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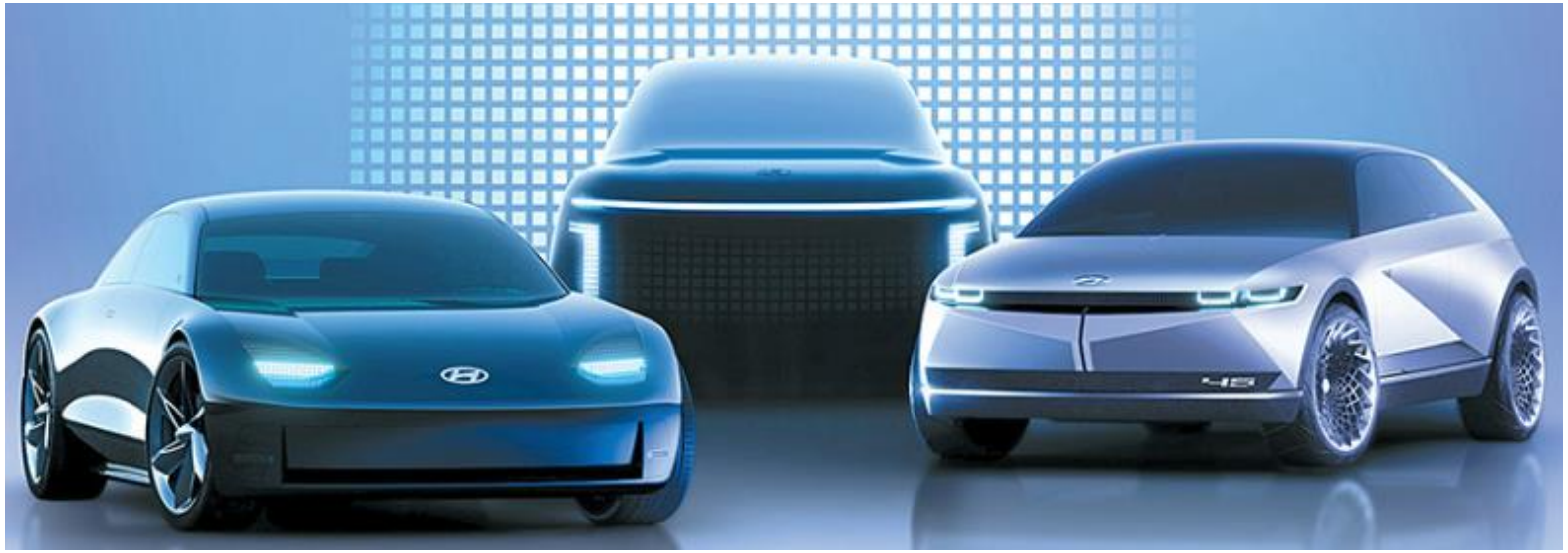
조립 및 회로 제작

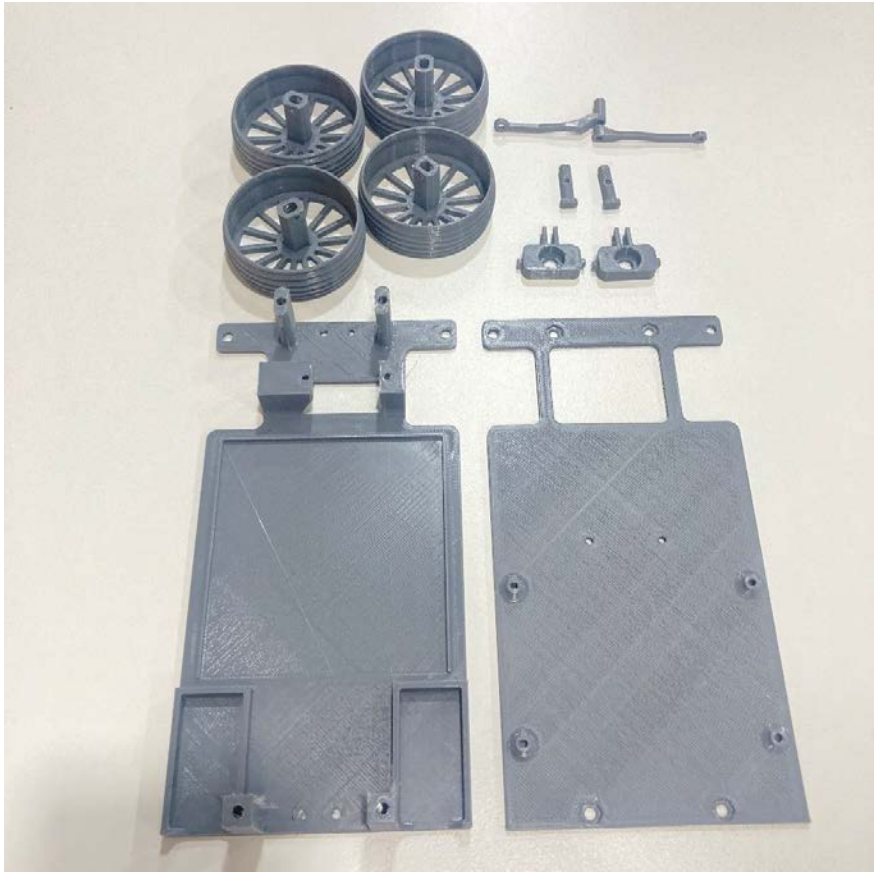


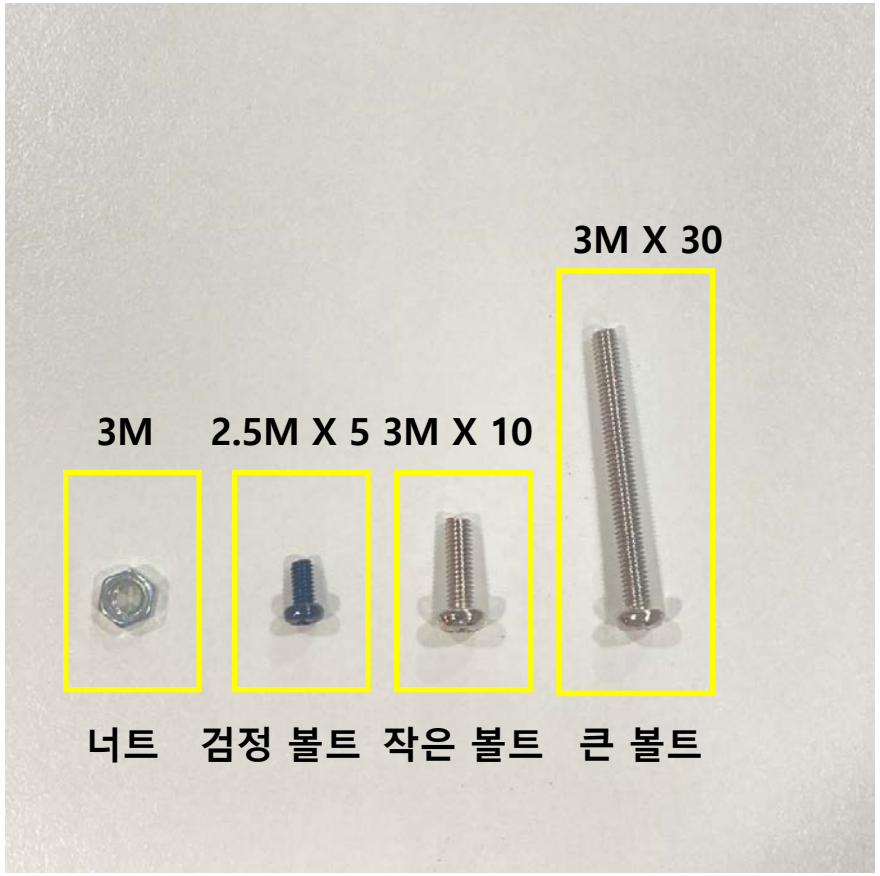
ONECLICK AI

3D프린터 출력물 조립

3D 프린터 구성품

3D 프린터 출력물이 불량인 경우가 있습니다. 조립하다가 불량인 경우 얘기해주시면 출력물을 교체해드립니다.
카메라 거치대의 경우 전기차, 자율주행 전기차하고 부품이 다르므로 부득이하게 구성품에서 제외했습니다.





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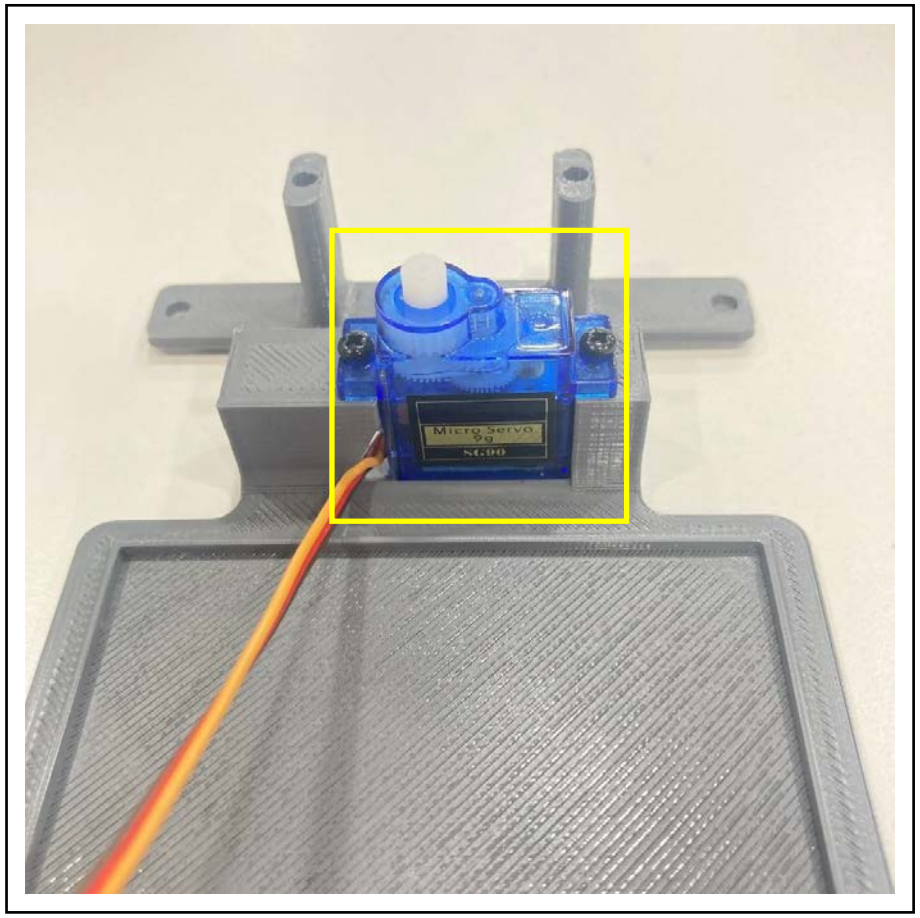
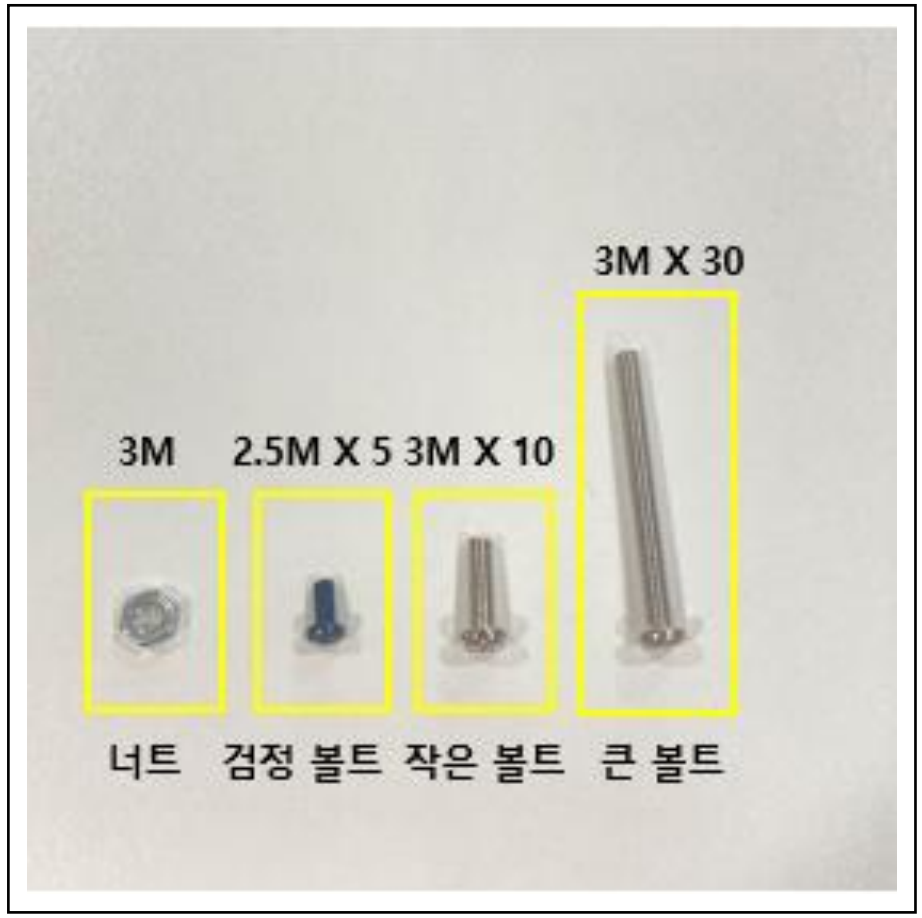
3D프린터 출력물 조립

서보모터를 가운데 배치하고 검정 볼트로 결합해 주세요.





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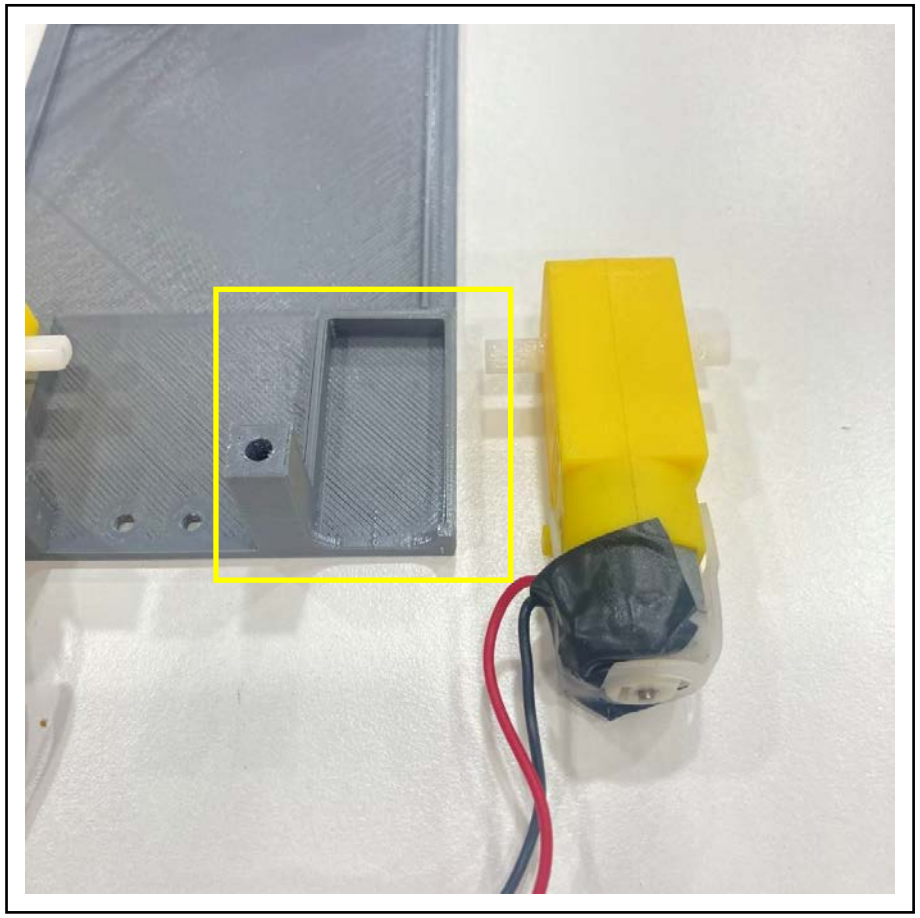
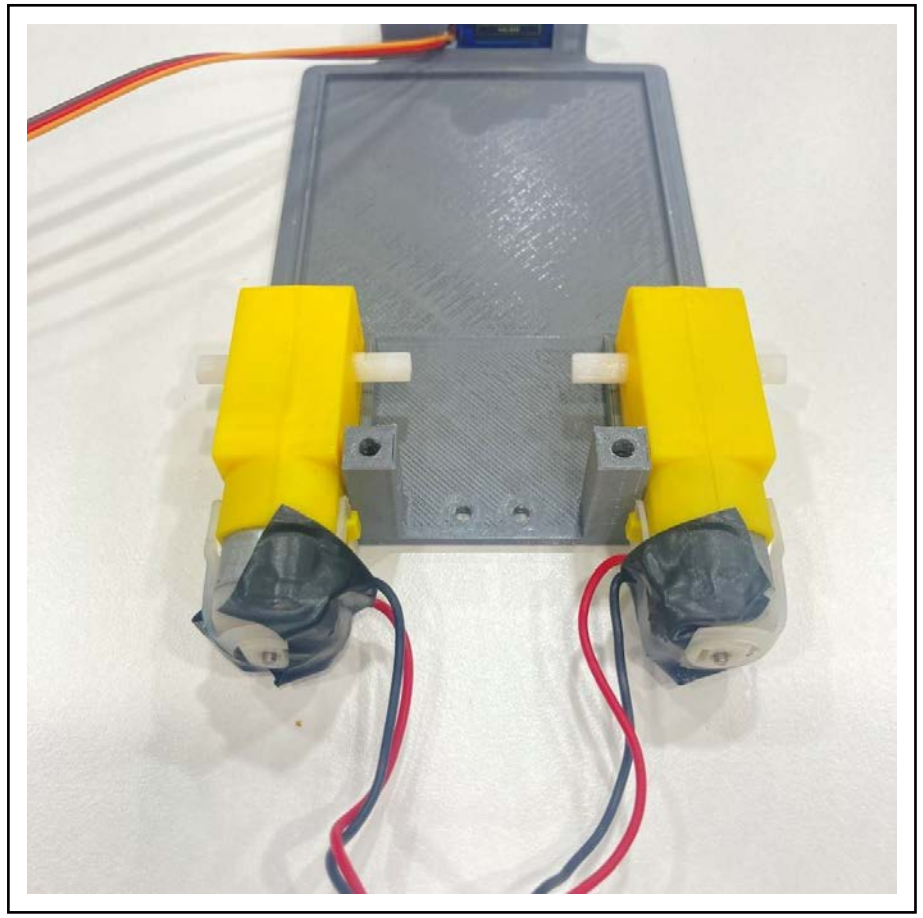
3D프린터 출력물 조립

기어드 모터를 사진과 동일하게 결합해 주세요.





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3D프린터 출력물 조립

바퀴에 고무링을 결합해 주세요.

구성품



결과물



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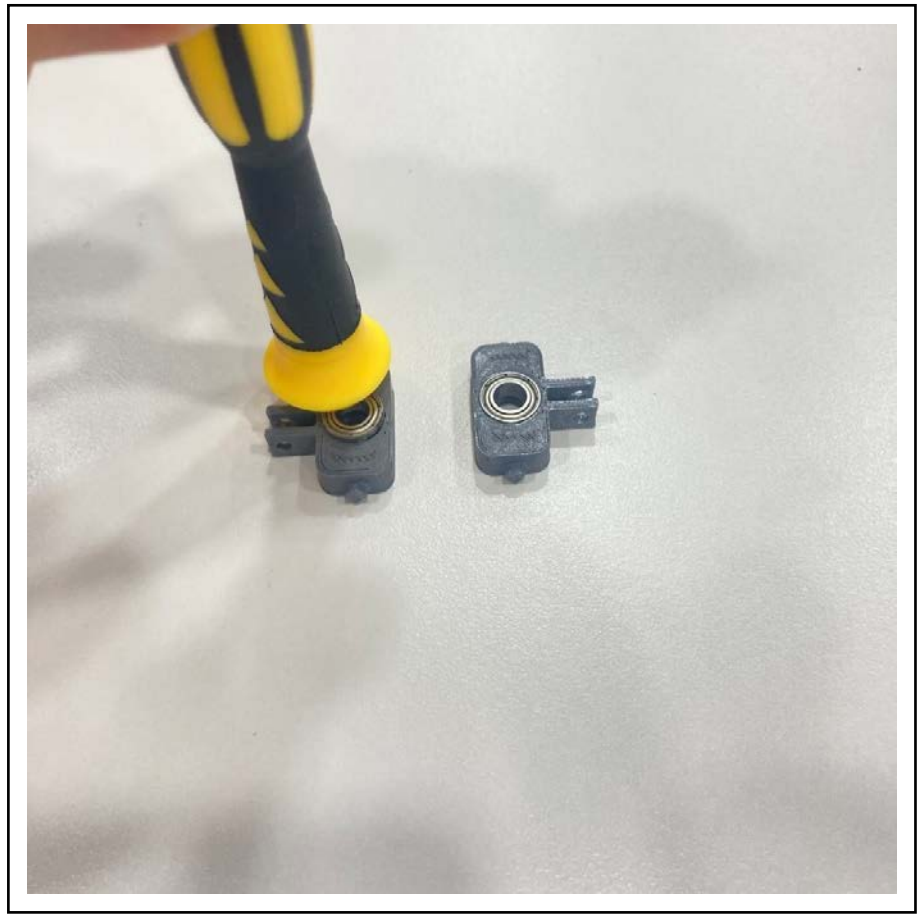
3D프린터 출력물 조립

베어링을 바퀴축에 결합해 주세요.

잘 안 들어갈 경우 드라이버를 이용해서 결합해 주세요.





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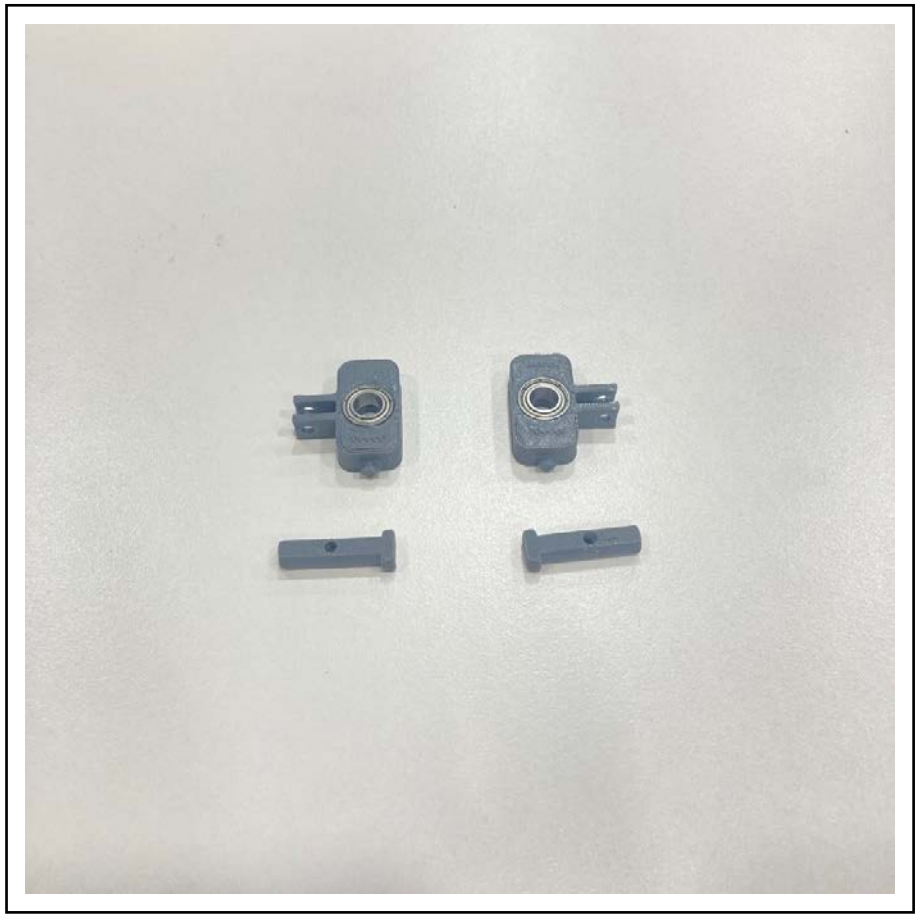
3D프린터 출력물 조립

바퀴축에 막대기를 결합해 주세요.

구성품



결과물



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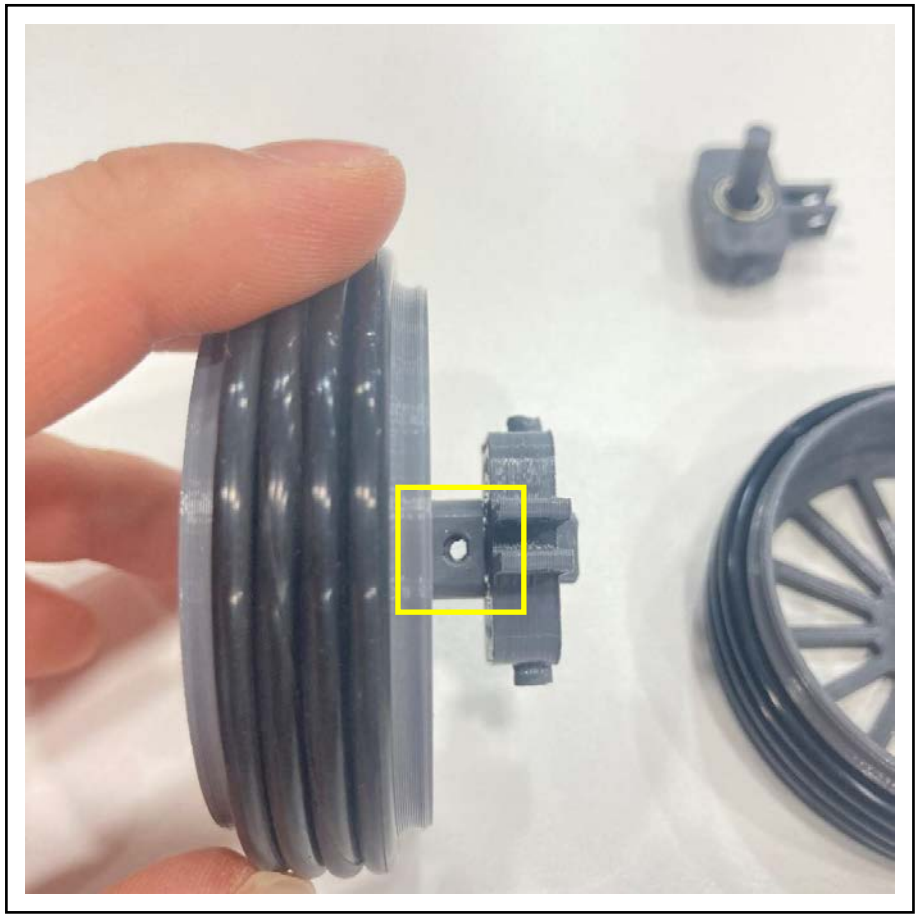
3D프린터 출력물 조립

바퀴 & 바퀴축을 결합해 주세요.

