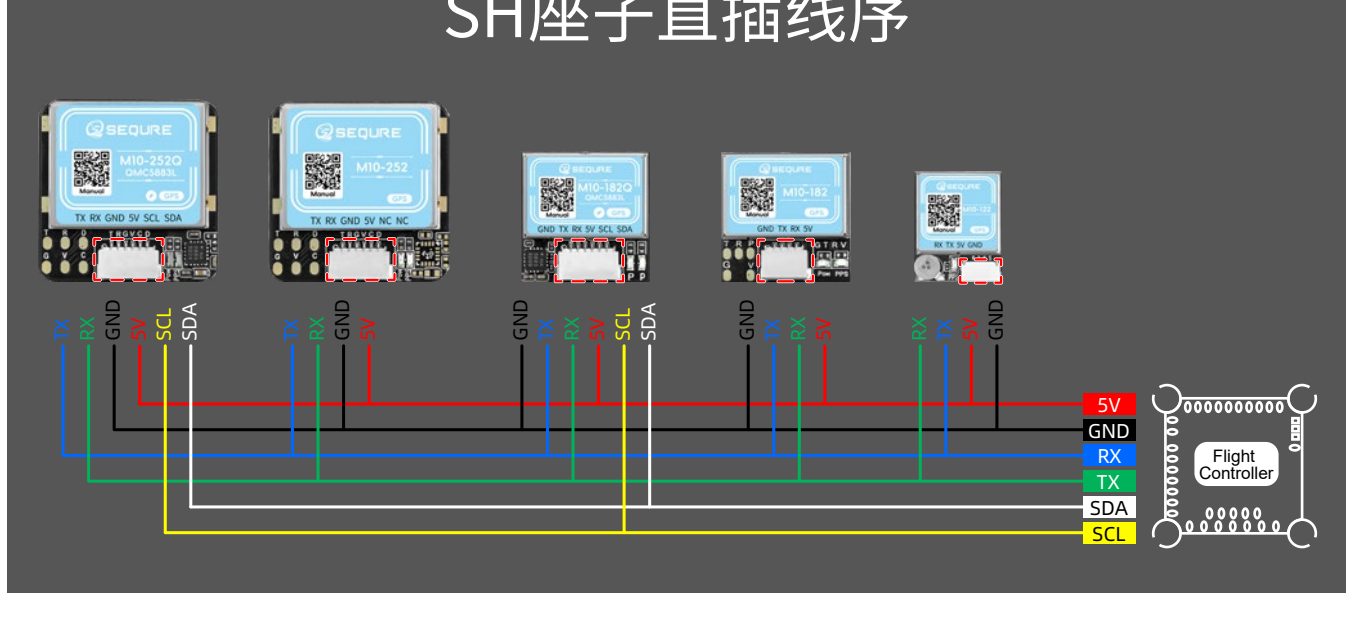
型号	M10-182	M10-122
芯片	M10050	M10050
工作模式	GPS+BDS+GALILEO	GPS+BDS+GALILEO
辅助系统	SBAS, QZSS	SBAS, QZSS
工作电压	3.3V-5V	3.3V-5V
尺寸	18*18*2mm	16*12*7.3mm
重量	8g	4.3g
接口	PCB 焊盘、Sh1.0 4pin直插座子	PCB 焊盘、Sh0.8 4pin直插座子
天线	陶瓷天线	陶瓷天线
接收频道	72个搜索频道	72个搜索频道
波特率	115200	4800-921600, 默认115200
输出协议	NMEA、UBLOX 双协议	NMEA、UBLOX 双协议
罗盘	/	/
输出频率	1Hz-10Hz, 默认10Hz	1Hz-18Hz, 默认10Hz
速度精度	0.05m/s	0.05m/s
水平定位精度	2D ACC1.5m (露天)	2D ACC1.5m (露天)
接收灵敏度	迹线-162dBm, 捕获-160dBm	迹线-162dBm, 捕获-160dBm
工作温度	-40℃ ~ +85℃	-40℃ ~ +85℃
存储温度	-40℃ ~ +105℃	-40℃ ~ +105℃

3. 尺寸重量



4. 接线图

▲ 注: 通电前请确认接线无误, 否则有损坏产品风险



5. 保修条款

- (1) 自购机之日起3个月内出现非人为因素造成的性能故障, 厂家提供免费维修服务. 3个月后, 修理不收取人工费, 若更换配件, 费用需用户承担。
- (2) 一切人为损坏, 自行拆机, 使用不当造成的故障, 不在保修范围。

6. 安全须知

- 请供电前检查并确保正负极性无误, 才能通电使用。
- 请在符合当地法规和确保安全情况下使用产品。
- 请使用符合安全标准的配件, 存放在儿童不容易接触的地方。



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