assembly of steering
wear safety glasses
expect some sanding and gluing

Don’t force parts together or they may break. If they do break, then super glue can be used for repair. 3D printed parts may be rough and require sanding so that they fit together ... this is to be expected.
most of the holes in the 3D printed parts need cleaning out

1/8-inch diameter drill bit works well in most cases
parts for mounting the steering servo

parts:
- 4-40 screws ¾-in or 7/8-in long (2)
- 4-40 screws ½-in long (2)
- 4-40 nuts (4)
- standard servo
- servo mounting bracket
Mount the servo to the bracket and chassis.

You really only need two screws for servo to bracket and for bracket to chassis.

Turn the servo so that the output shaft lines up with the axis of the chassis.
cut off three sides on the servo horn

original servo horn

this is the only part you use
make outer hole on servo horn larger

(a 3/32-inch diameter drill bit works well)
attach servo horn to steering rod

(a 2mm Allen wrench is needed)

additional parts:
- 2-56 Allen screws ½-in long (2)
- 2-56 nut
- tapered spacing washers (2)
- steering rod
- servo horn
attach steering rod to cross arm

this bolt screws into the hole

do not drill out this hole! you will be sad if you do
use a 2-mm Allen wrench to screw steering rod onto cross arm
assemble steering

additional parts:
- 4-40 screws 1 ½-in long (4)
- 4-40 screws ¾-in or 7/8-in long (4)
- 4-40 screws ½-in long (2)
- 4-40 nuts (8)
- 4-40 nyloc nuts (4)
- 16 washers
- 3D printed steering knuckle
- 3D printed bushing
- 3D printed steering bracket
- 3D printed cross arm
- 3D printed wheel hex spacers

already attached
assemble wheels


nyloc nut ... tighten until it starts to contact but wheel still spins freely

get this nut very tight against the blue hex
attach wheels to steering bracket

you may need to sand some off the end of these bushings to make them fit
attach cross arm to wheel assembly

ORDER: ¾-in or 7/8-in screw – washer – red steering arm – 2 washers – red tie rod – washer – nyloc nut
attach assembly to chassis

use \( \frac{3}{4} \)-in or \( \frac{7}{8} \)-in screws on front (put these in first), and \( \frac{1}{2} \)-in screws in back
completed steering assembly!