만약 잘 안 들어가서 2번째 사진처럼 구멍이 안 생기면 얘기해 주세요.





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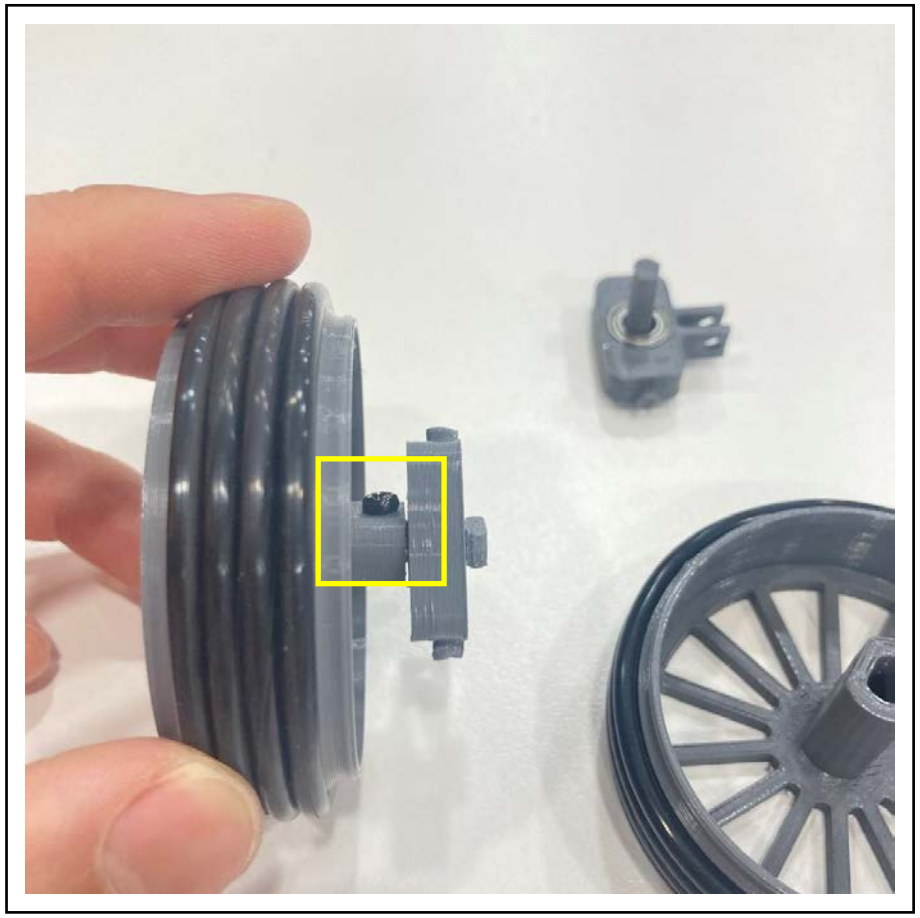
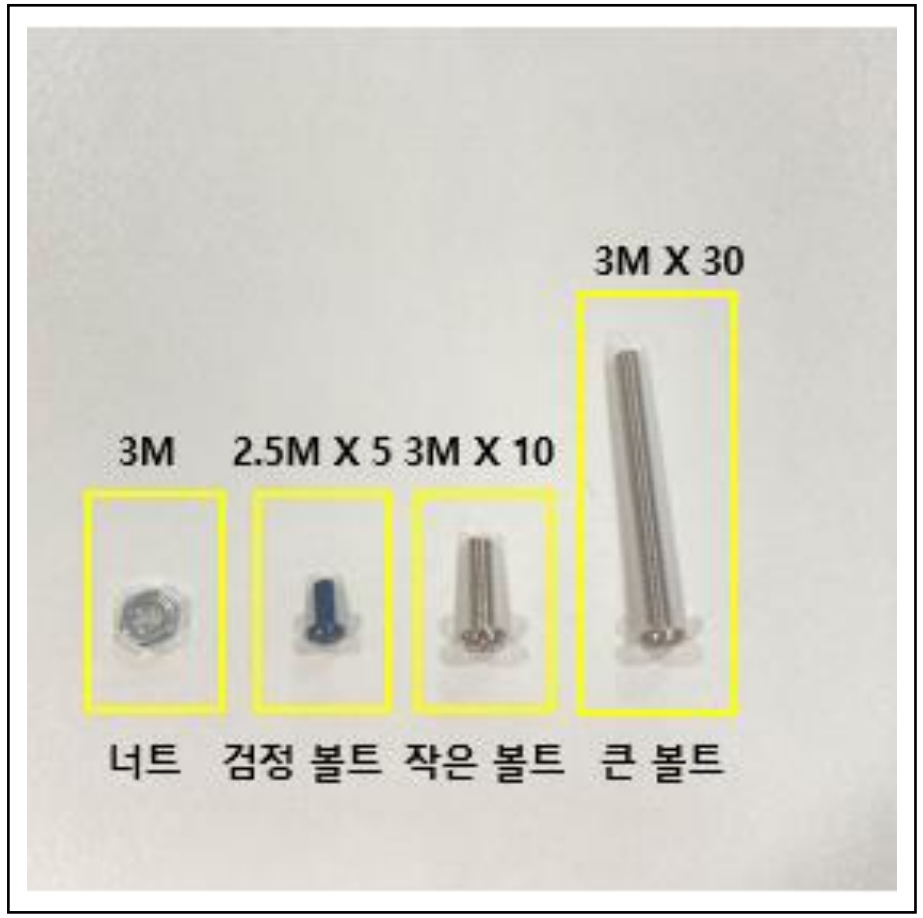
3D프린터 출력물 조립

검정 볼트로 결합해 주세요.





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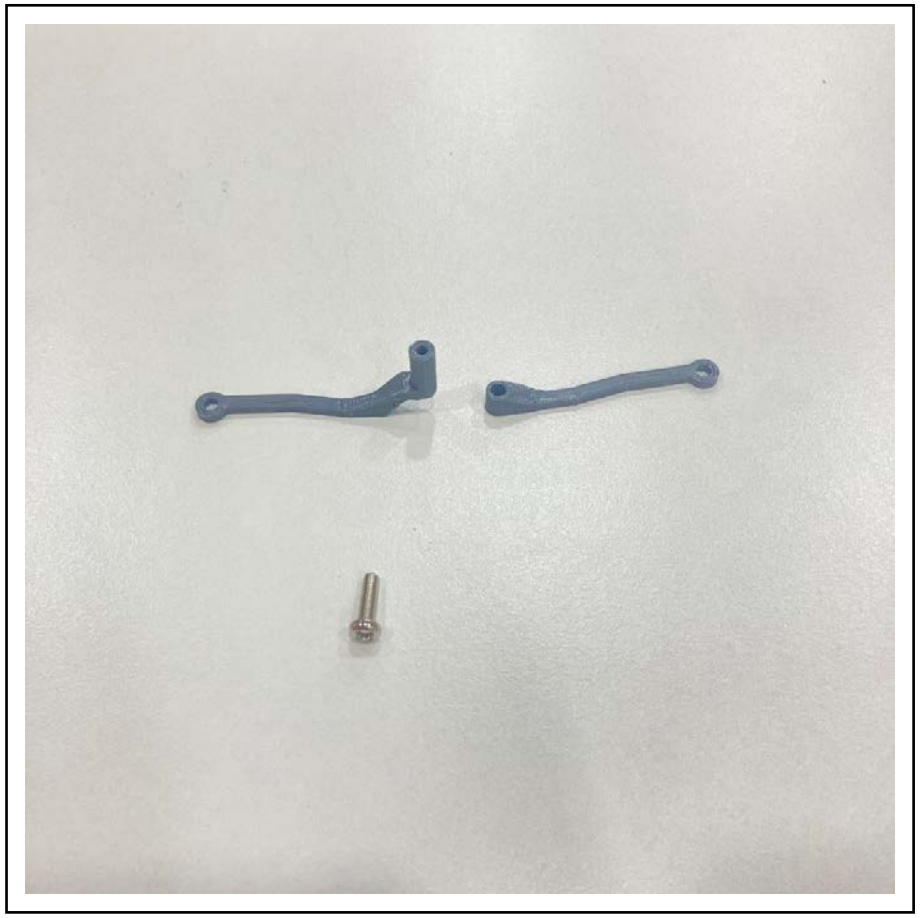
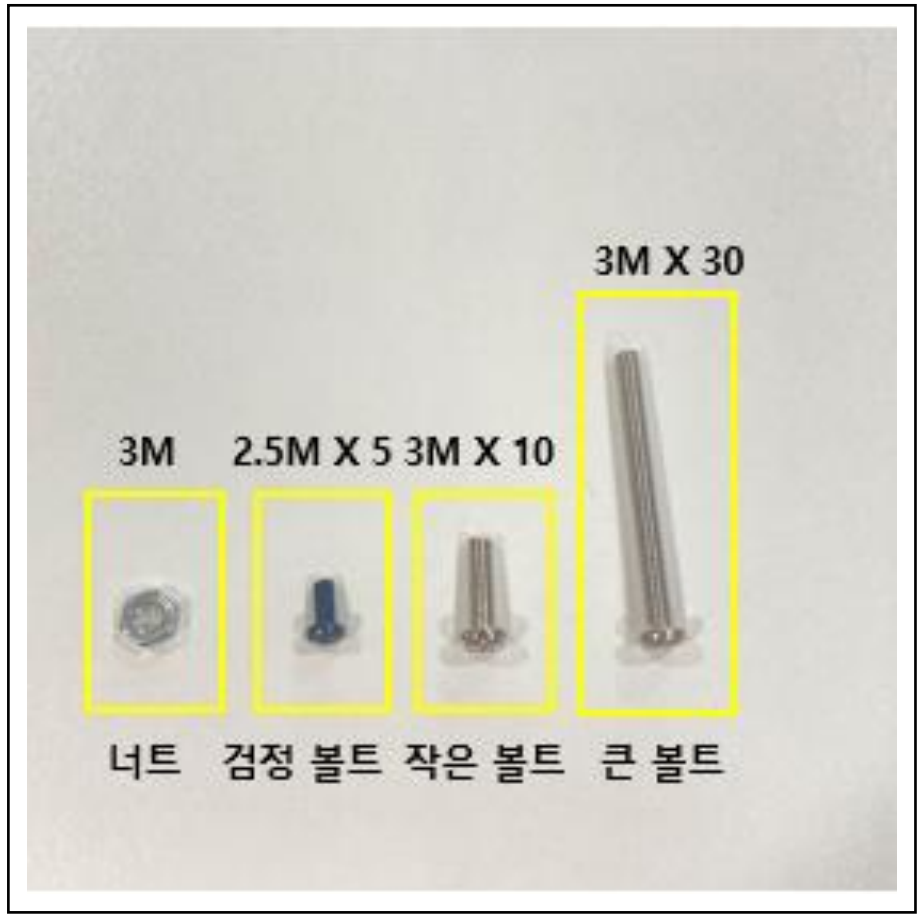
3D프린터 출력물 조립

작은 볼트로 결합해 주세요. (다음장을 이어서 봐주세요.)





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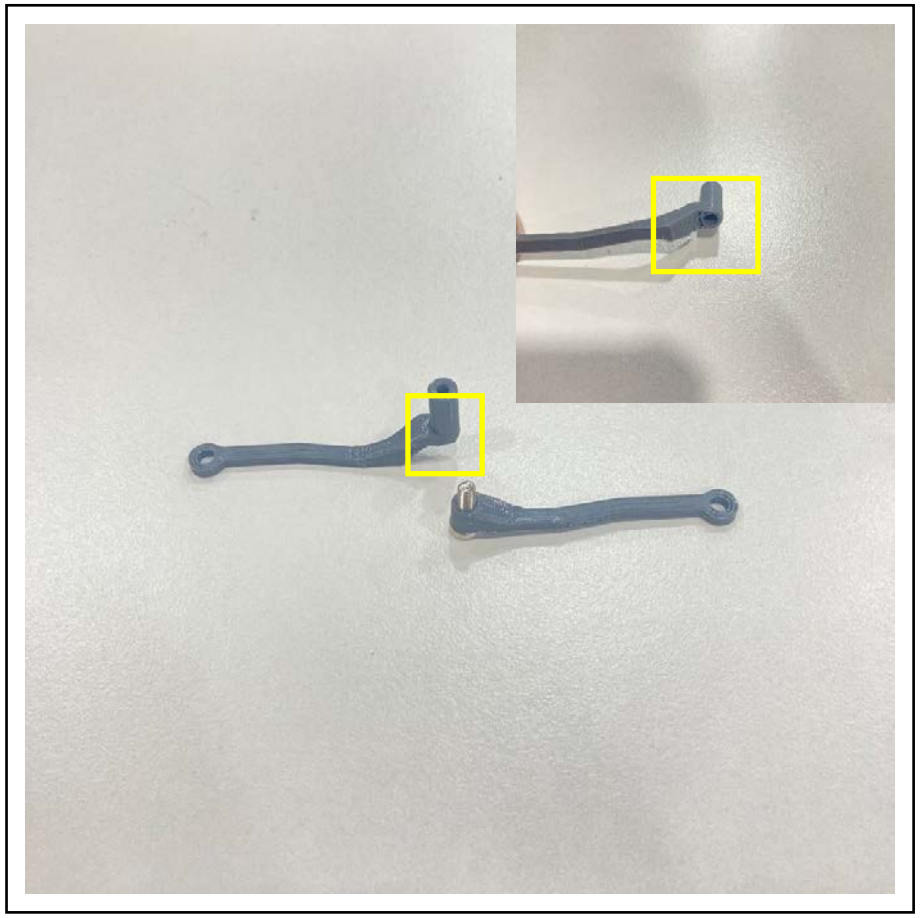
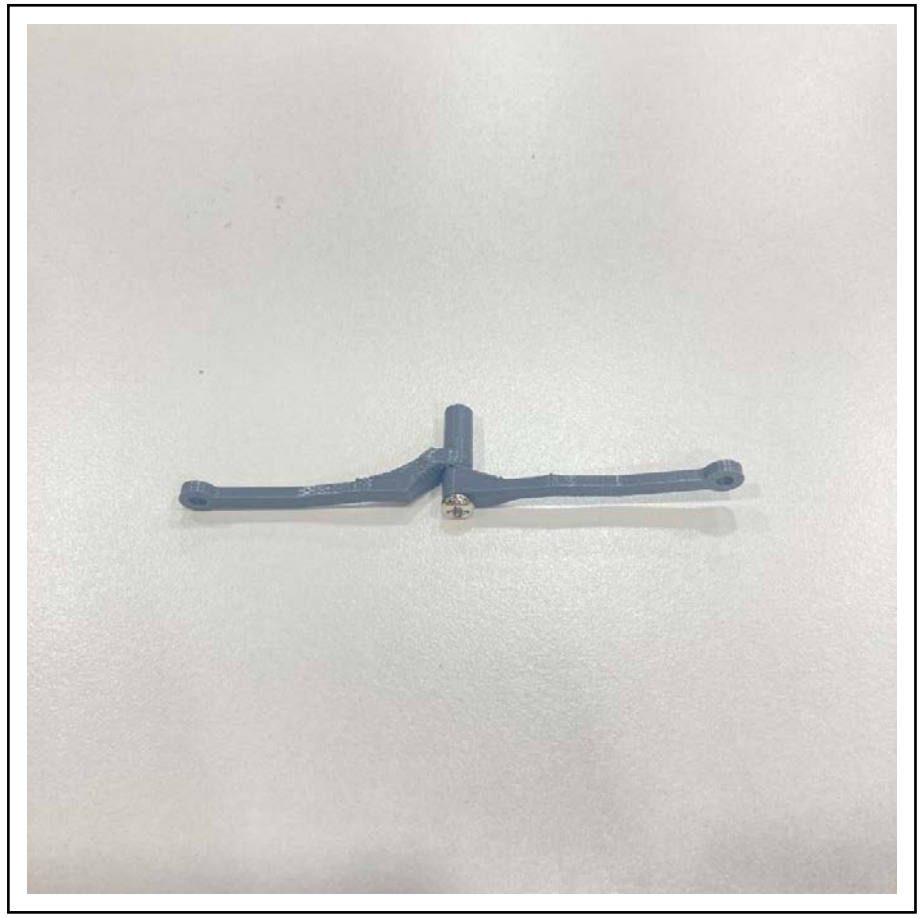
3D프린터 출력물 조립

볼트 결합이 잘 안 될 경우 드라이버로 공간을 만들어 주세요.





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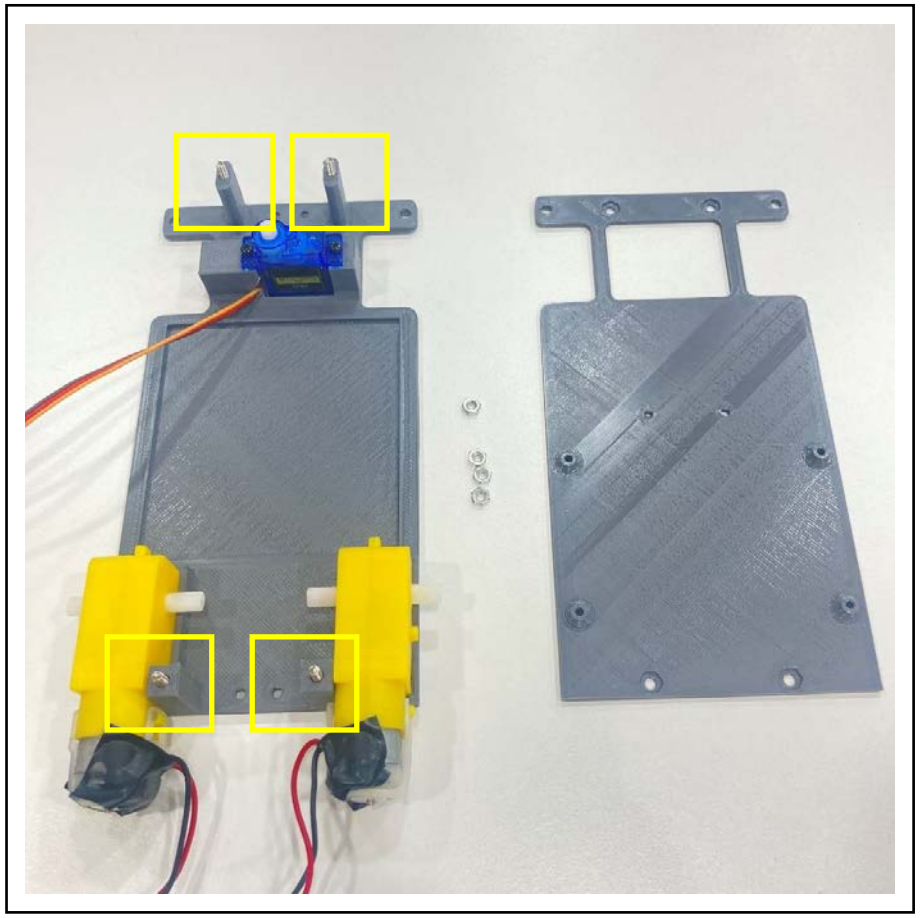
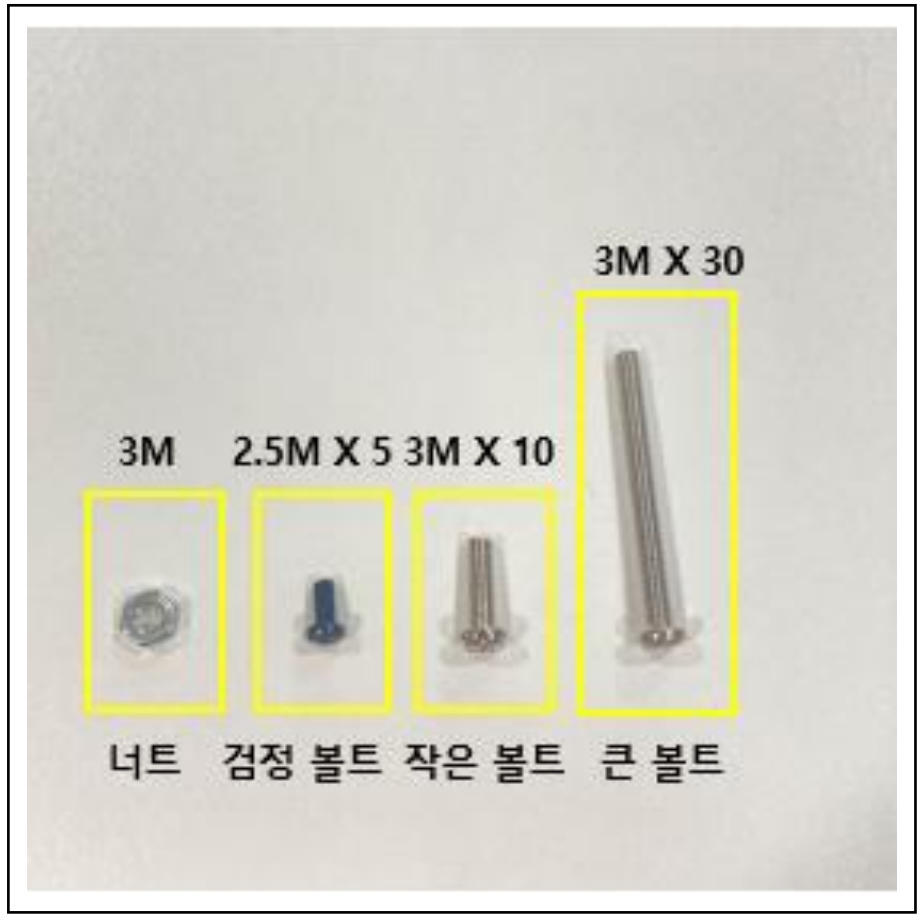
3D프린터 출력물 조립

큰 볼트로 결합해 주세요.





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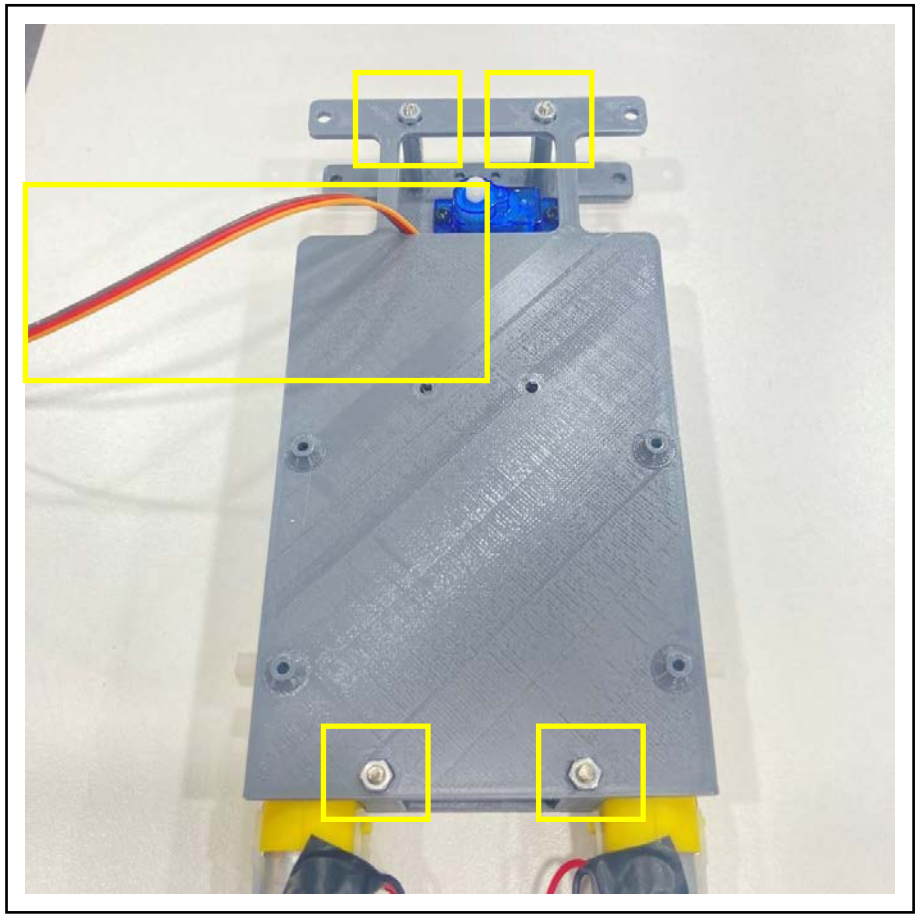
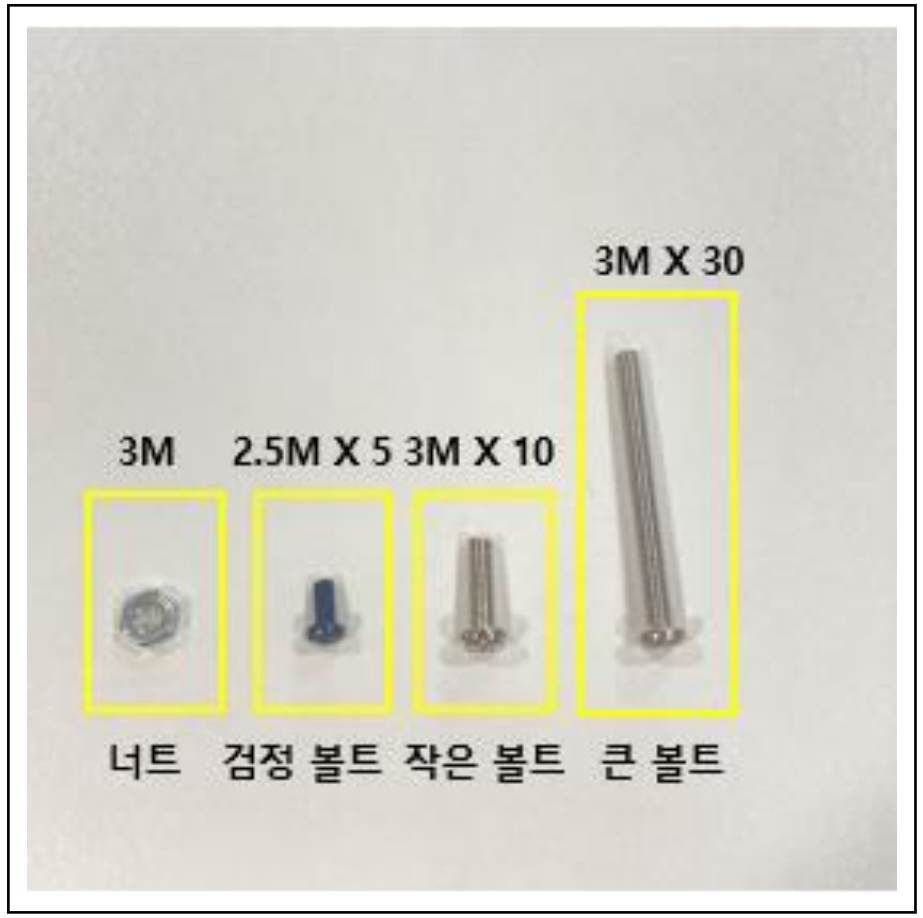
3D프린터 출력물 조립

너트로 결합해 주세요.

