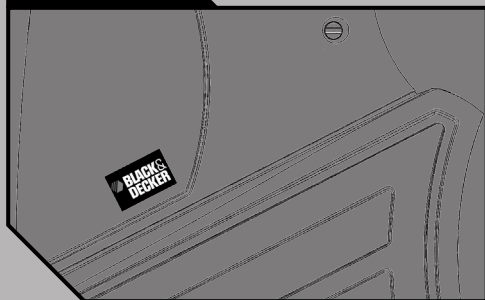


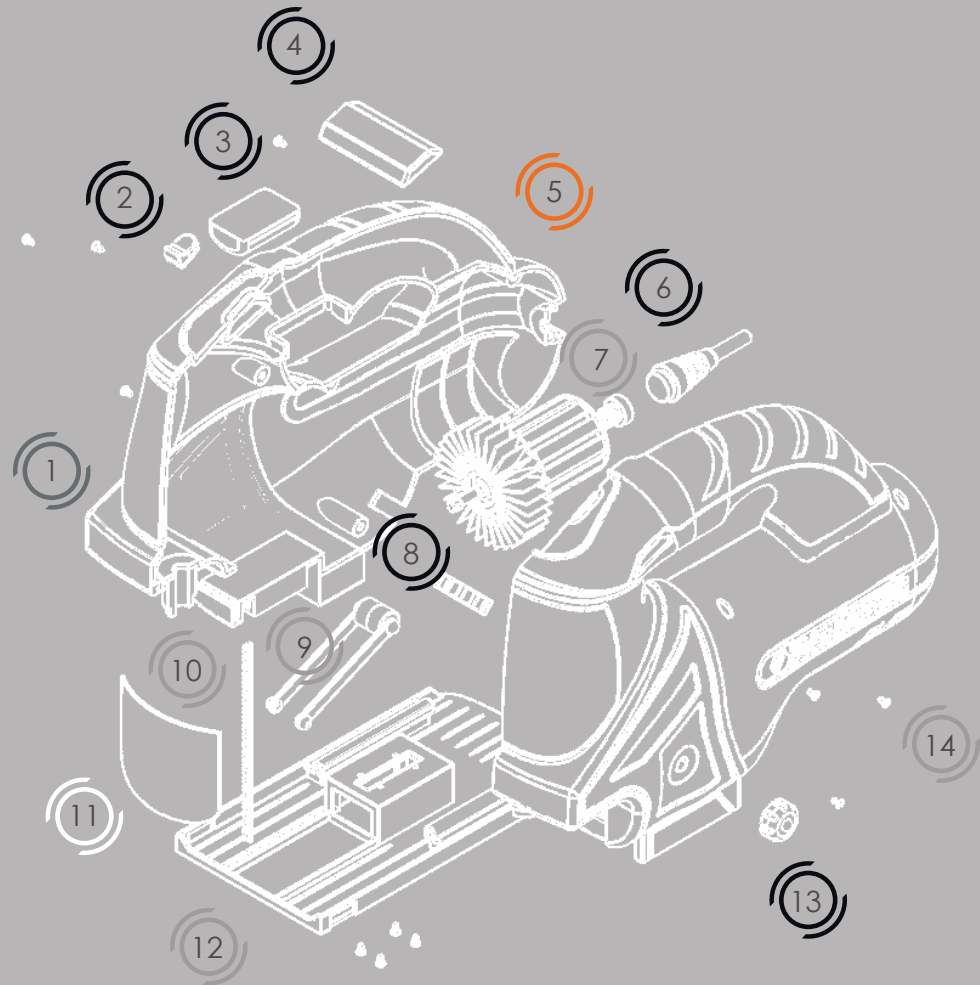
#	Part Name	Material	MFR Process	Finish	Color
1	front housing	nylon	injection	smooth	431
2	blade control	abs	injection	smooth	433 X2
3	trigger	abs	injection	textured	433 X2
4	safety switch	abs	injection	smooth	433 X2
5	rear housing	nylon	injection	smooth	172
6	cord	silicone	compression	smooth	433 X2
7	motor	steel	machined	smooth	none
8	guide adjust	abs	injection	smooth	433 X2
9	guard	aluminum	cast	smooth	none
10	blade	steel	machined	ground	none
11	shield	poly carbonate	compression	smooth	transparent
12	guide	steel	injection	textured	none
13	speed adjust	abs	injection	smooth	433 X2
14	screw	steel	injection	smooth	none

Print Detail



Color Key

-  PMS# 433 X2
-  PMS# 431
-  PMS# 172
-  TRANSPARENT
-  NONE



ideation refinement

Top-down modeling of the Solidworks model permitted me to dissect the overall form into its individual parts, making them easier to detail and apply color. The 3D model also led to some minor changes because of constraints encountered when working with the converging surfaces.

completion

I learned that top-down modeling makes the development of a Solidworks model and exploded view much more efficient. Also creating a parts list provides a visual to help the communication of ideas between a designer and an engineer.