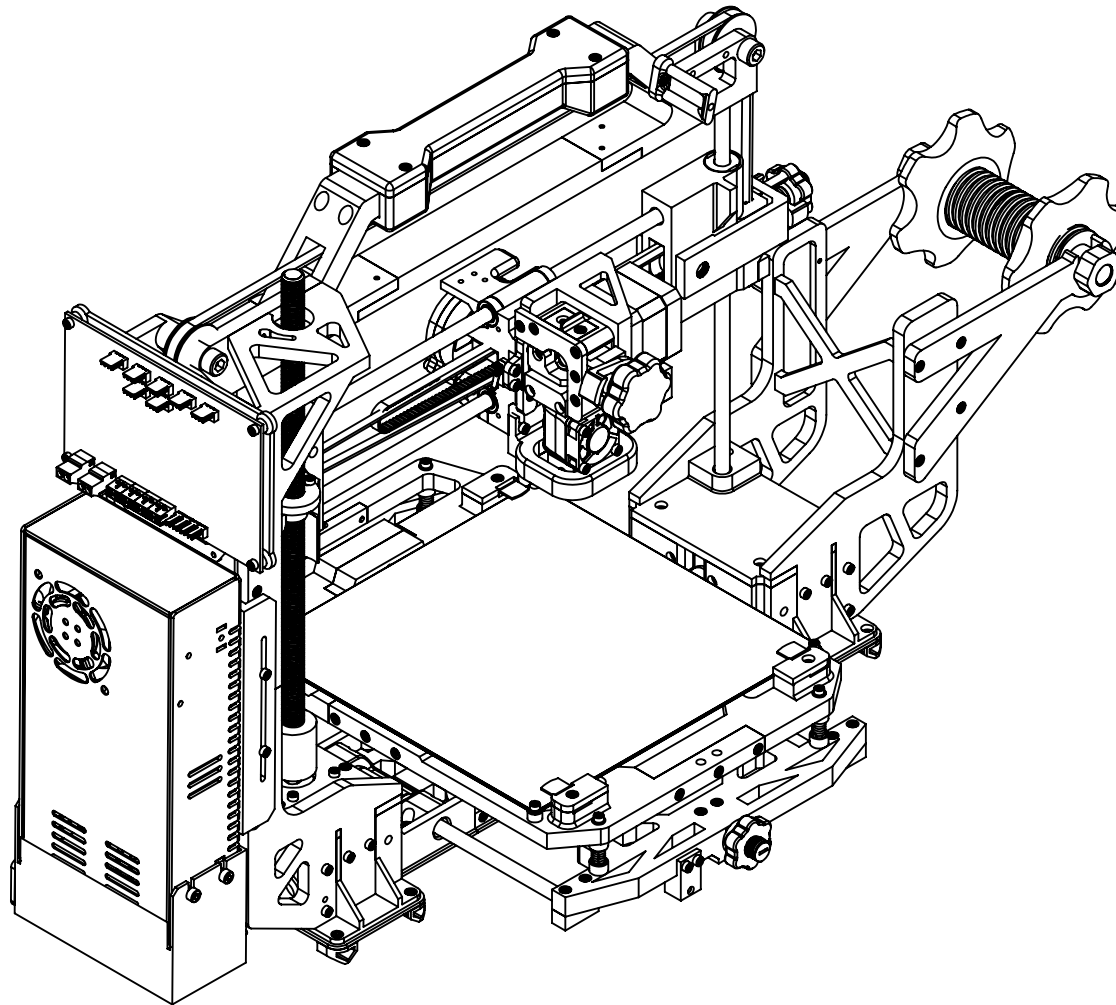SCALE: 1:4

SHEET 1 OF 16

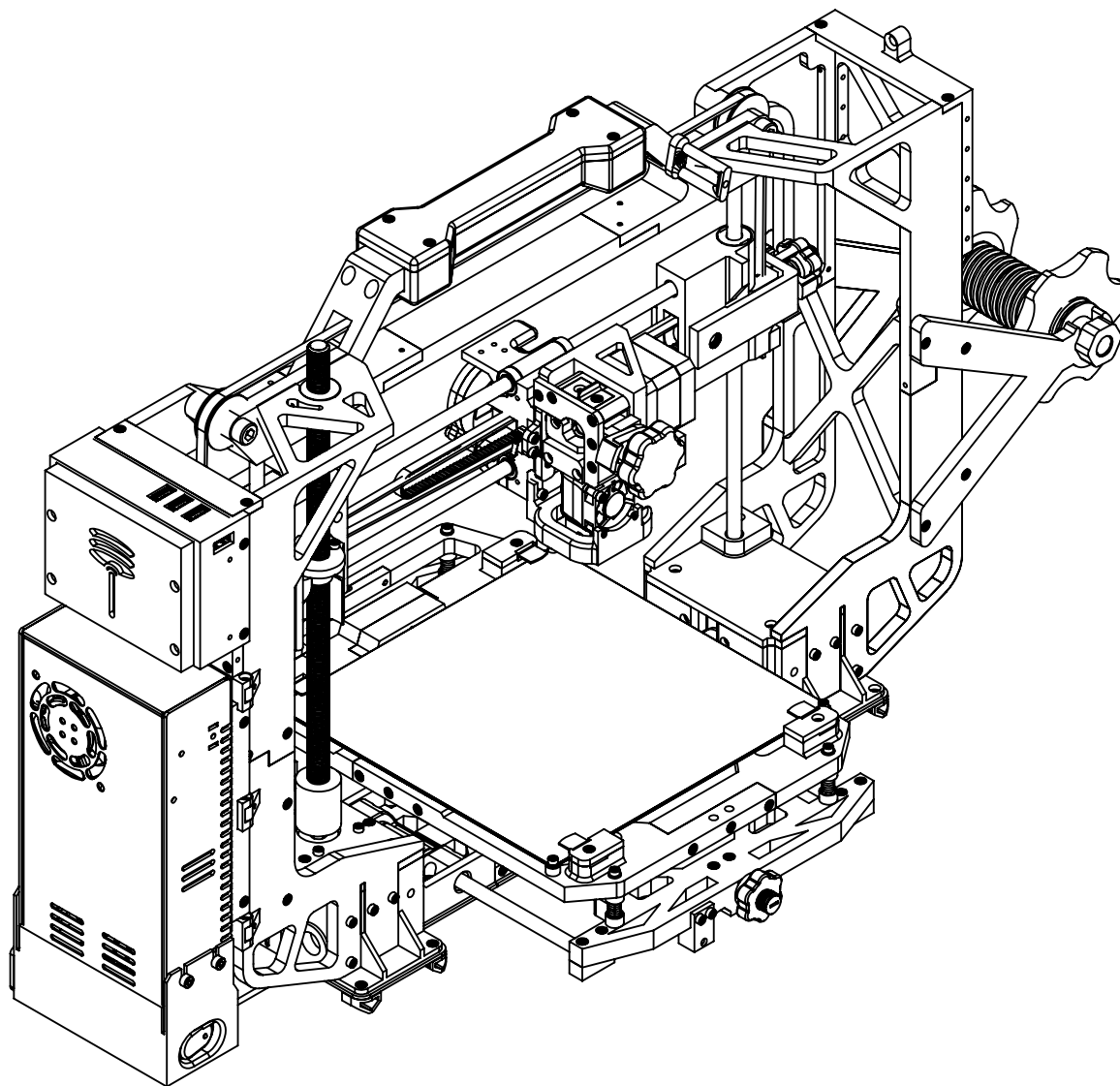CLUB Top Level Assy