서보모터 전선을 밖으로 빼 주세요.





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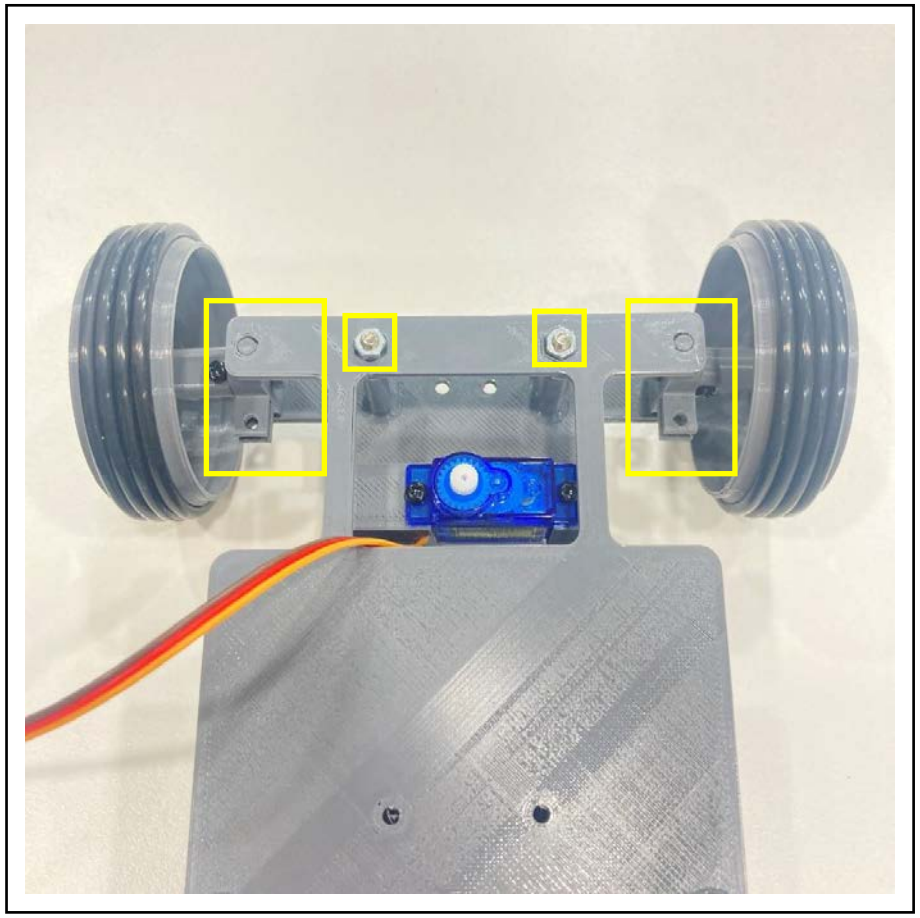
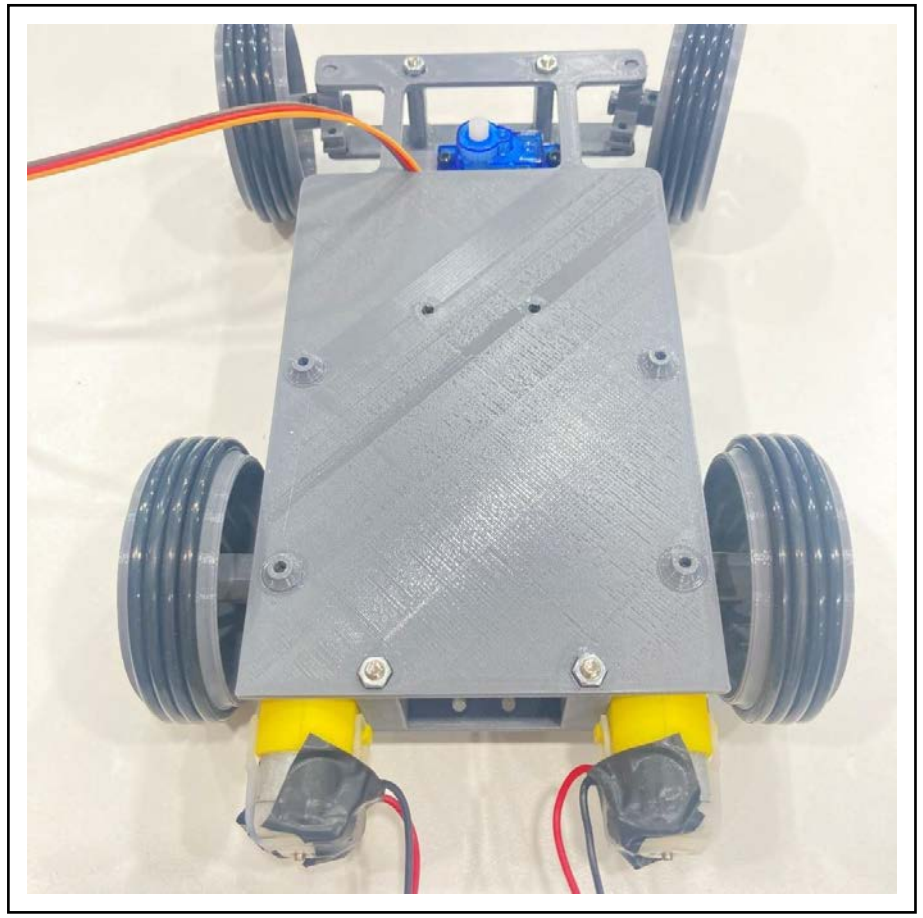
3D프린터 출력물 조립

바퀴를 결합해 주세요.

앞바퀴의 경우 방향이 아래로 향해야 합니다.
그리고 결합이 잘 안될 경우 앞에 너트를 조금 풀어준 다음에 결합해 주세요.





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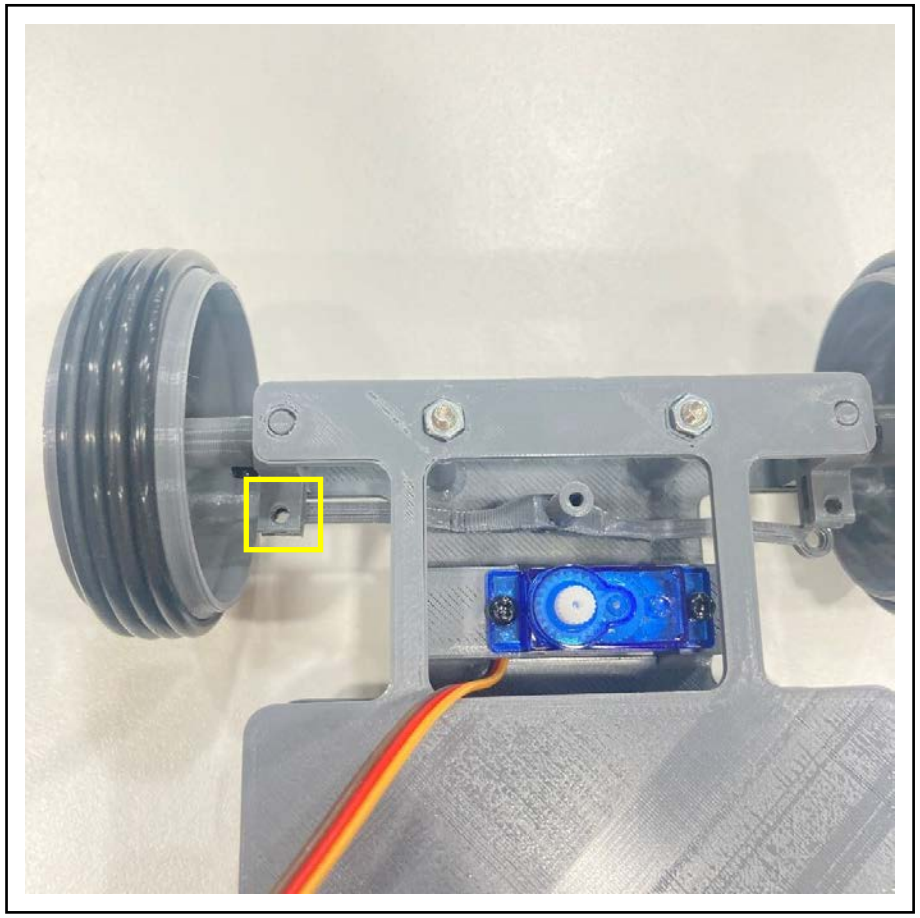
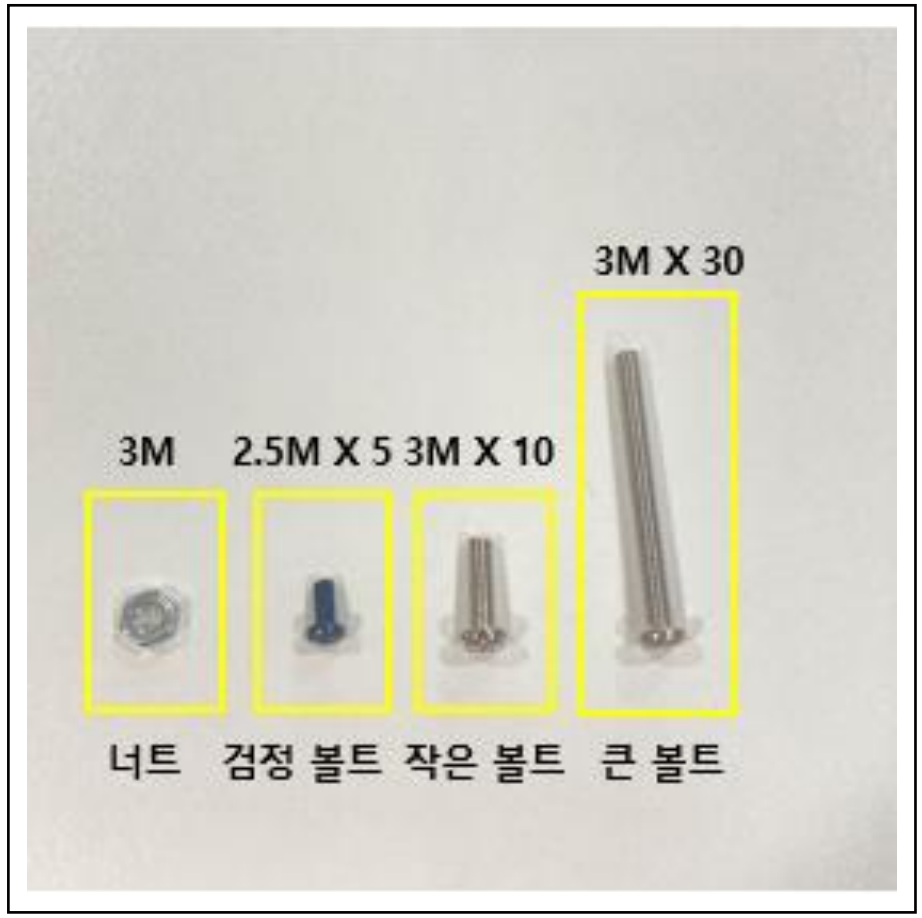
3D프린터 출력물 조립

검정 볼트로 결합해 주세요.(다음장을 이어서 봐주세요.)





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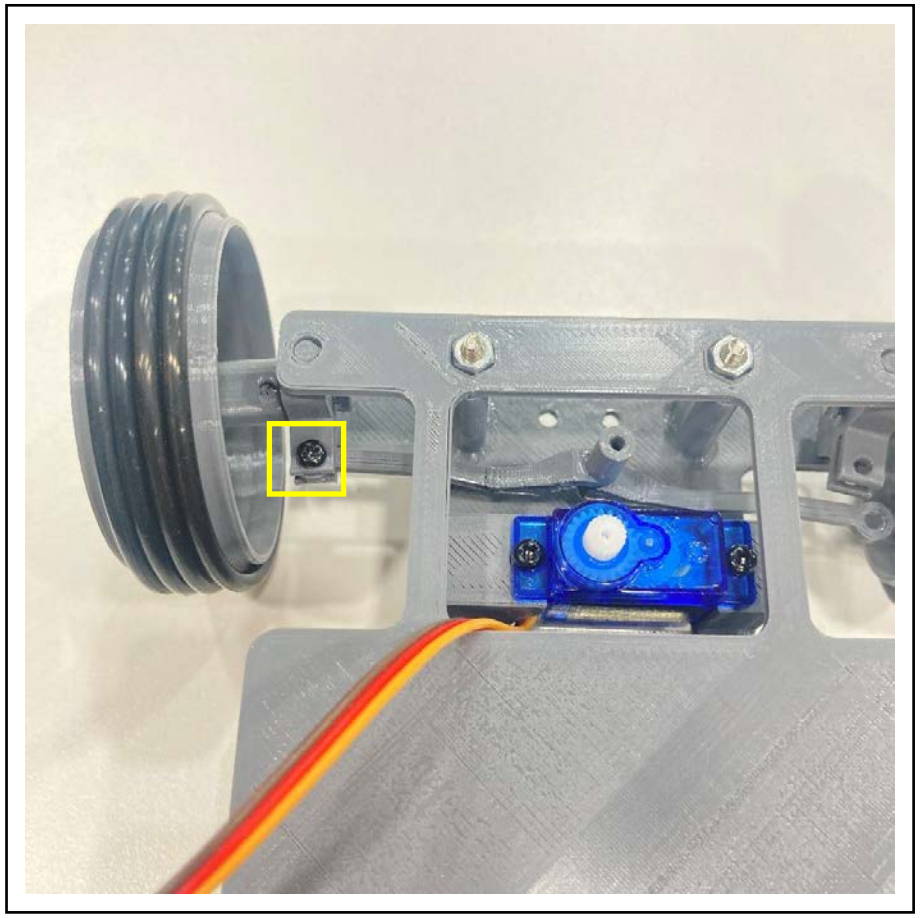
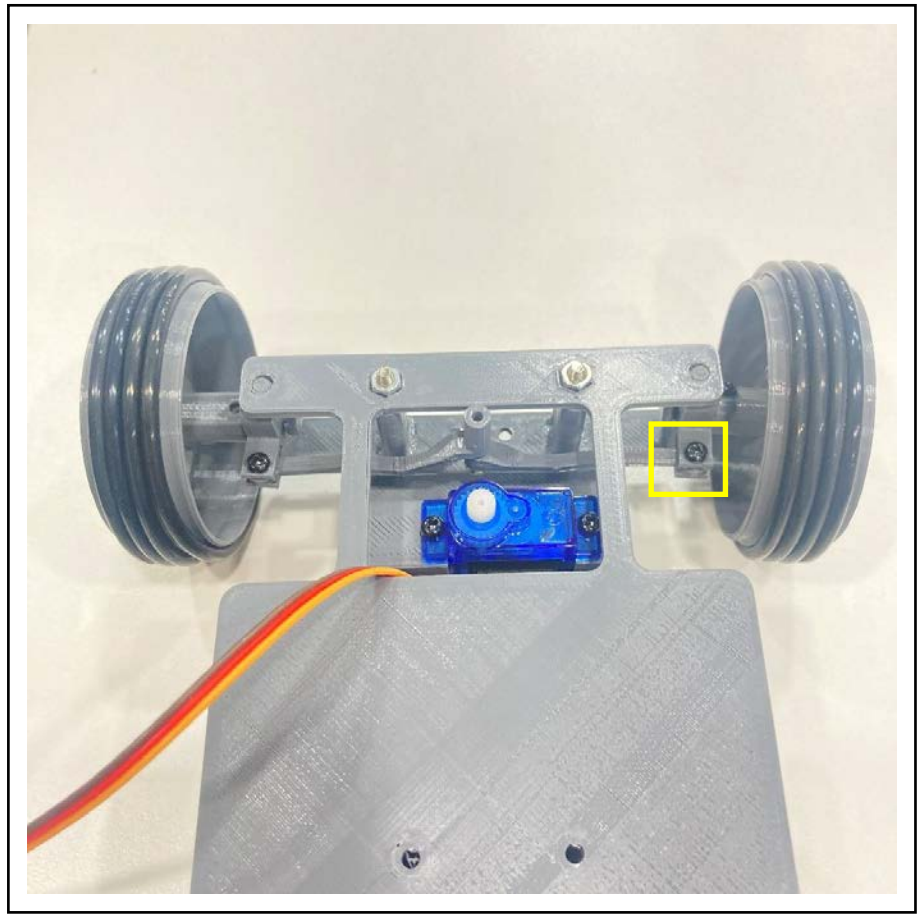
3D프린터 출력물 조립

반대부분도 동일하게 결합해 주세요.





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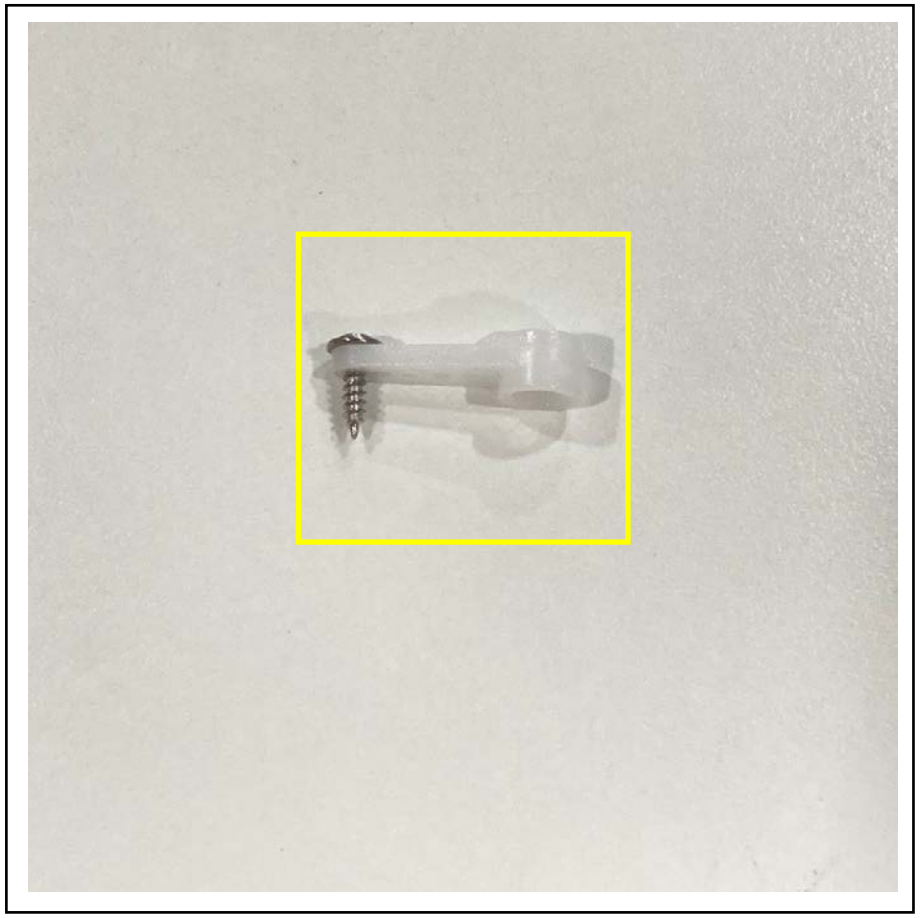
3D프린터 출력물 조립

서보 모터 구성품인 조향 막대하고 나사를 드라이버로 결합해 주세요.

사진과 같은 방향으로 드라이버로 나사에 힘을 주어 돌려야 합니다.
조향 막대는 서보 모터 동작 테스트를 한 다음에 결합해야 하므로 잠시 보관해주세요.





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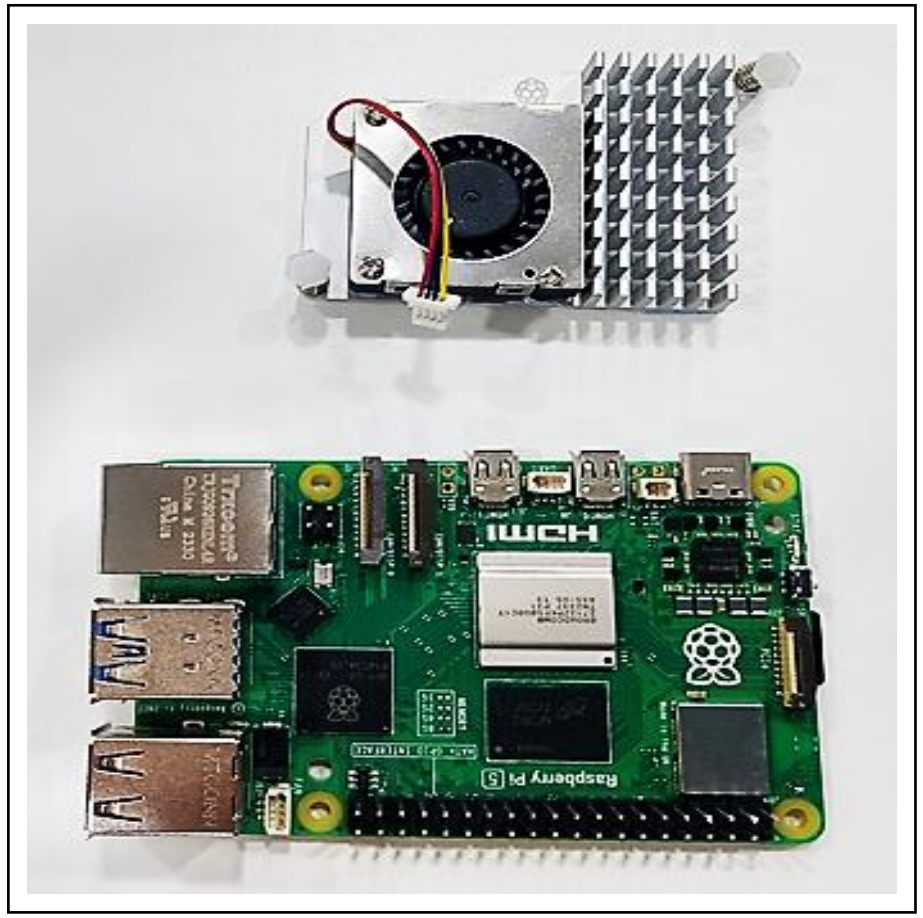
전기차 회로 조립

라즈베리파이5, 액티브 쿨러를 꺼내주세요.





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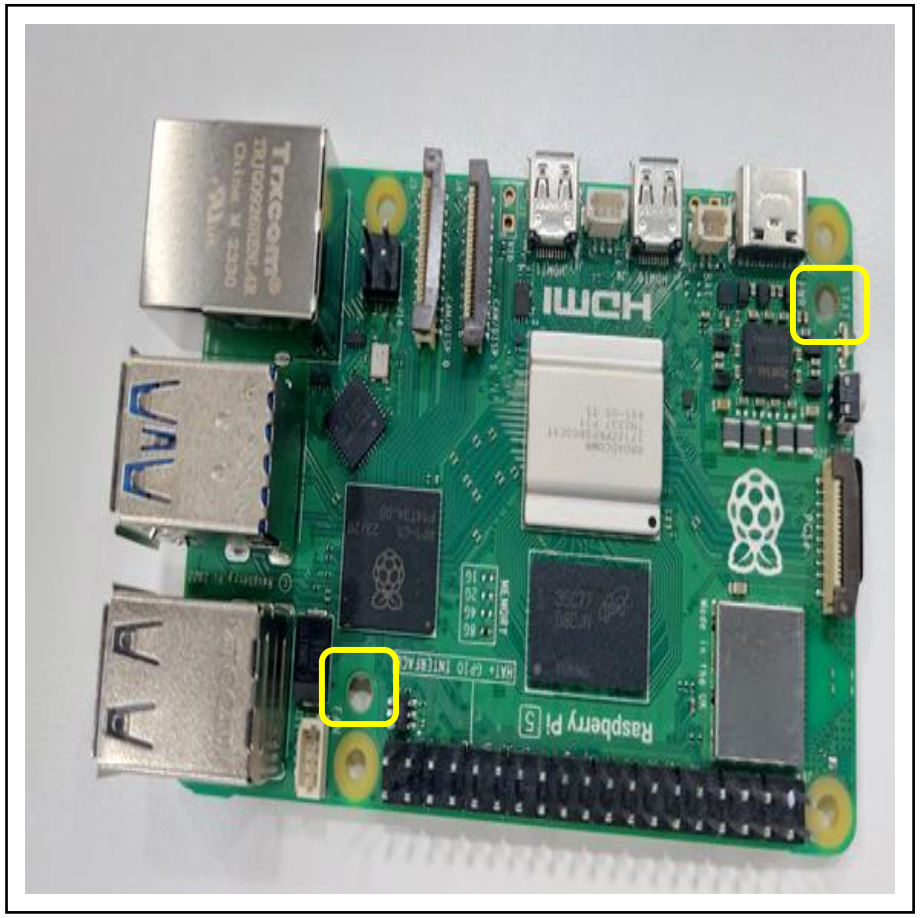
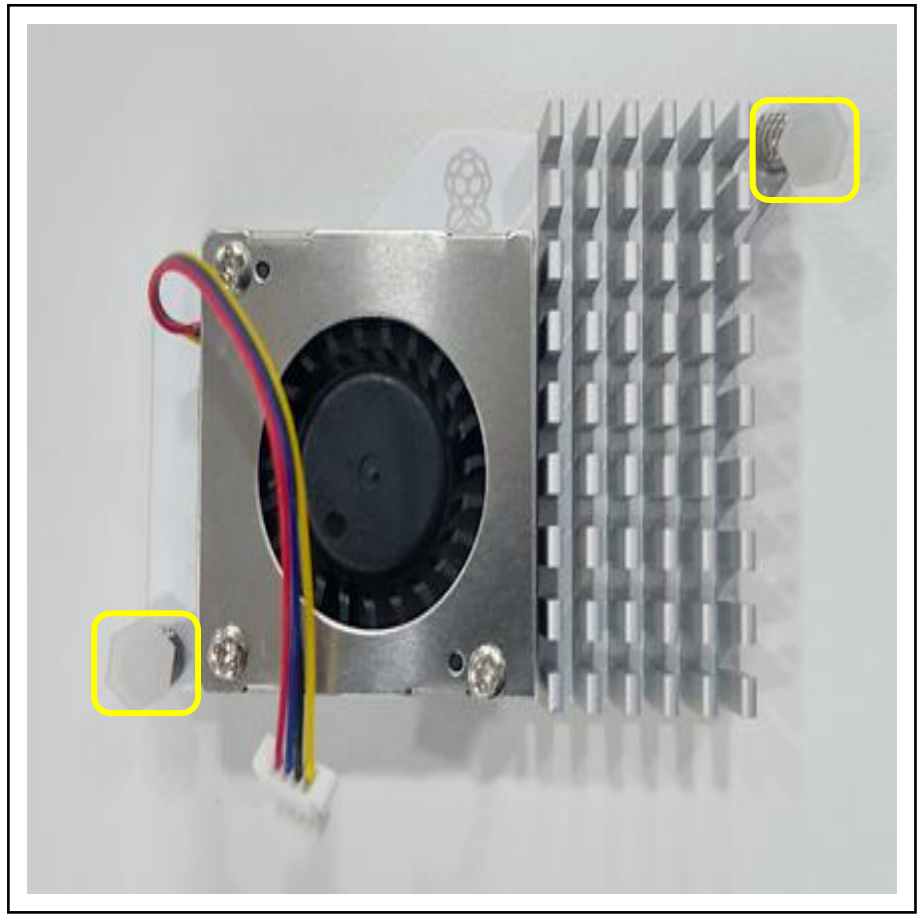
전기차 회로 조립

사진에 표시된 부분에 액티브 쿨러를 결합해야합니다.





