

2026 FRC Kit of Parts – SOLIDWORKS

This is the first revision (V1) of the 2026 FRC Kit of Parts.

The parts are organized in folders based on the totes they come from. The Gray Tote and Black Tote each contain a PDF of the included parts provided to us by *FIRST*. Note that some of the list items are not included for lack of necessity in a final CAD assembly. There are three independent folders for the Drive Base Configurations, each containing a different frame configuration and the parts needed to assemble it. Note that this year's Drive Base Configurations are **slightly smaller** than previous season's frames, despite using the same part numbers. Some of the models are simplified to follow only the basic geometry. Part materials were assigned based on manufacturer specifications or industry standards. Some parts were modeled from scratch based on drawings provided by the manufacturer. The included models are available in SOLIDWORKS 2025, 2026, STEP, and 3DXML file format.

The KitBot mates have been rebuilt and the fly wheel and drive base subassemblies designed as flexible subassemblies to support kinematic movement. The included working mates are available in SOLIDWORKS 2025 and 2026 while the fixed version of the assemblies are available in STEP and 3DXML.

The Field model is available in SOLIDWORKS 2025, 2026, STEP, and 3DXML file format. The SOLIDWORKS files have four configurations: a default full fidelity configuration with all relevant components, a configuration without game pieces, a configuration of just the outer perimeter, and lastly a configuration of the center game elements. STEP and 3DXML only have the full fidelity configuration.

The Visualize Field Renderings folder includes different viewpoints for teams to visualize the playing Field, all produced by SOLIDWORKS Visualize. Short animations and renders are available to provide teams with a better understanding of the view from different points on the Field. A GLB file is provided that allows you to look at the Field and rotate it around. Simply load it into an online GLB viewer to use. This approach is recommended for mobile devices.

There is an additional optional folder of Field renderings called Field360View that include an Open.html file, which allows you to interactively view a 360 rendering of the full fidelity Field without using SOLIDWORKS. This file must be opened on a PC though due to its size.

To view this past summer's FRC Training Workshop, please visit the links here on our [Chief Delphi post](#).

For tutorials, please visit <https://www.solidworks.com/support/student>.