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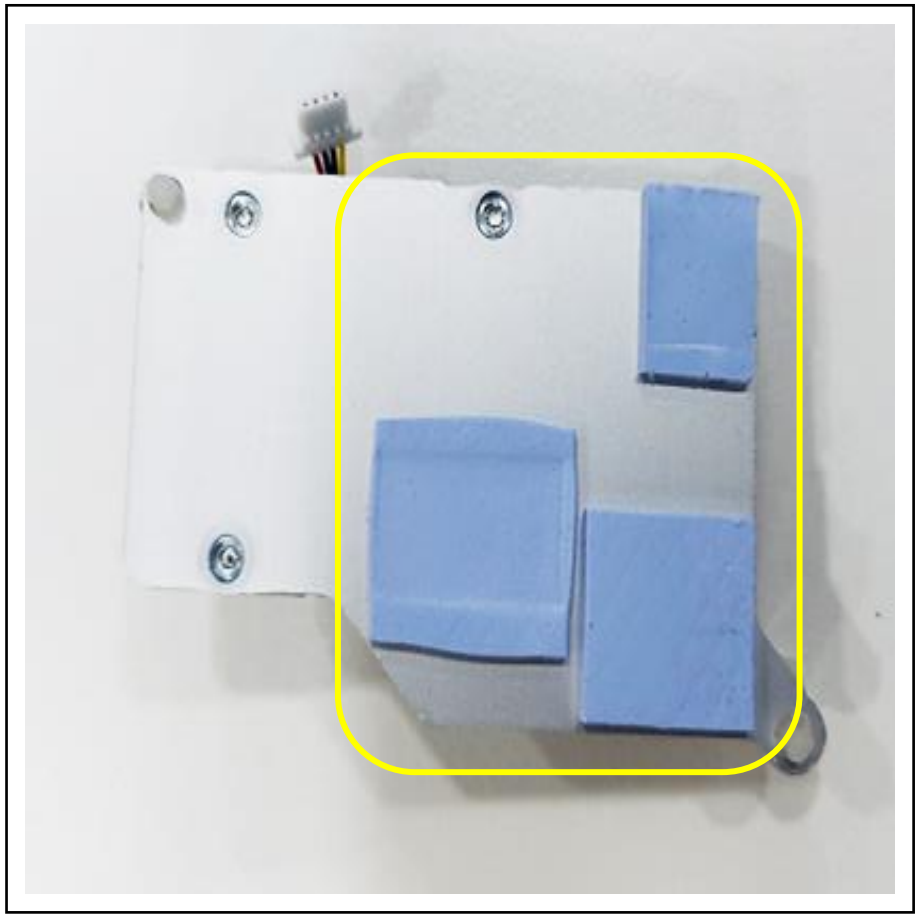
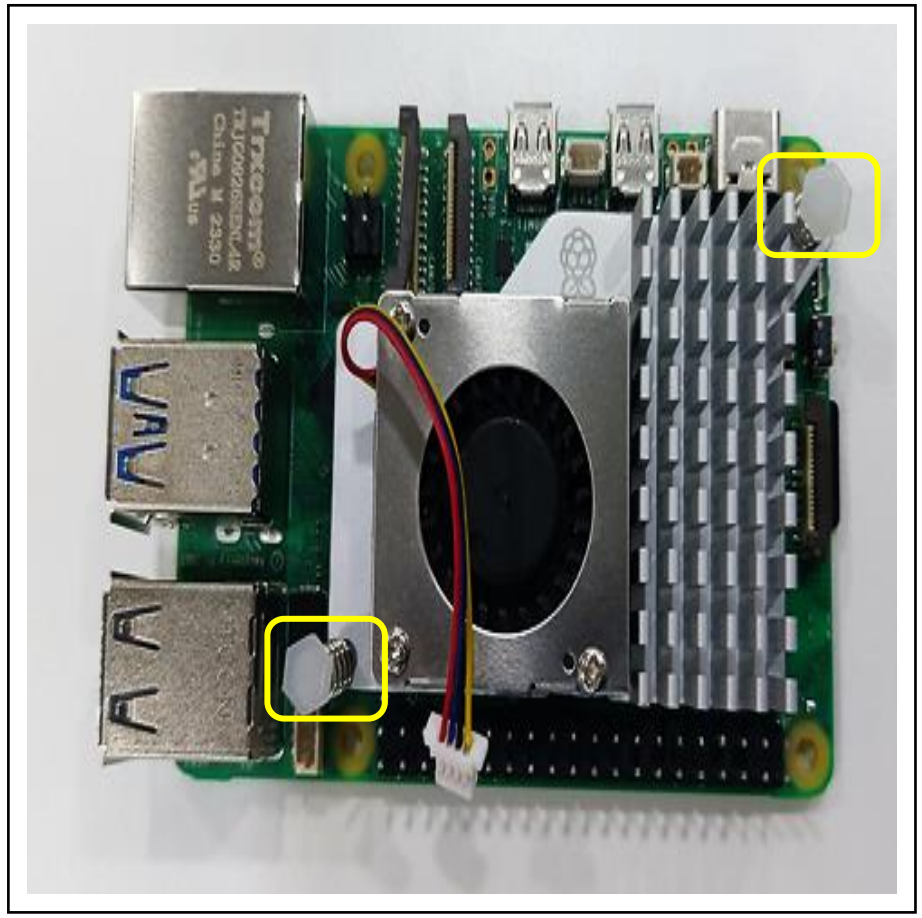
전기차 회로 조립

액티브 쿨러 밑면에 서멀 패드가 부착되어 있어 보호 비닐을 제거 후 홈에 맞춰 결합해 주세요.





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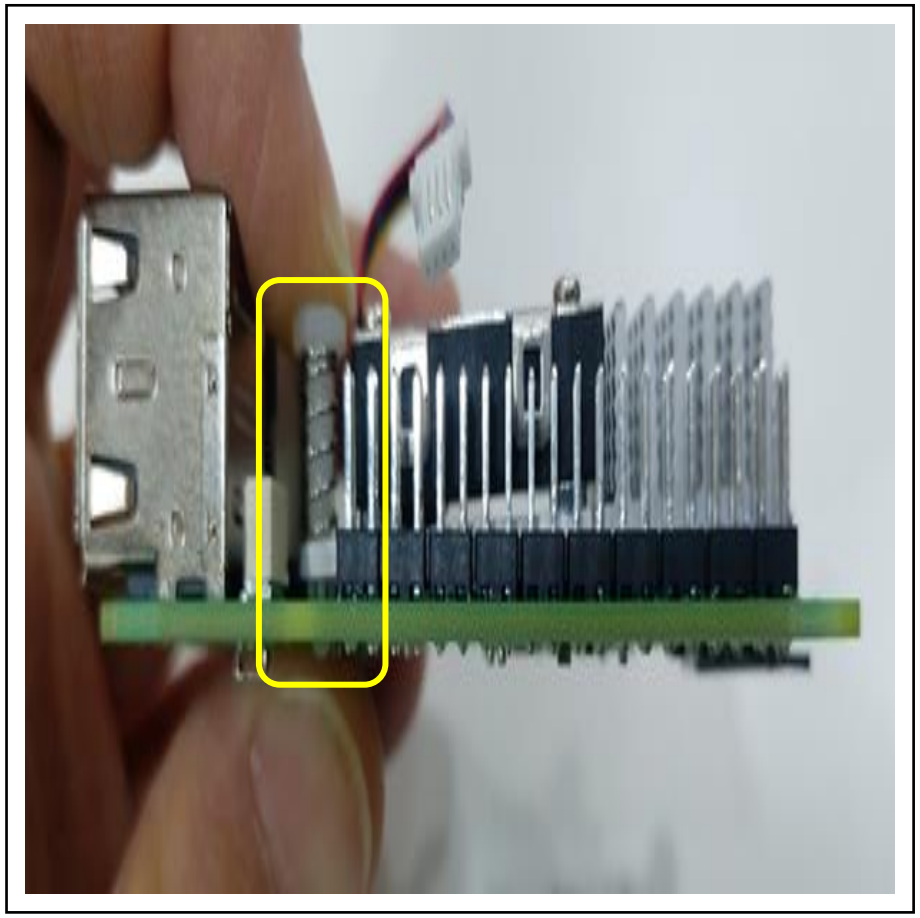
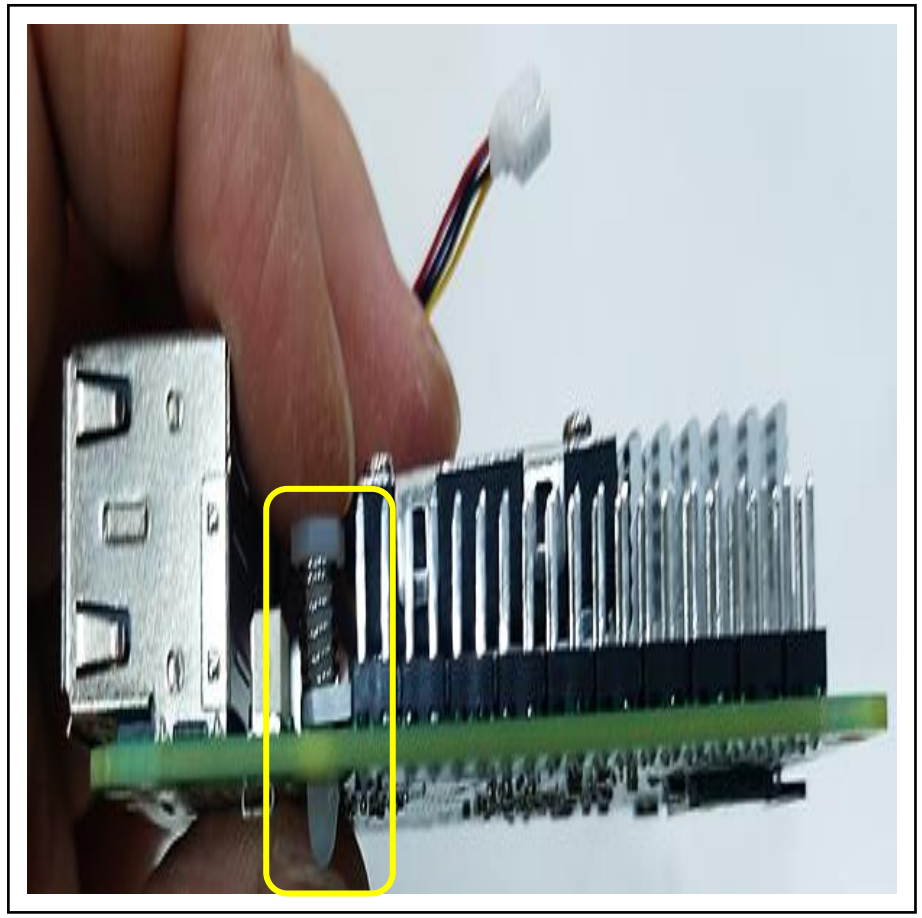
전기차 회로 조립

스프링과 결합된 플라스틱 부분을 밑으로 눌러주어 라즈베리파이 홈에 끼워주세요.





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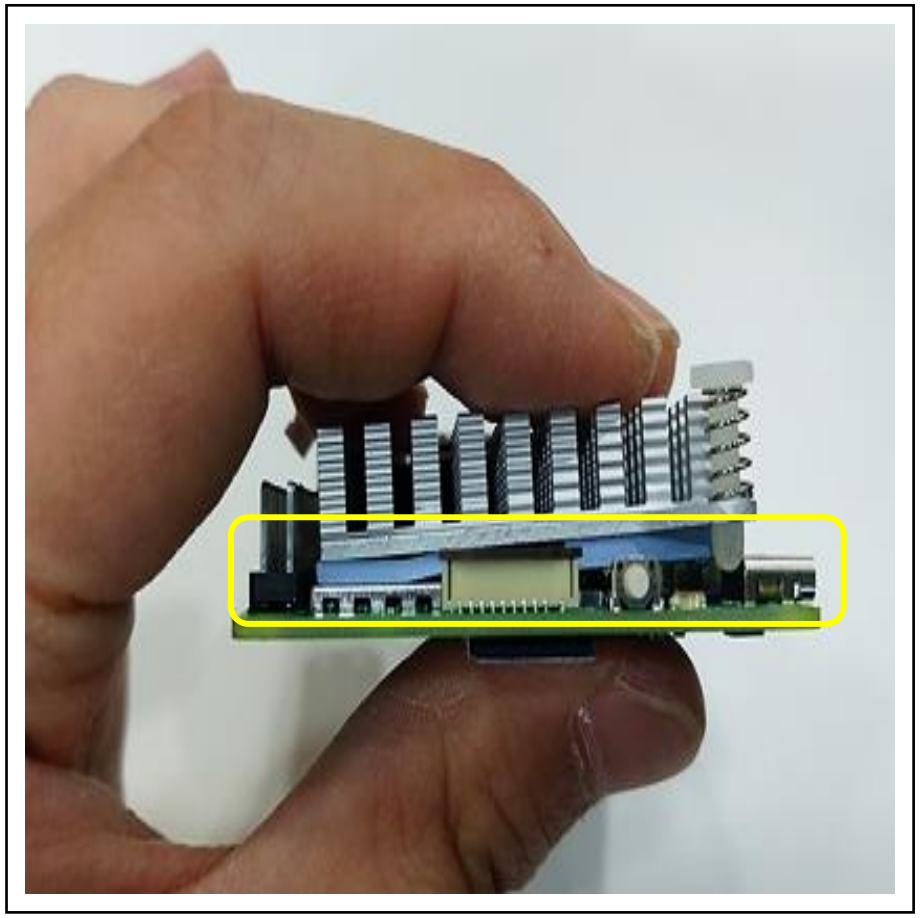
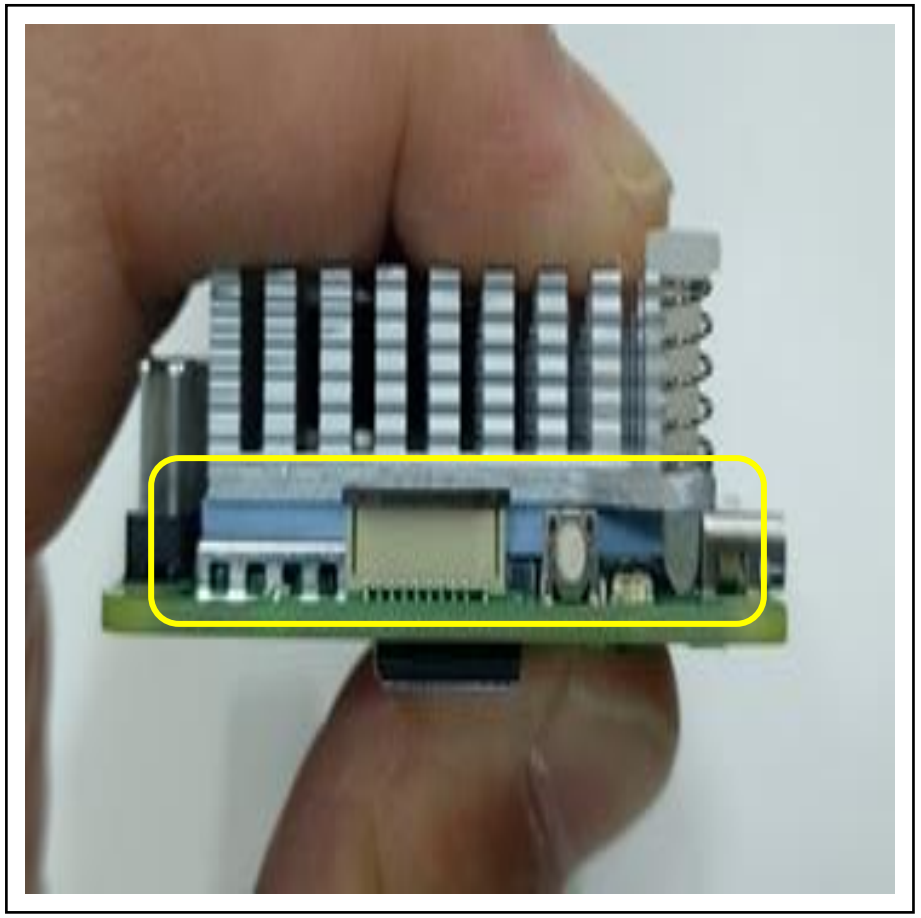
전기차 회로 조립

나머지 홈을 끼우기 전에 쿨러 방열판을 살짝 눌러 쿨러의 수평을 맞춘 상태에서 스프링과 결합된 플라스틱을 눌러주세요.





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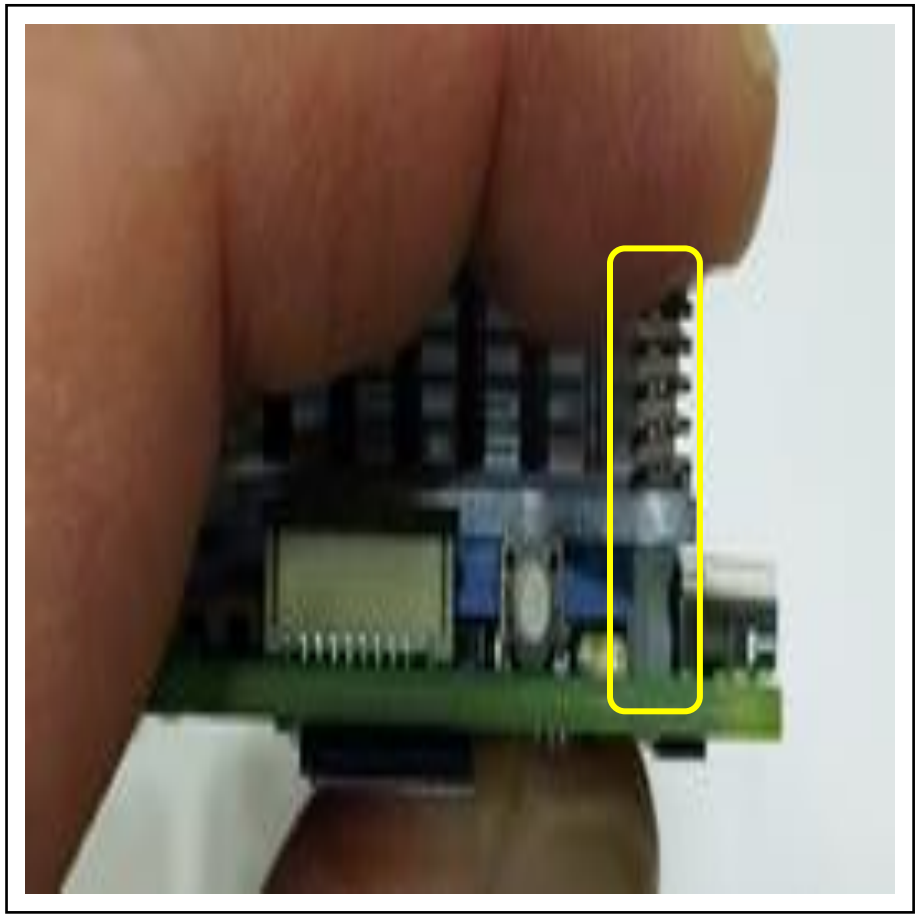
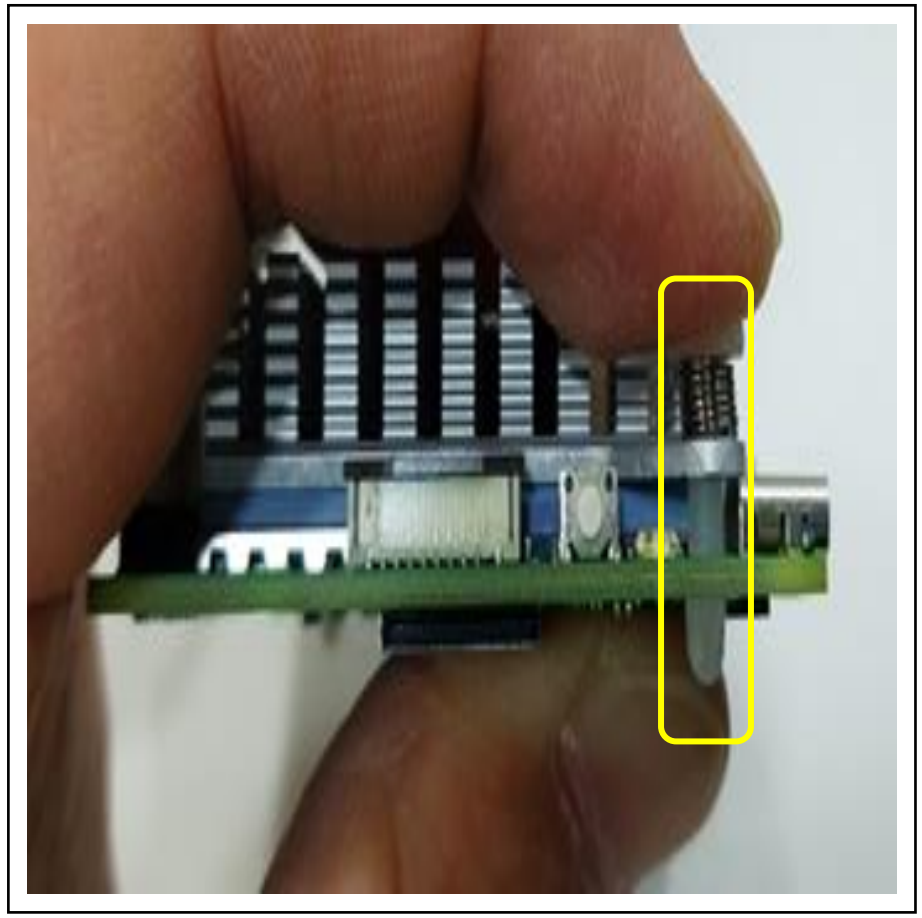
전기차 회로 조립

사진과 같이 액티브 쿨러가 라즈베리파이에 결합해 주세요.





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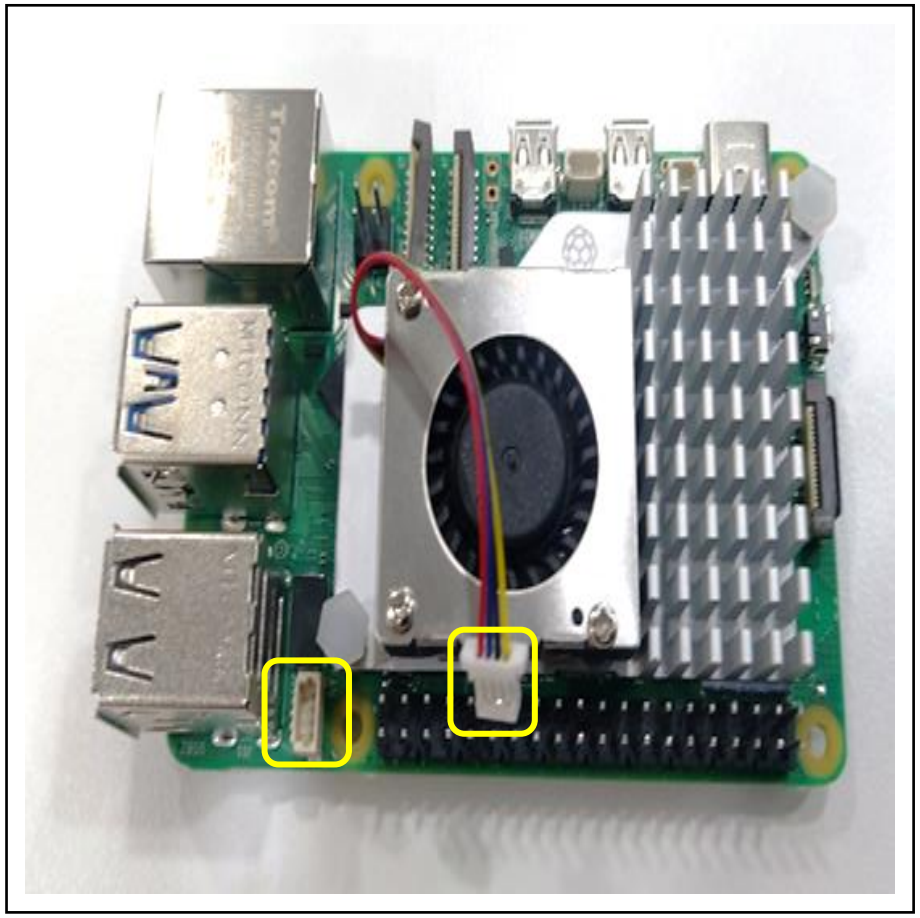
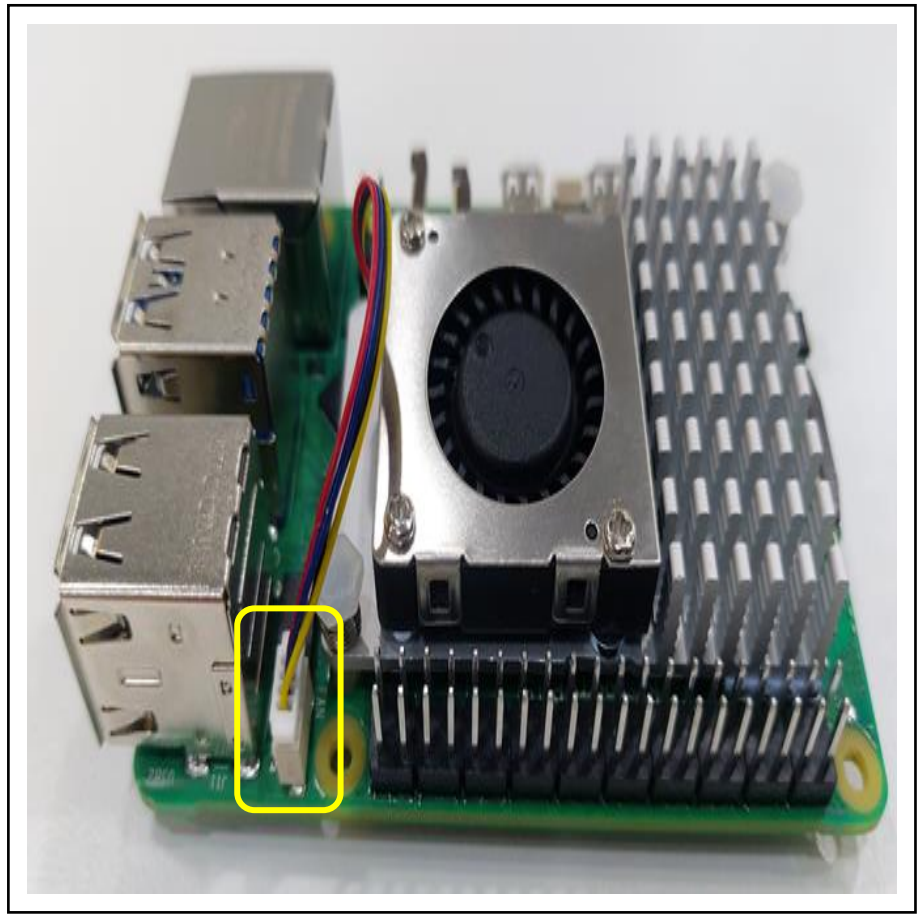
전기차 회로 조립

쿨러의 커넥터를 라즈베리파이에 결합해 주세요.





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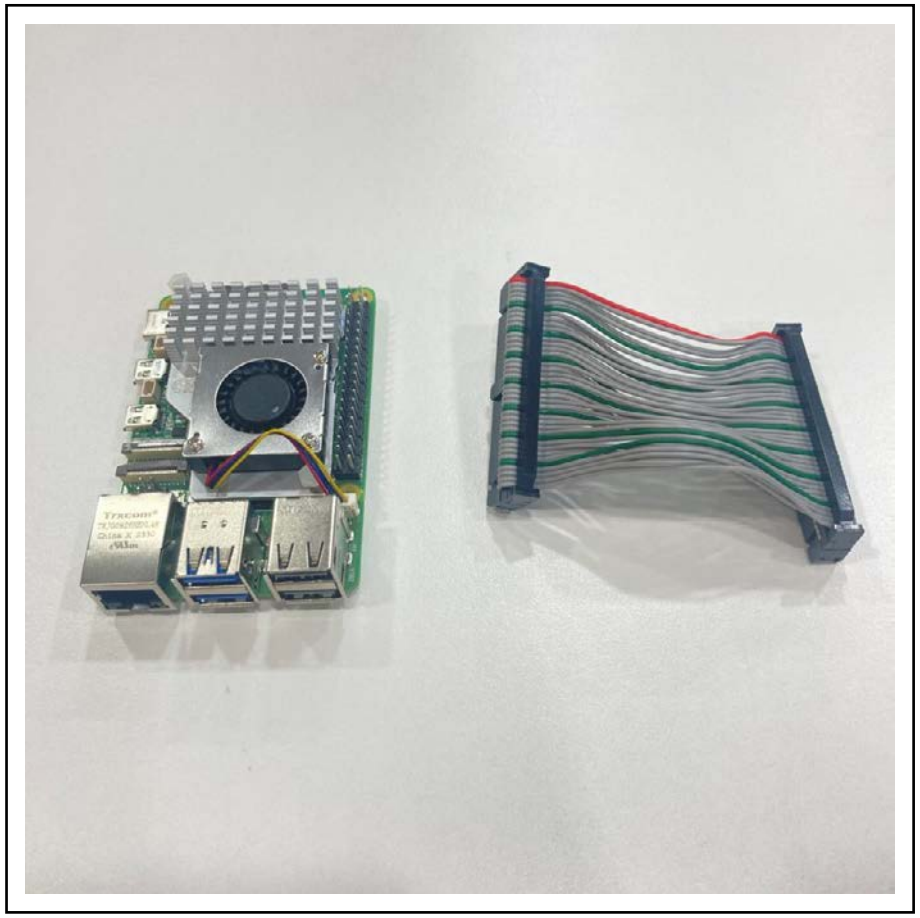
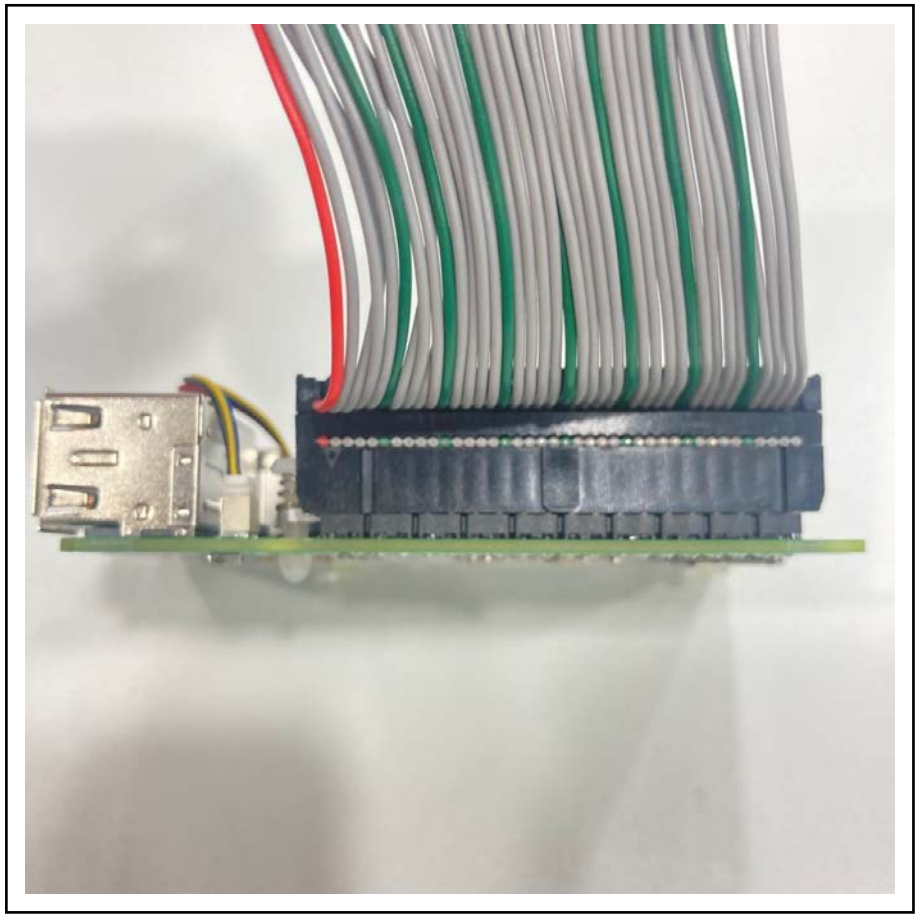
전기차 회로 조립

조립된 라즈베리파이에 IDC 커넥터를 결합해 주세요.

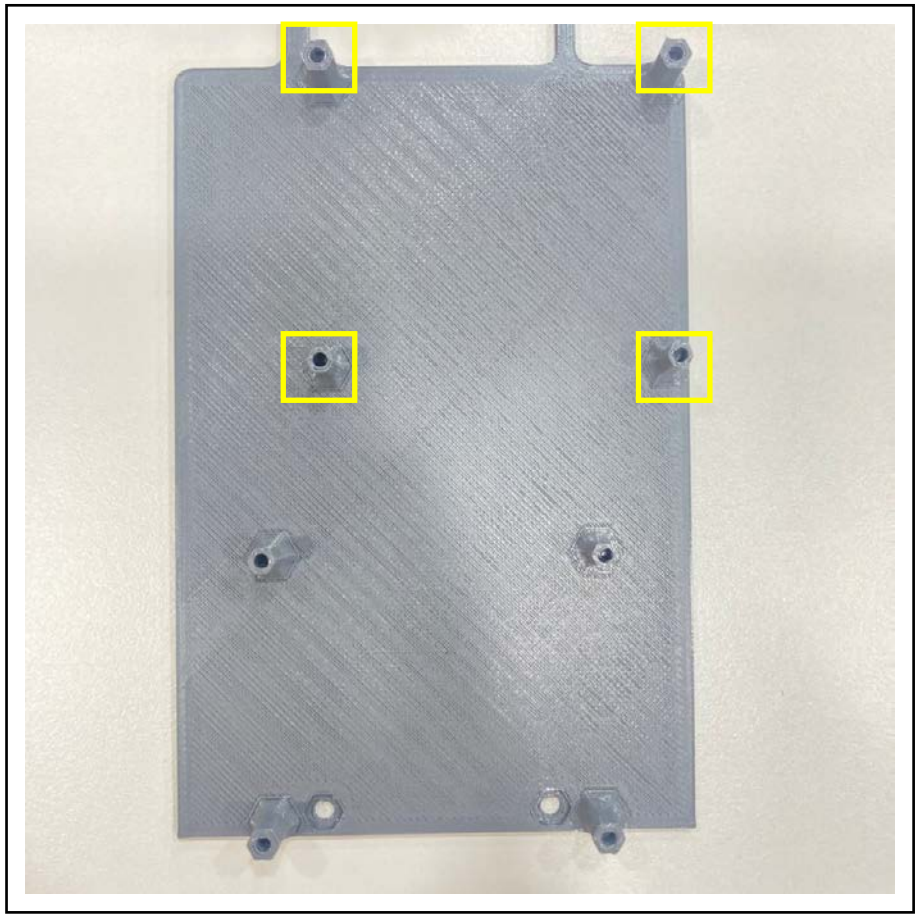


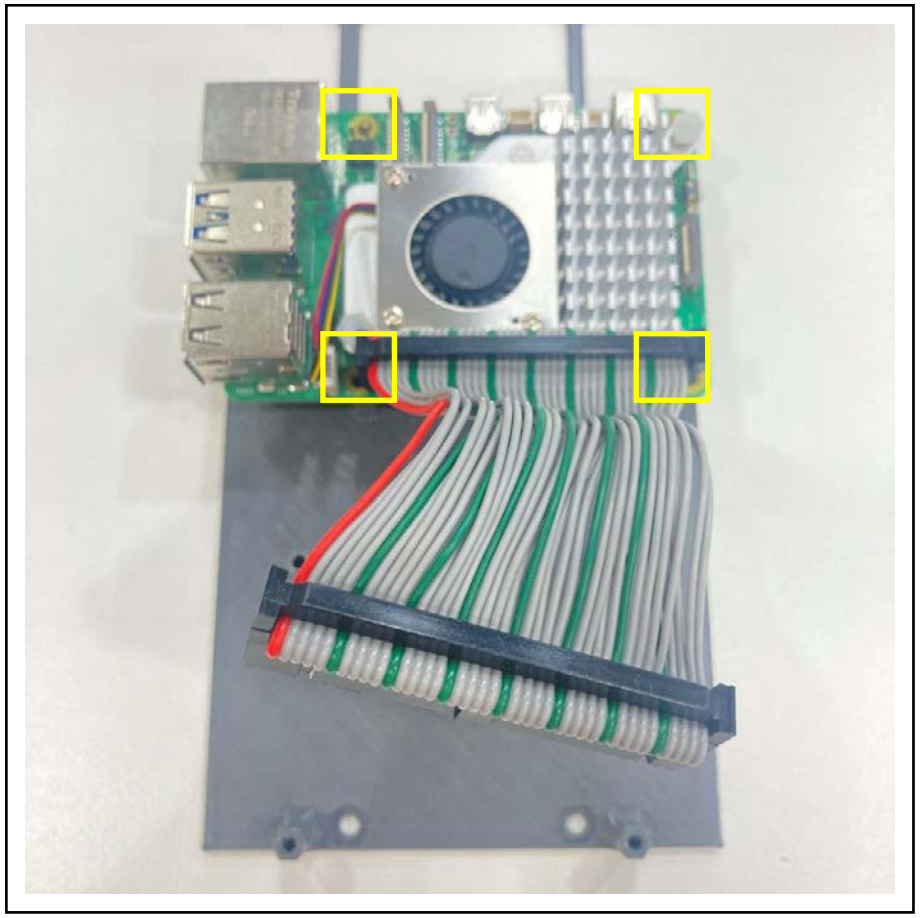


ONECLICK AI

전기차 회로 조립

표시된 부분에 라즈베리파이를 결합해 주세요.





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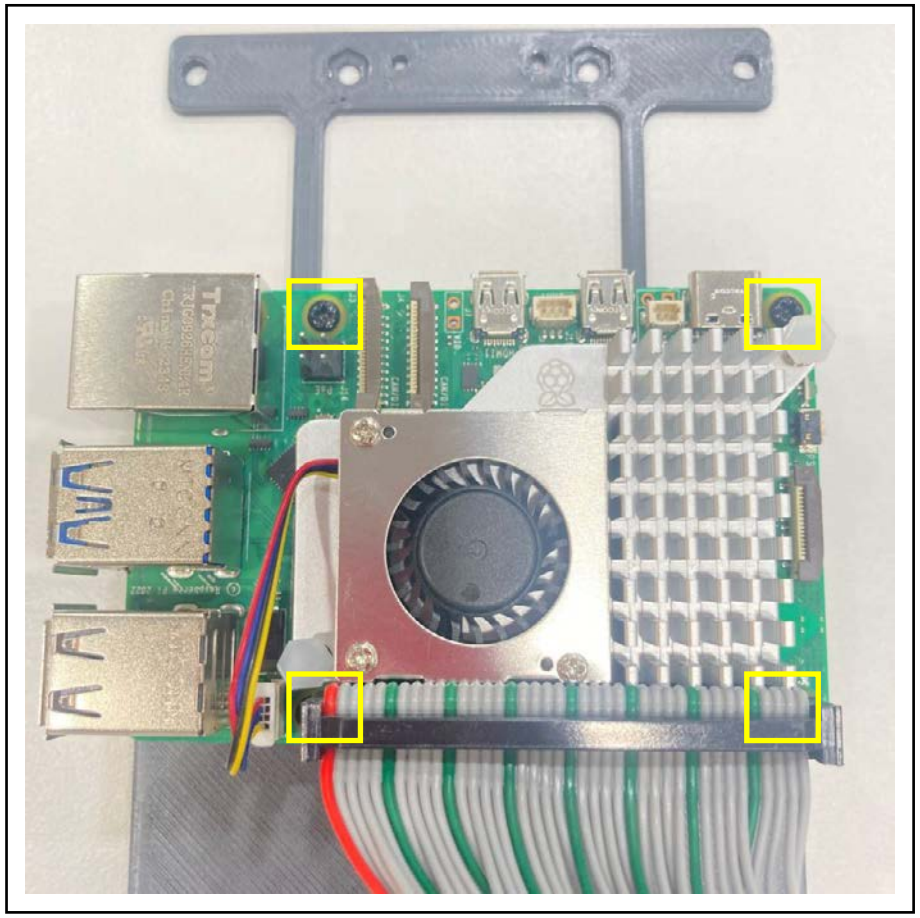
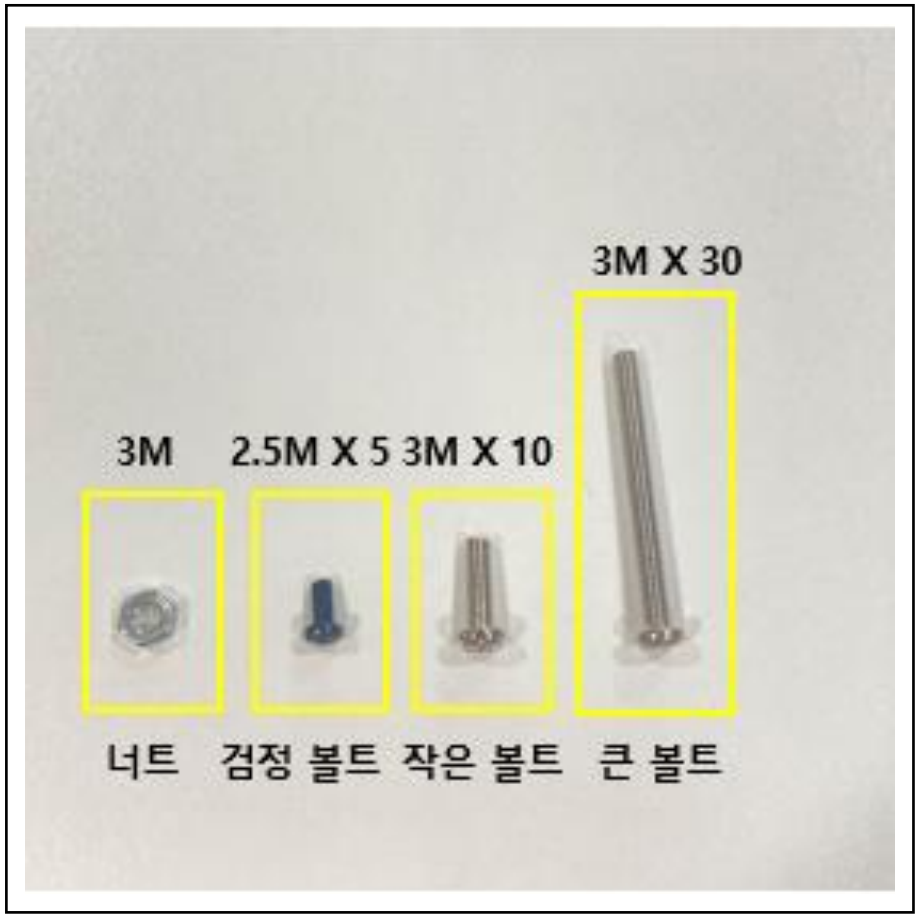
전기차 회로 조립

검정 볼트로 라즈베리파이를 결합해 주세요.





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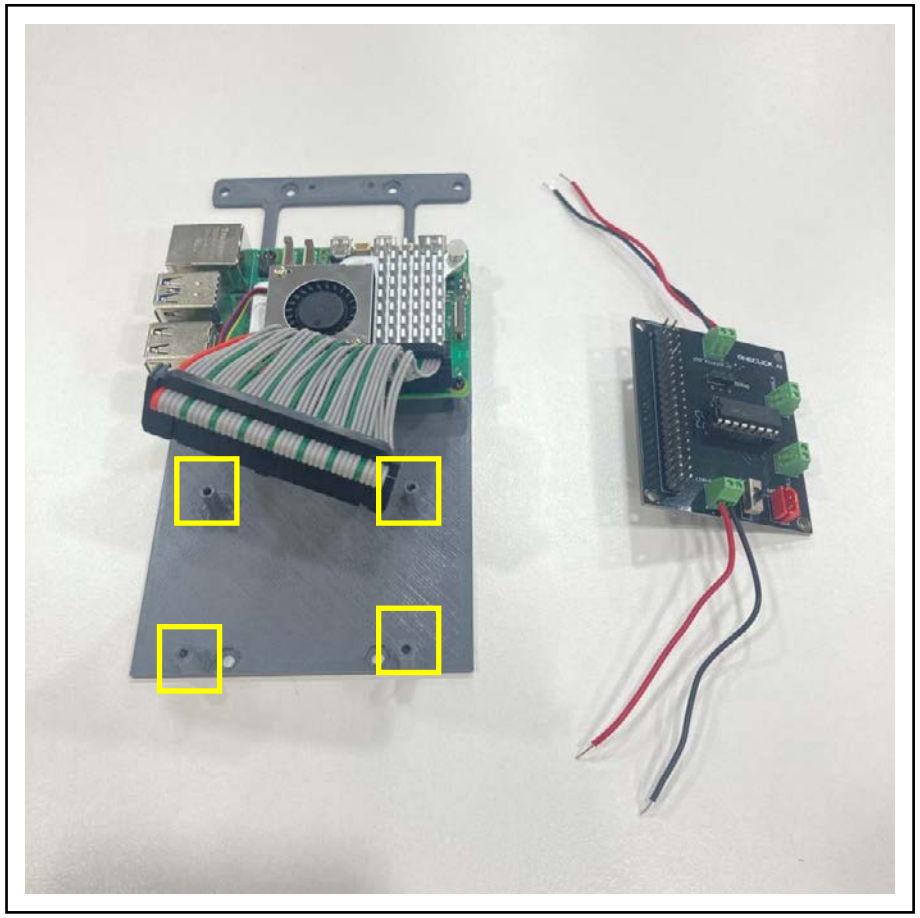
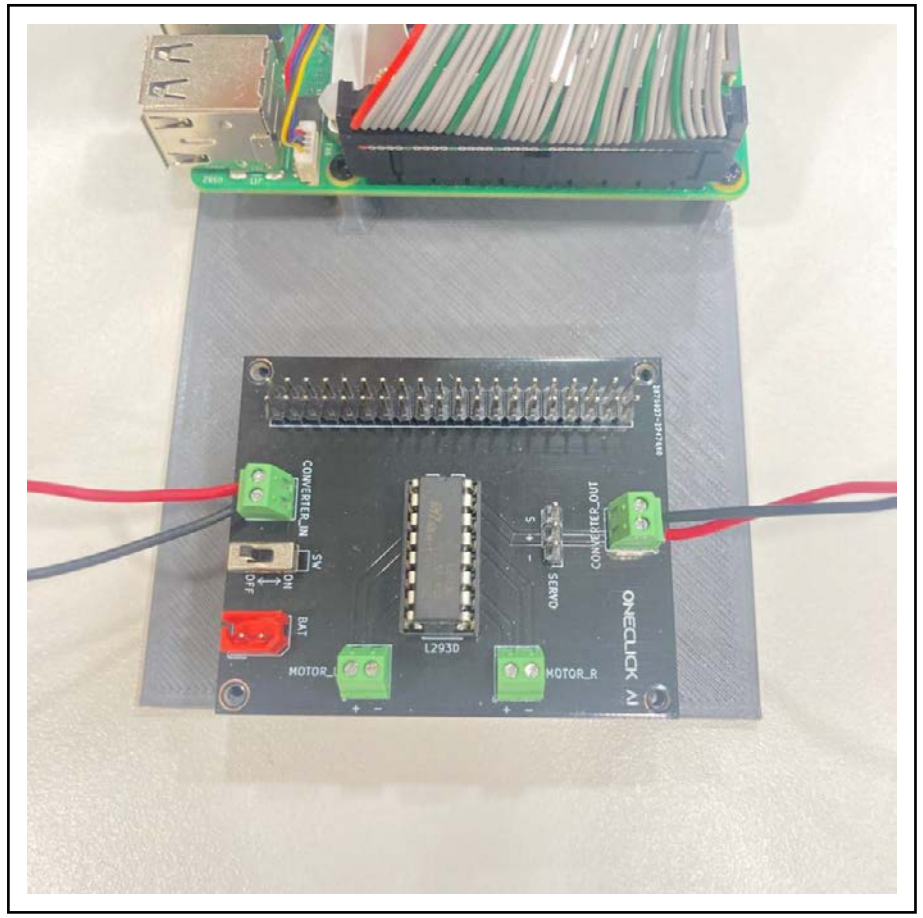
전기차 회로 조립

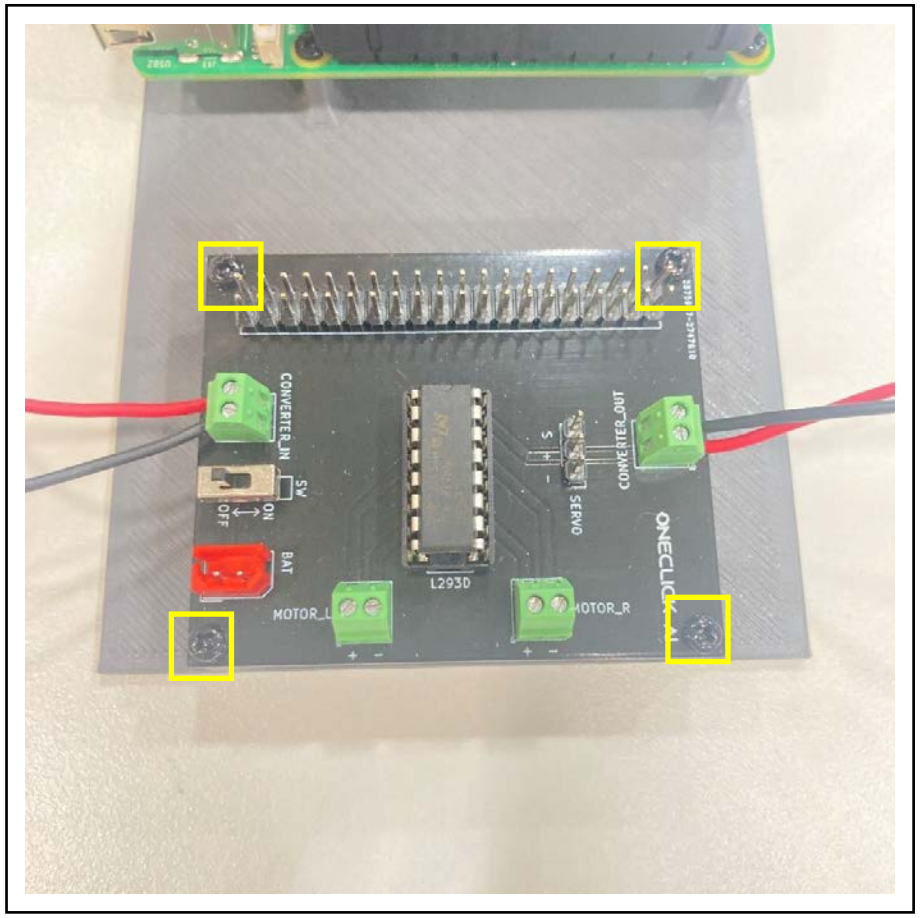
표시된 부분에 PCB를 결합해 주세요.

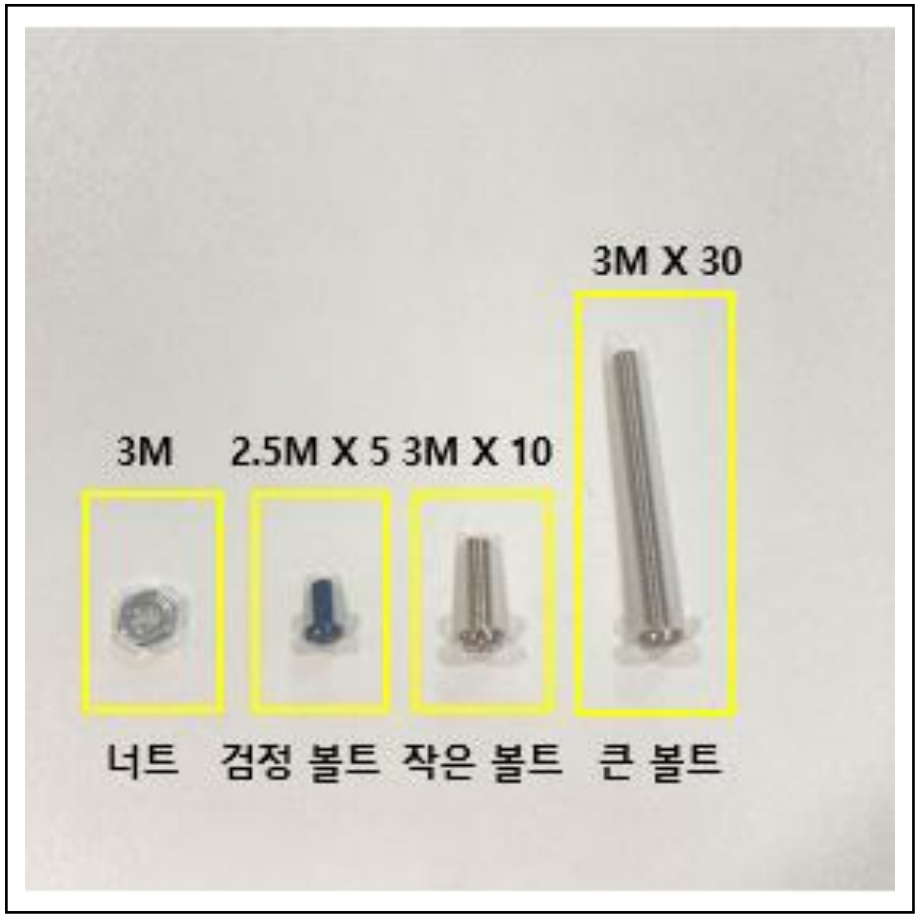




전기차 회로 조립

검정 볼트로 PCB를 결합해 주세요.

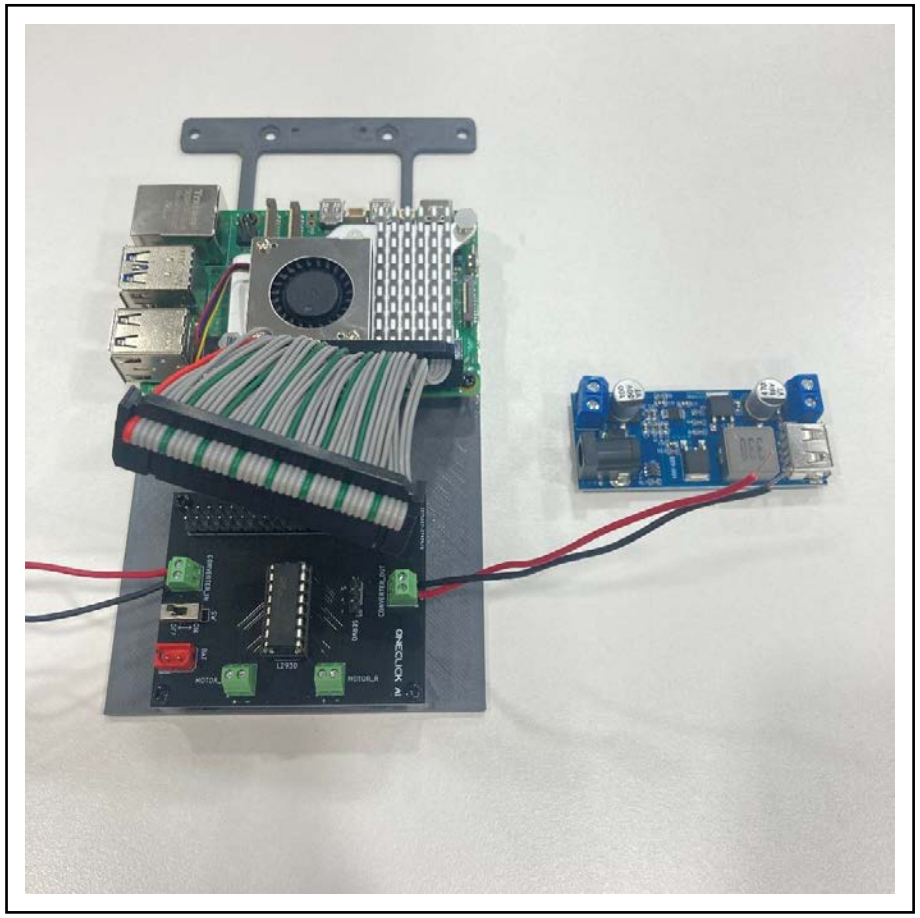


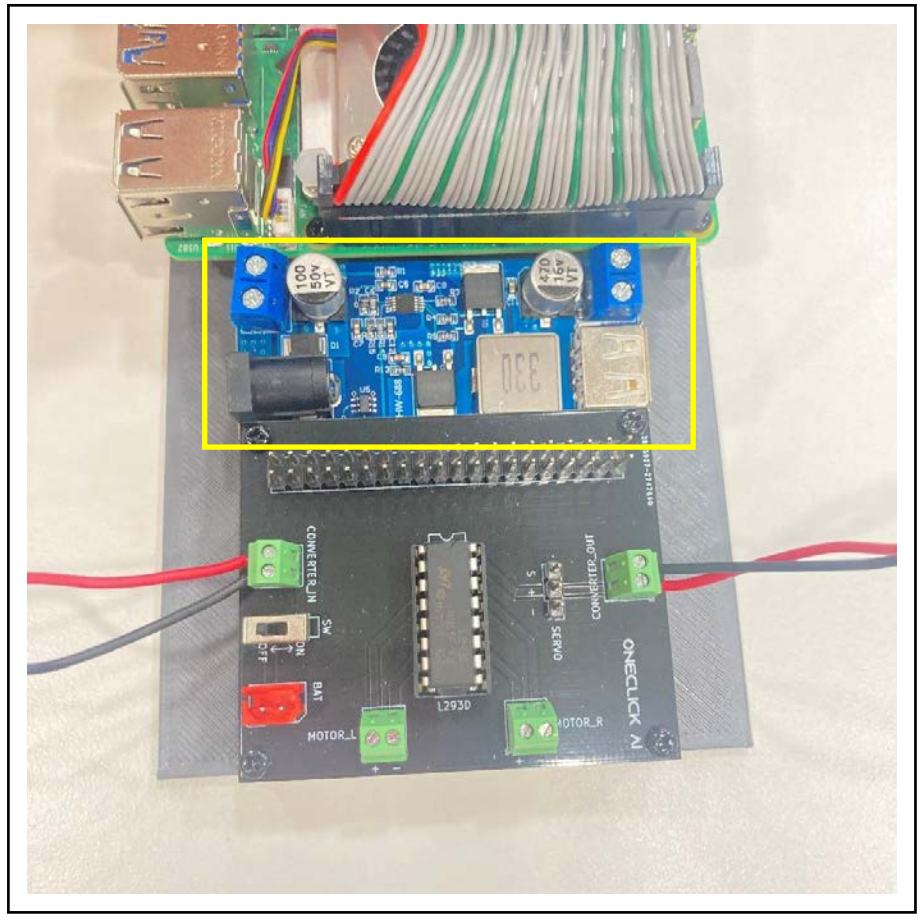


전기차 회로 조립

DC 컨버터를 두번째 사진처럼 배치해주세요.

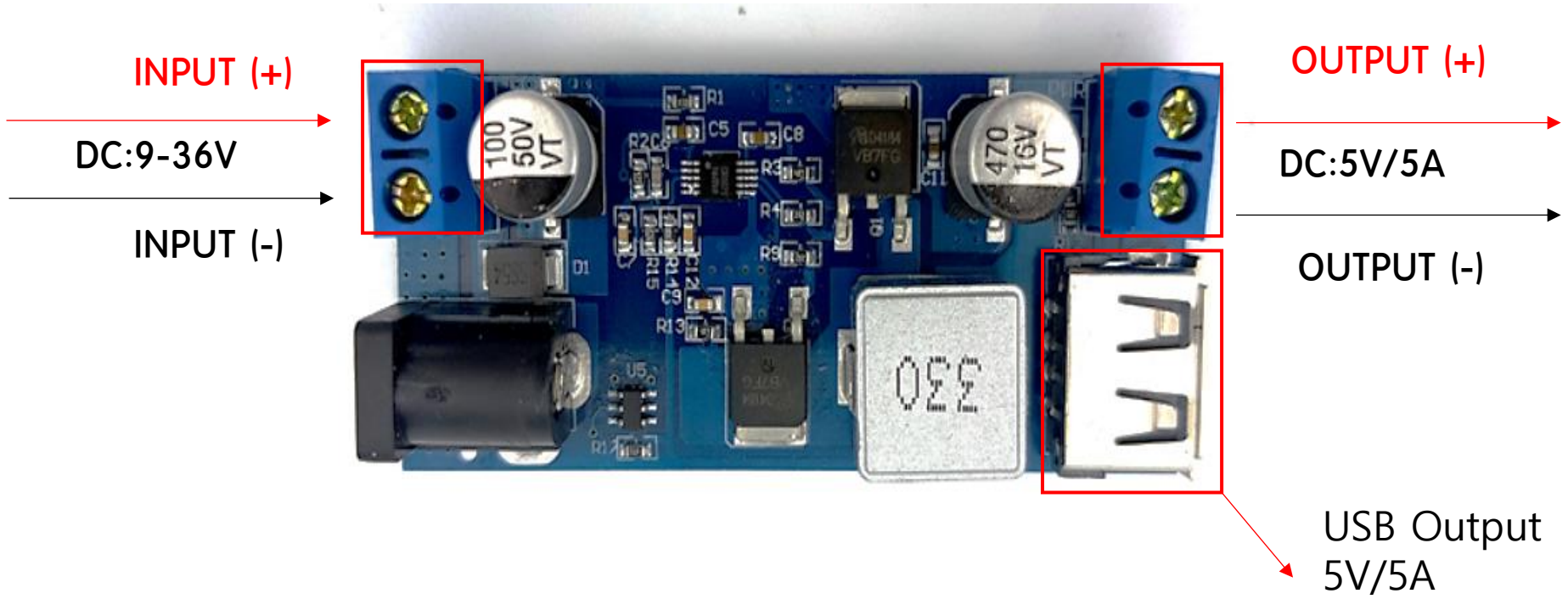
기둥 사이의 공간이 협소하여 배치하기가 어렵습니다.





전기차 회로 조립

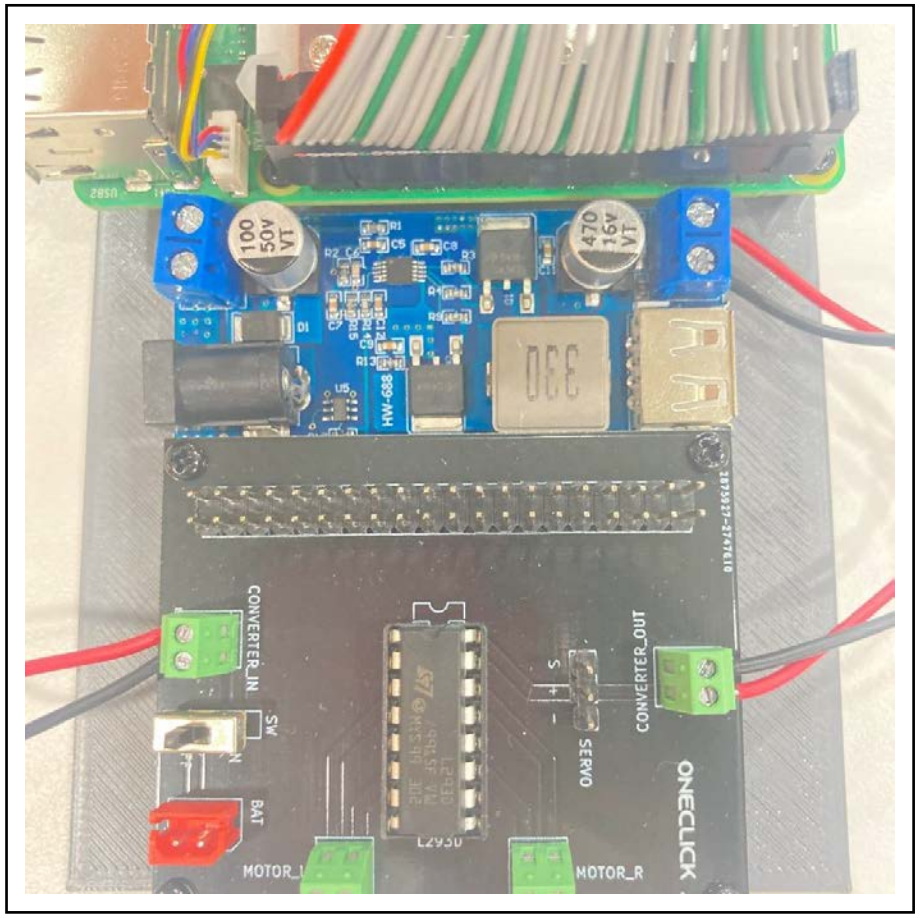
DC 컨버터

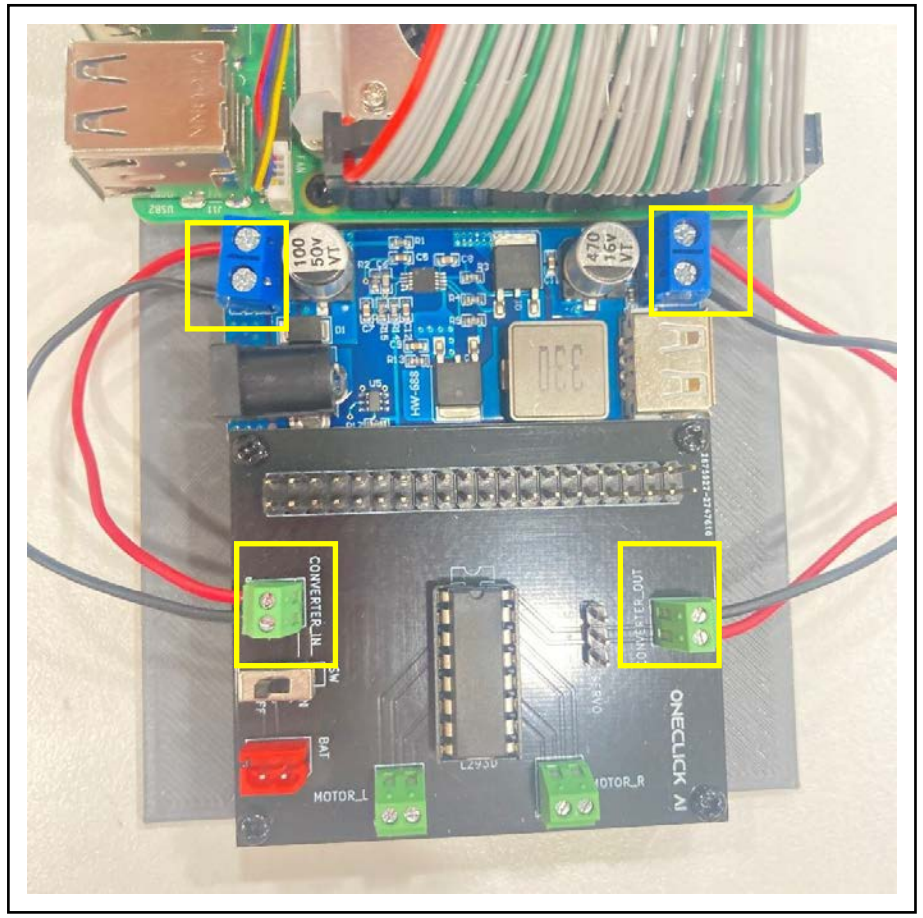


전기차 회로 조립

PCB 측 CONVERTER +, - 선을 DC 컨버터 +,-에 맞게 결합해 주세요.

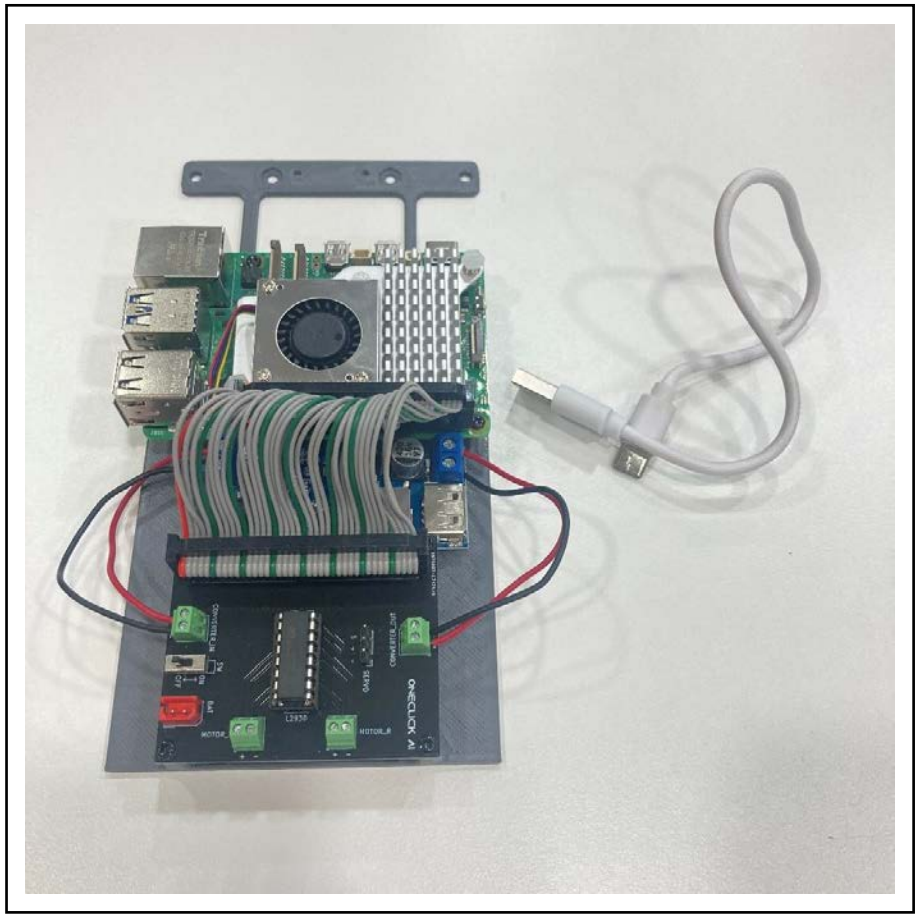
반드시 DC 컨버터의 INPUT, OUTPUT의 위치 확인 후 결합해 주세요.

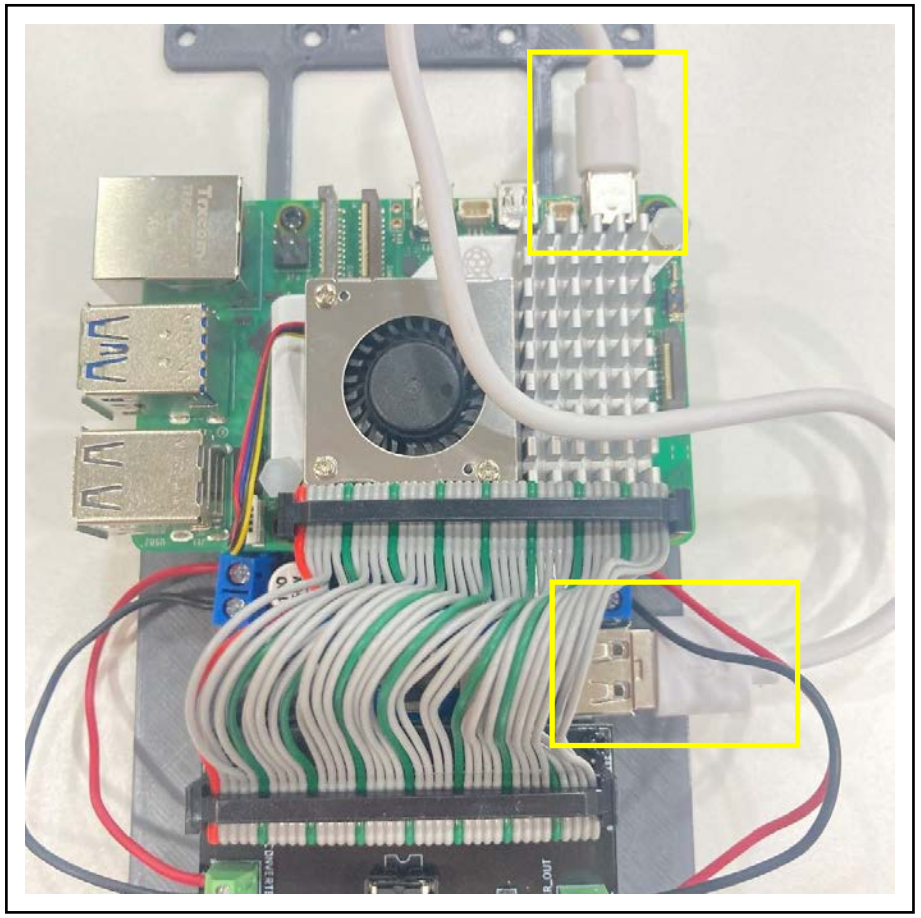




전기차 회로 조립

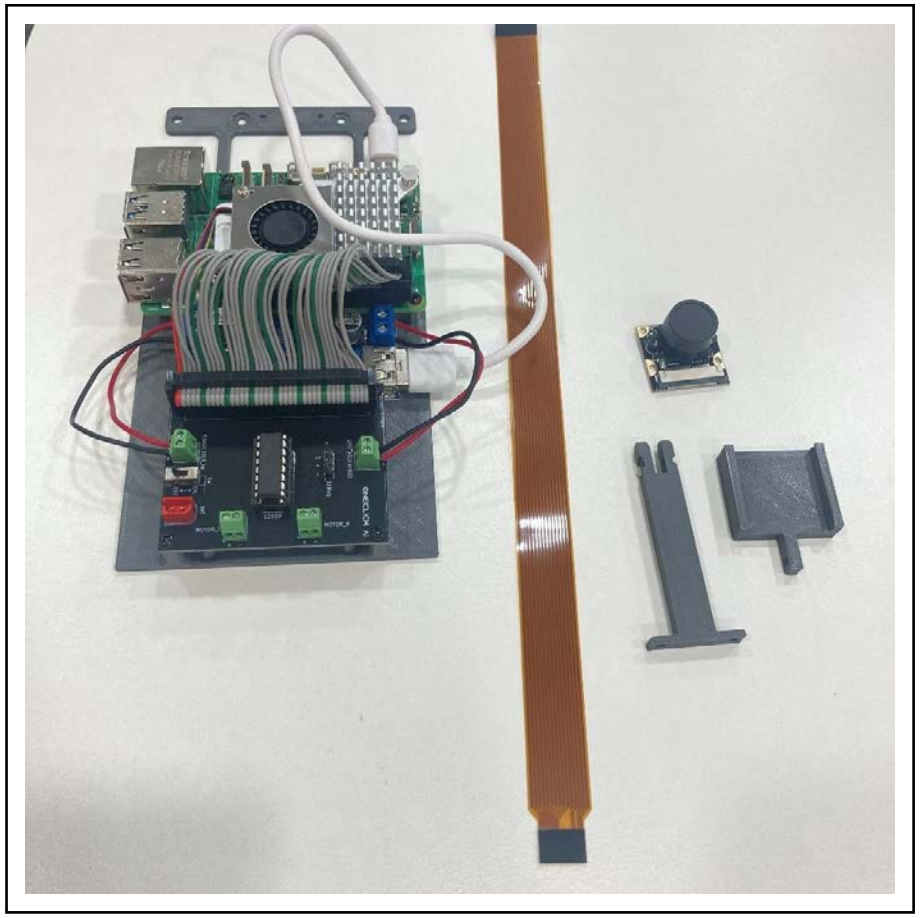
USB A TO C 케이블의 USB 단자는 DC 컨버터의 USB 단자에 결합해 주세요.
USB A TO C 케이블의 C타입 단자는 라즈베리파이 C타입 커넥터에 결합해 주세요.

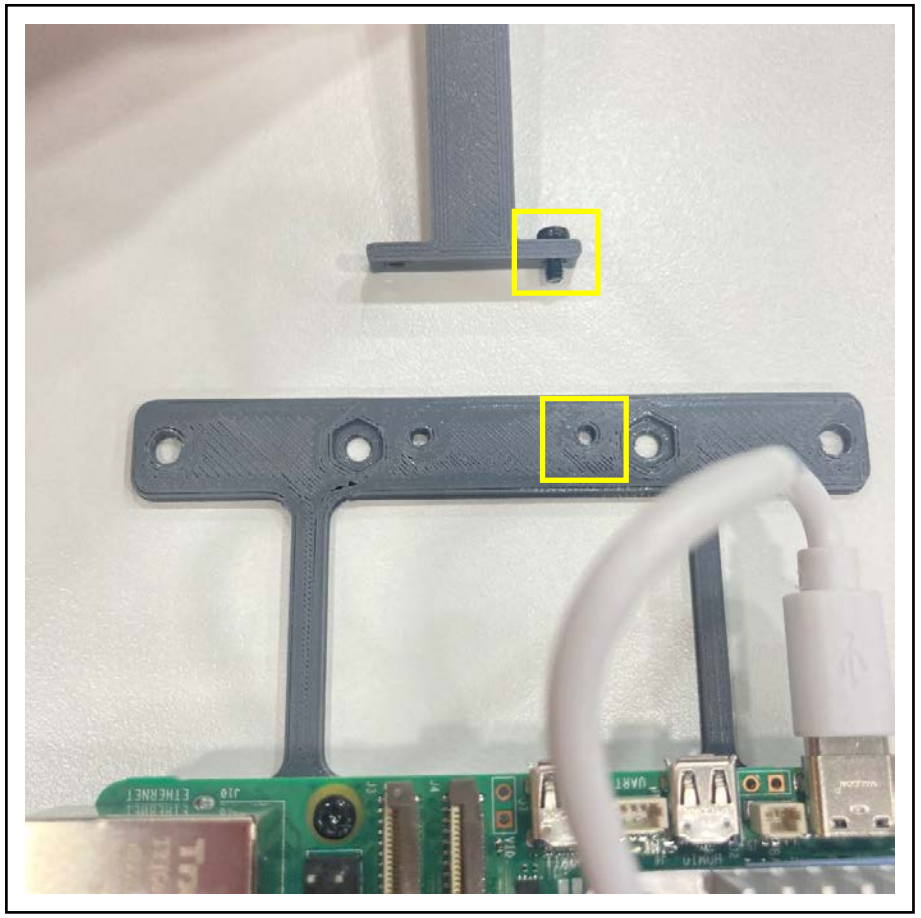




전기차 회로 조립

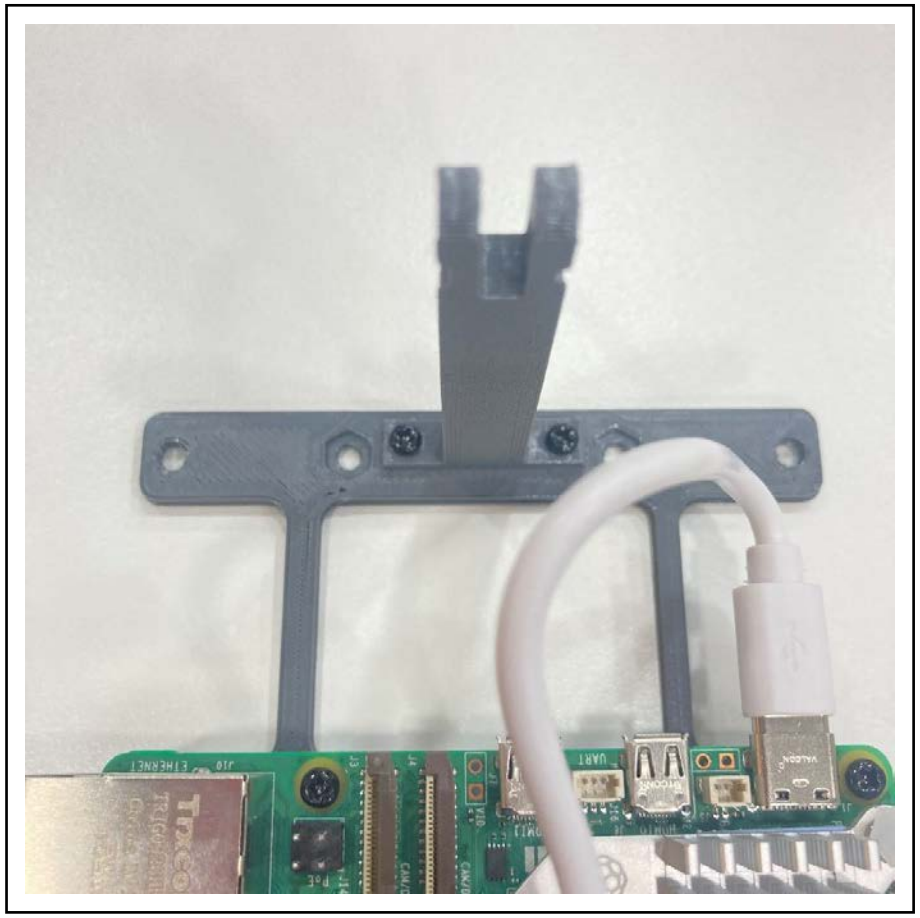
카메라 거치대를 검정 볼트로 결합해 주세요.

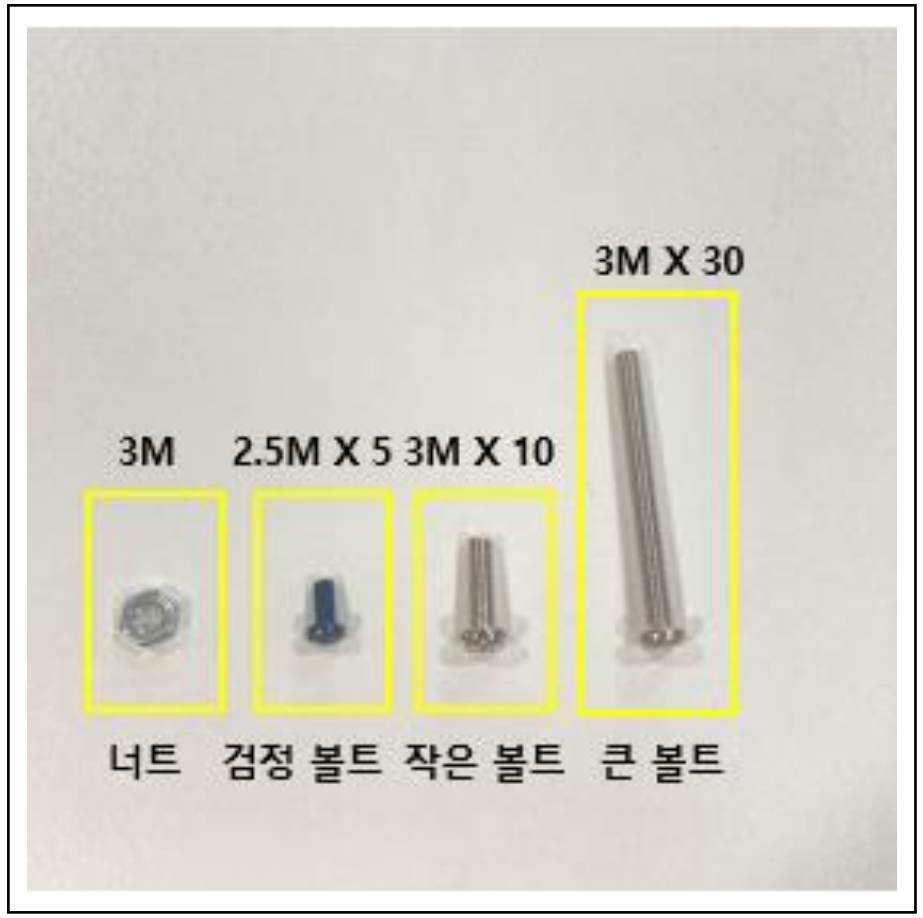




전기차 회로 조립

반대쪽도 동일하게 검정 볼트로 결합해 주세요.





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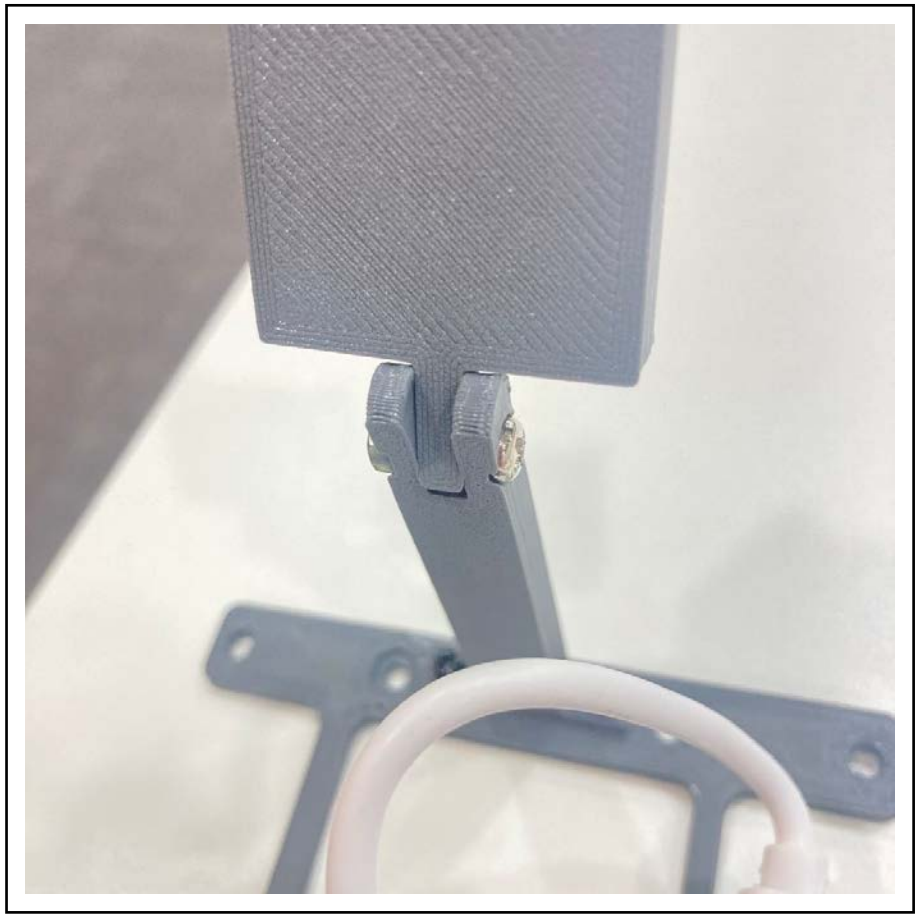
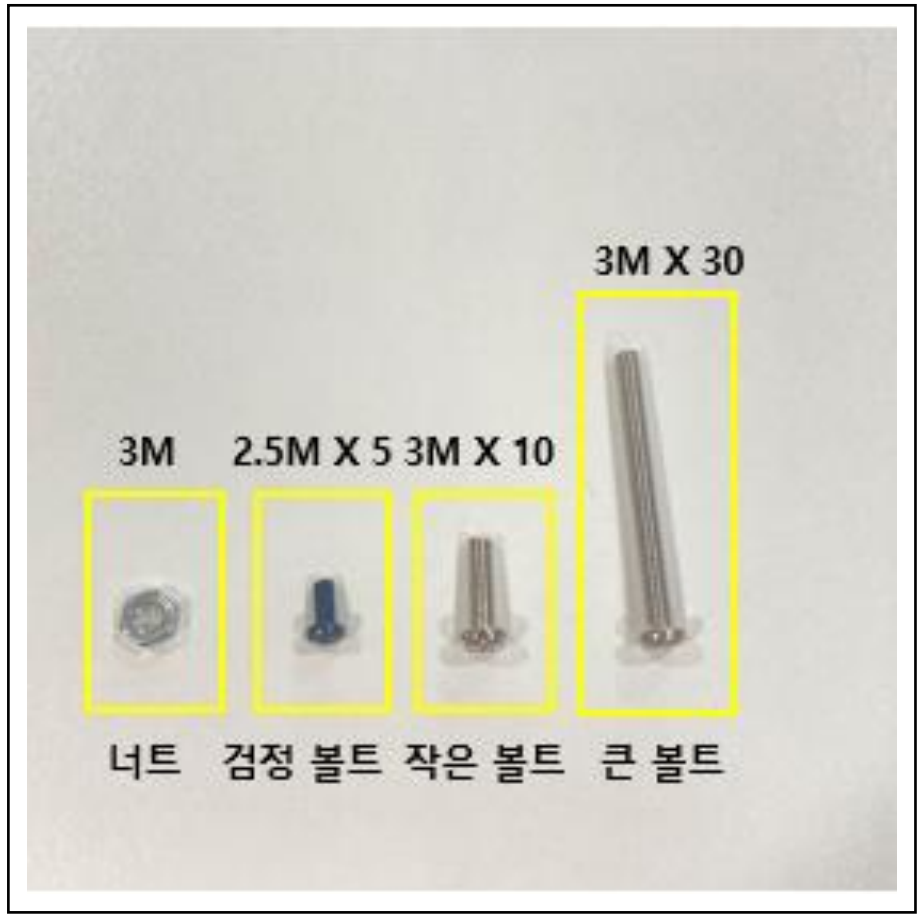
전기차 회로 조립

카메라 거치대하고 카메라 홀더를 작은 볼트, 너트로 결합해 주세요.





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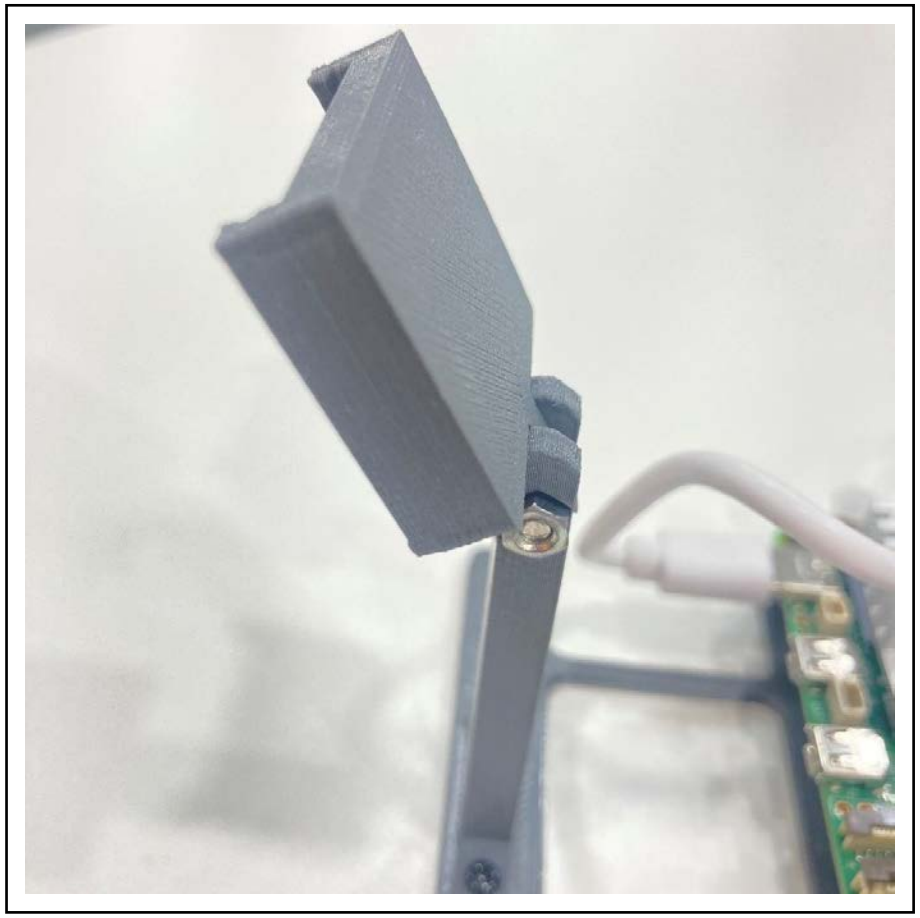
전기차 회로 조립

작은 볼트, 너트로 고정하기전에 본인이 원하는 카메라 각도를 맞춰주세요.





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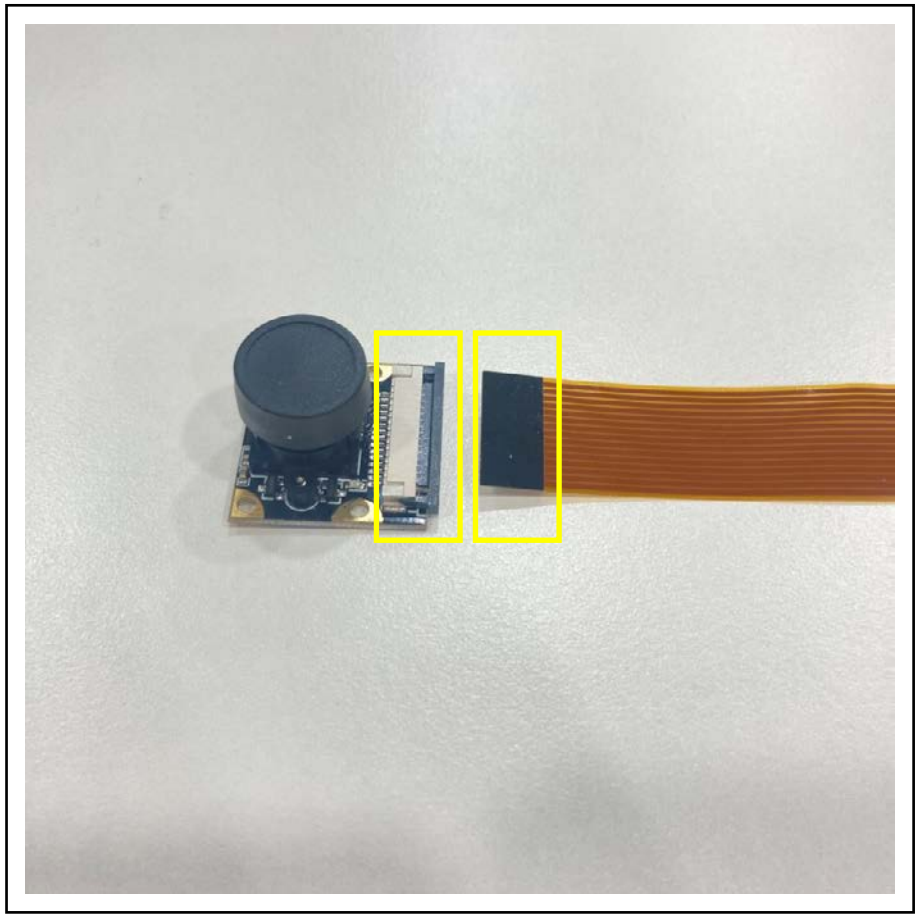
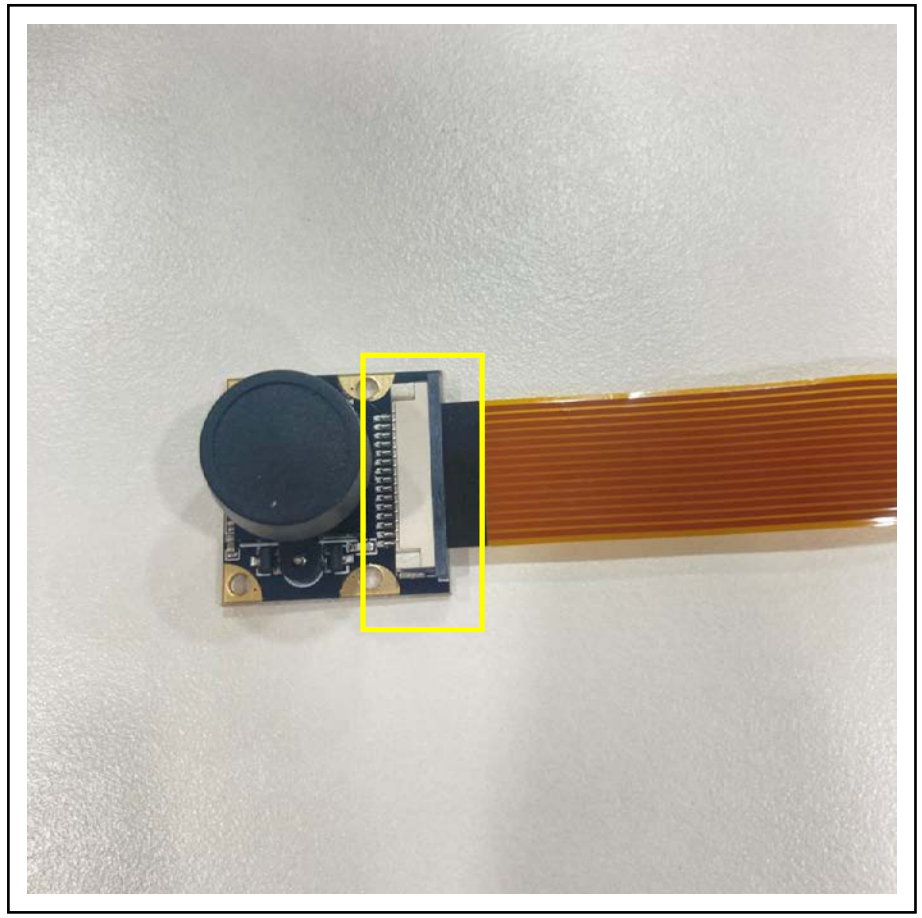
전기차 회로 조립

카메라 모듈의 FPC 커넥터의 탭을 사진과 같이 열어준 다음에 FPC 커넥터를 사진과 같은 방향으로 결합한 다음에 탭을 닫아주세요.





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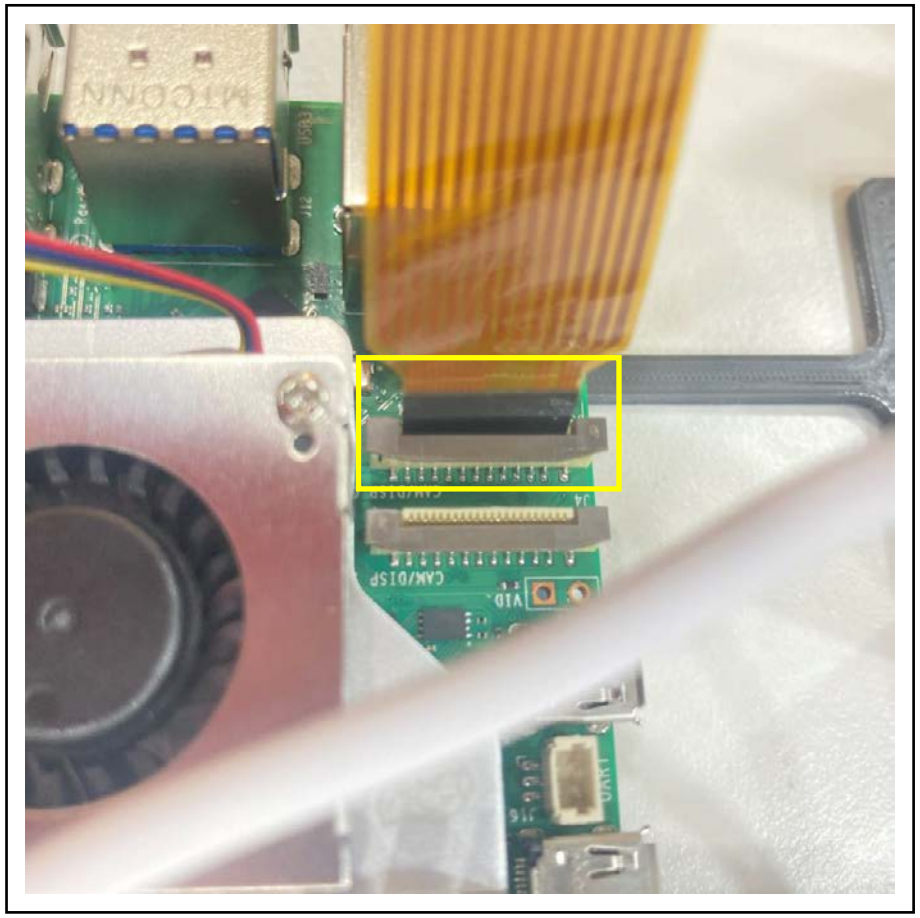
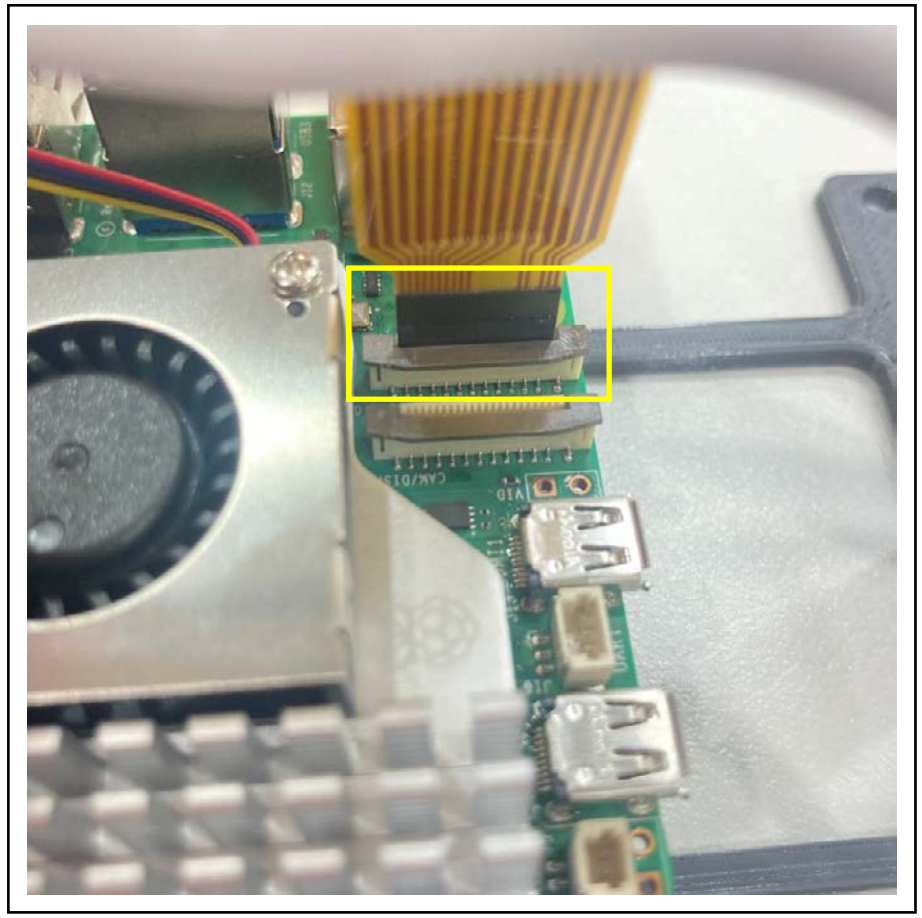
전기차 회로 조립

라즈베리파이도 동일하게 FPC 커넥터의 탭을 열어준 다음에 FPC 커넥터를 사진과 같은 방향으로 결합한 다음에 탭을 닫아주세요.





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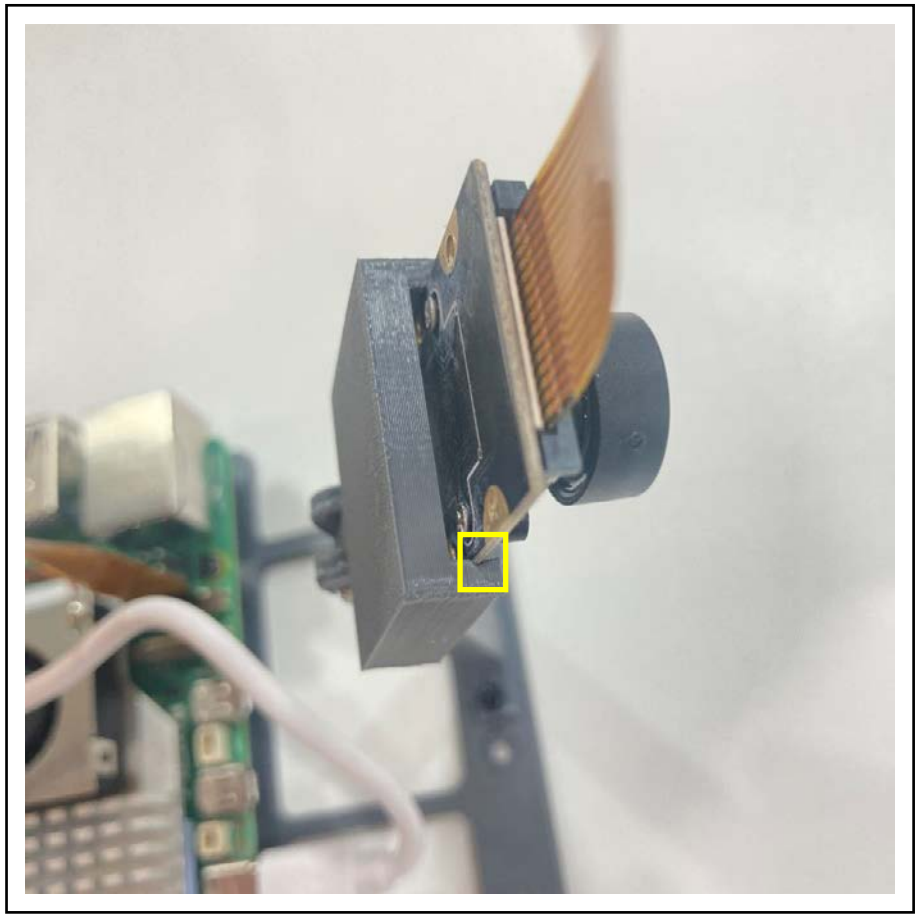
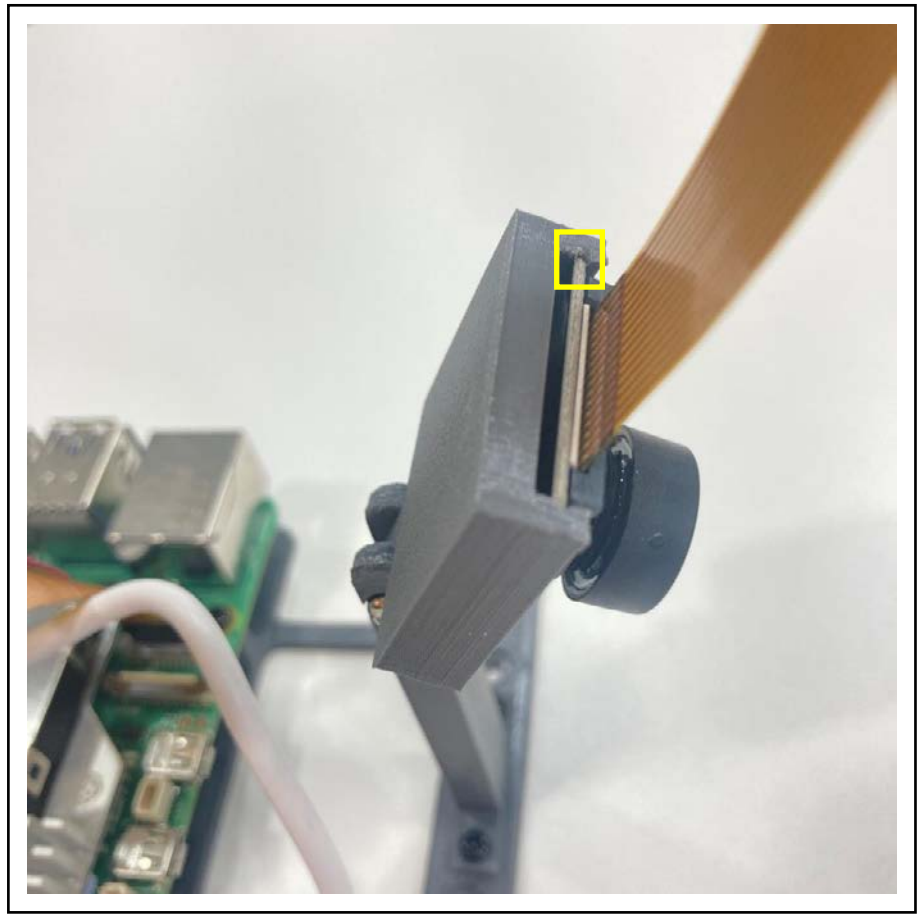
전기차 회로 조립

카메라모듈을 카메라 홀더 홈에 맞춰 결합해주세요.





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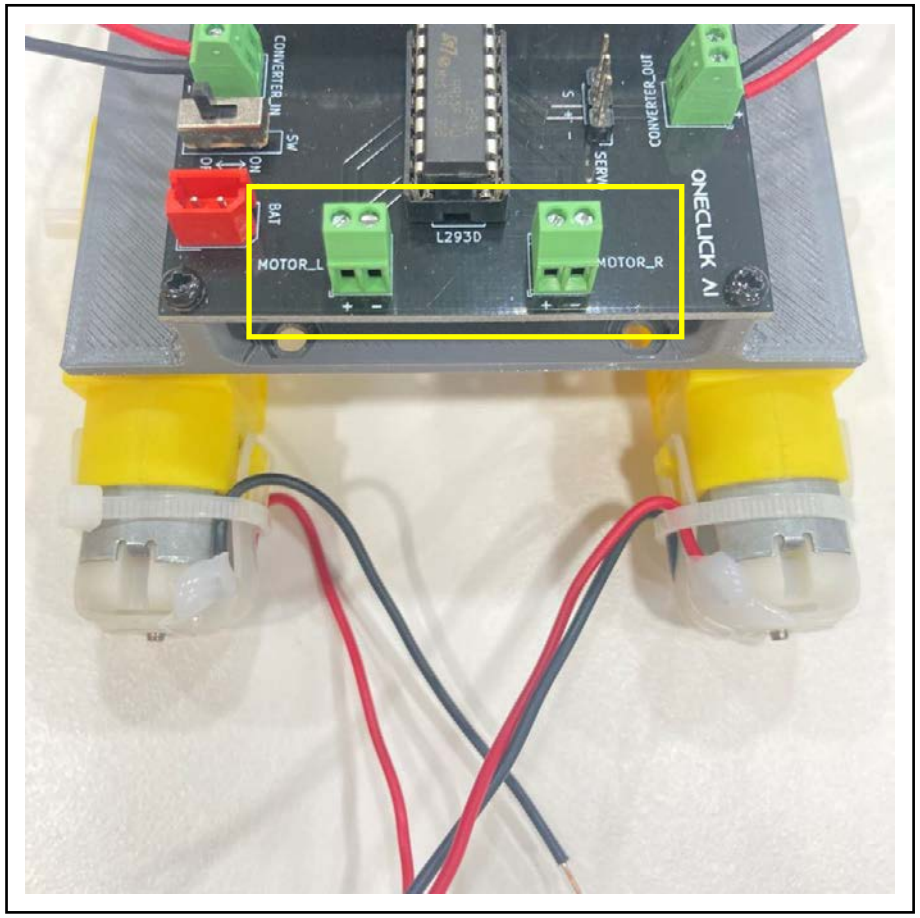
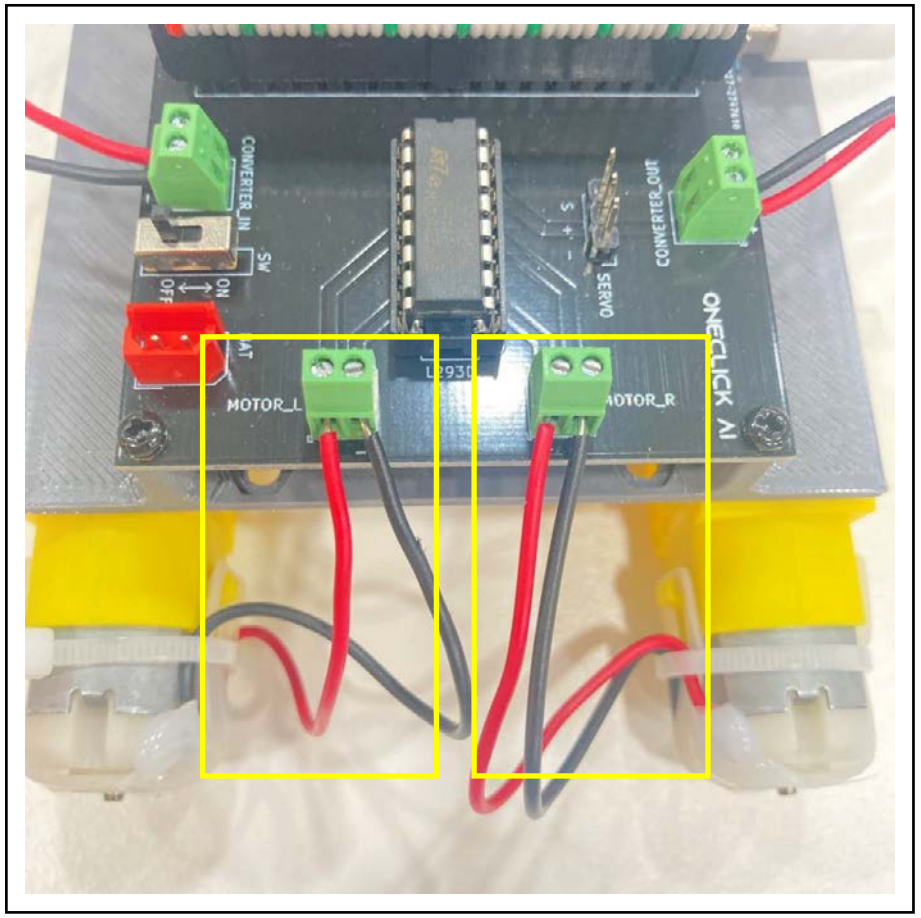
전기차 회로 조립

다시 PCB로 돌아가서 모터 전원선을 PCB 터미널 단자에 표시된 +,- 에 맞게 결합해 주세요.

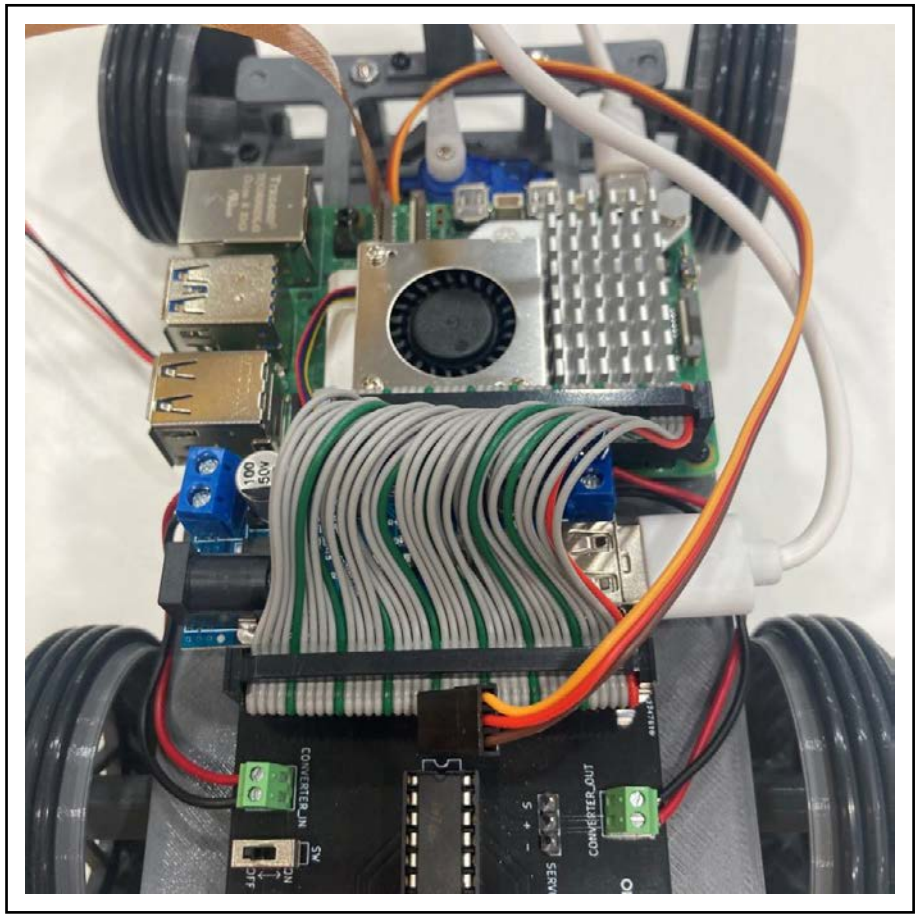
모터 테스트할 때 모터 전진, 후진 방향에 다를 경우 해당 모터의 전원선 +,- 단자를 반대로 결합해 주세요.

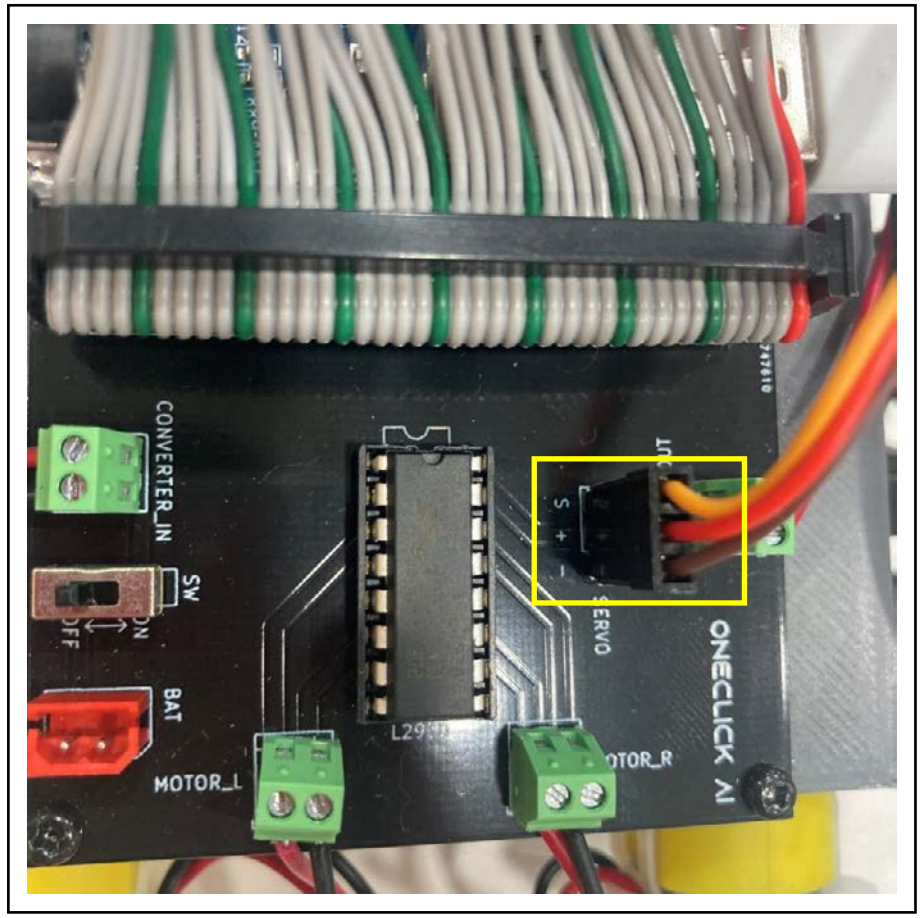




전기차 회로 조립

서보모터 선을 PCB S(주황), +(빨강), -(갈색) 선의 색에 맞게 결합해 주세요.

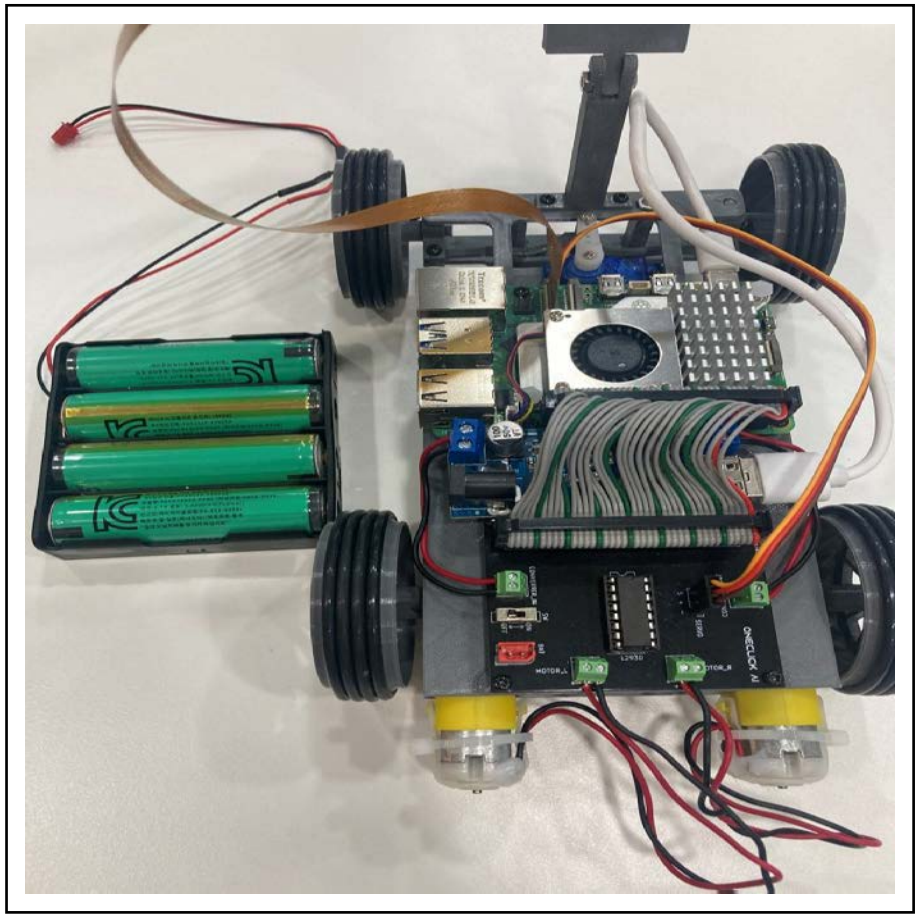


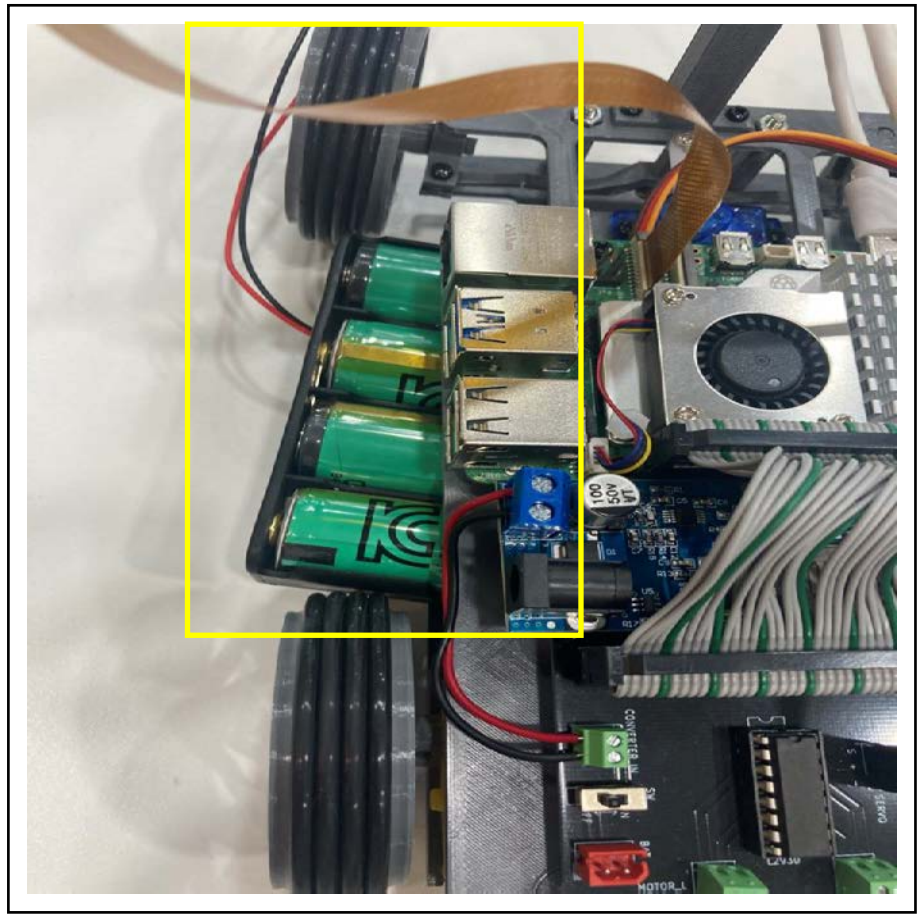


전기차 회로 조립

배터리 홀더를 사진과 같은 위치로 배치해 주세요.

배터리 홀더가 잘 안들어가면 앞 바퀴 방향을 돌려 공간을 만들어 주세요.

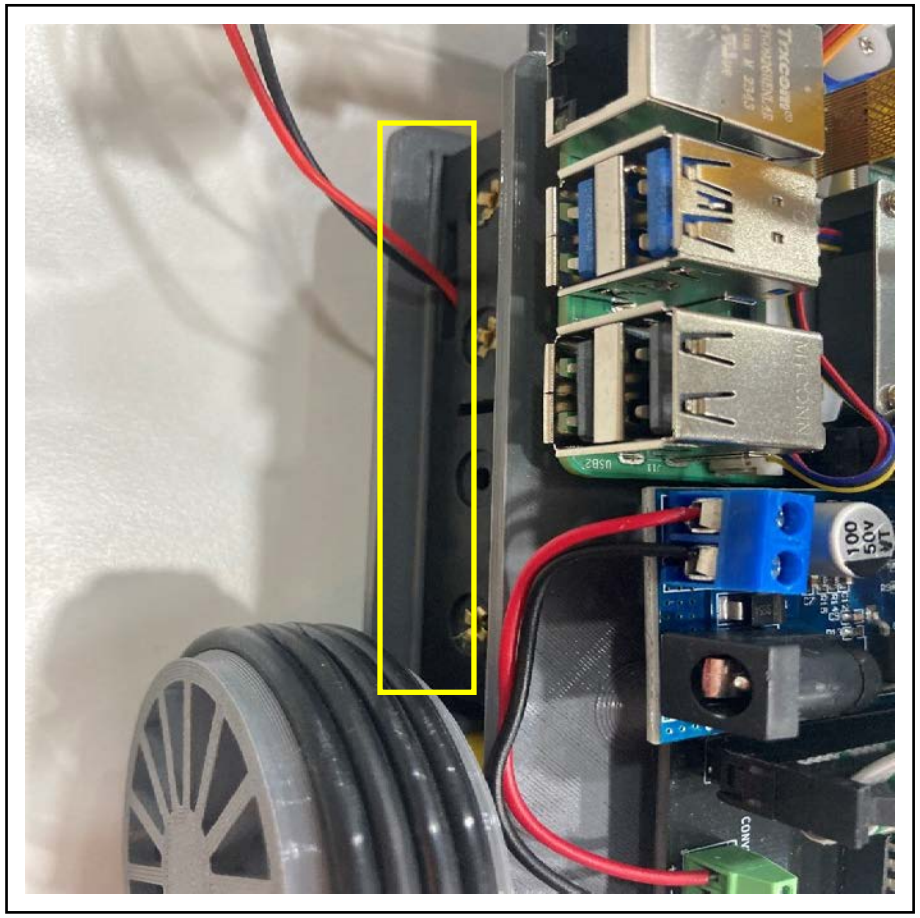


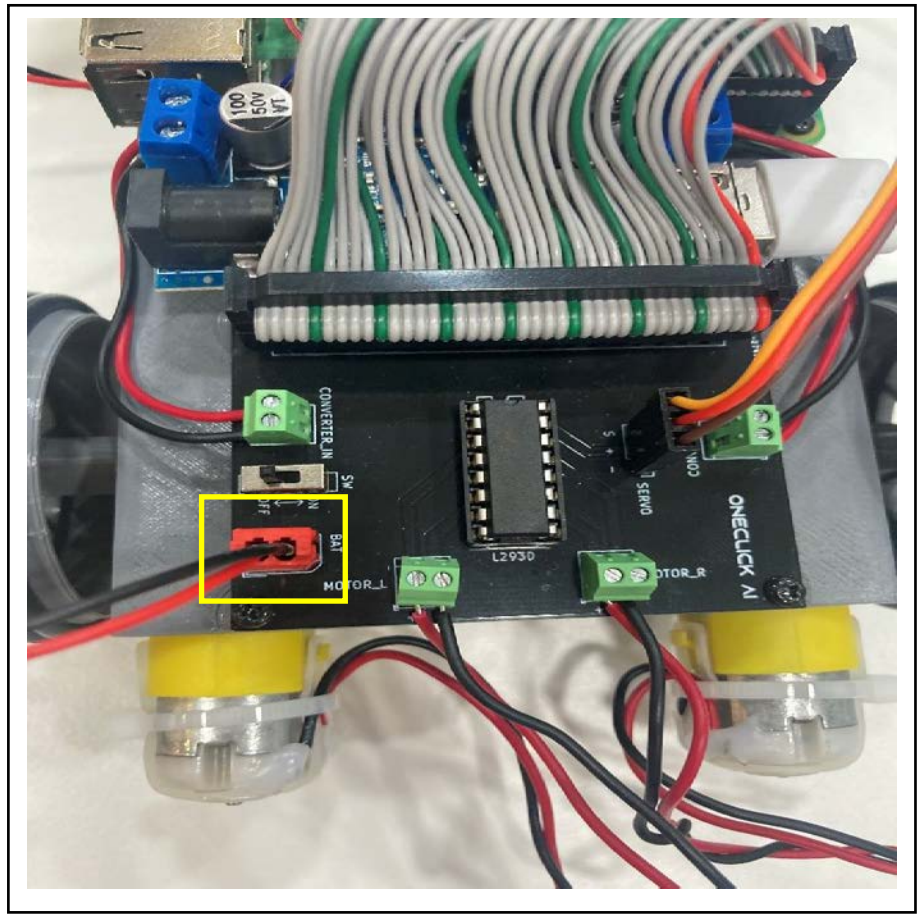


전기차 회로 조립

첫번째 사진처럼 배터리 홀더가 홈에 고정이 되면 배터리 전원선을 PCB 결합해 주세요.

배터리 전원선을 PCB 방향하고 동일하게 결합해 주세요. 그리고 전원을 켜기전에 마지막으로 회로 검사를 해주세요.





Thank you

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