Proto-Plastik A51Z CLASSIC

SCALE: 1:4

SHEET 2 OF 16

MAKER Top Level Assy

Proto-Plastik A51Z CLASSIC
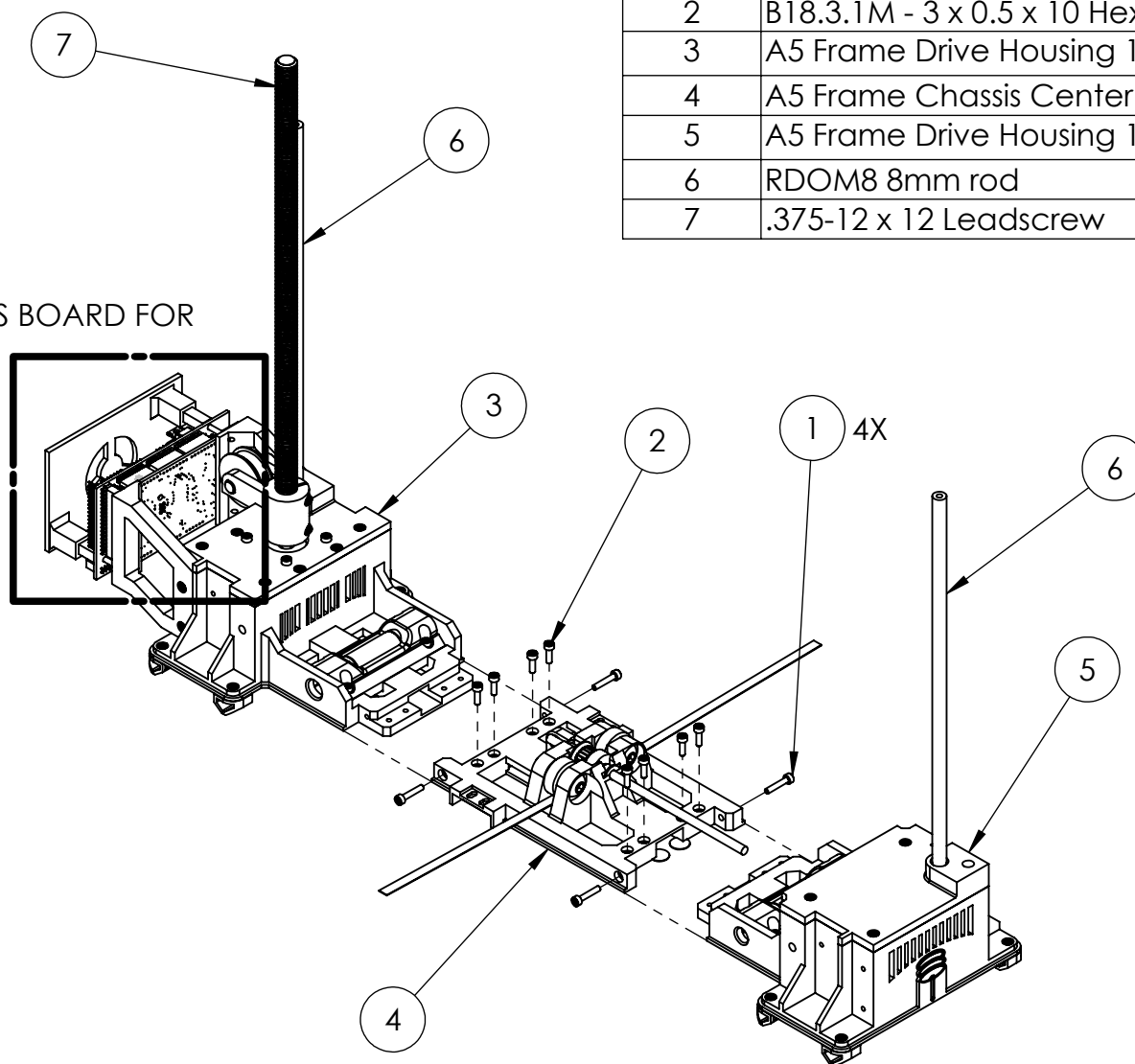
SCALE: 1:4

SHEET 3 OF 16

PROFESSIONAL Top
Level Assy

Proto-Plastik A51Z CLASSIC

ITEM NO.	PART NUMBER	CLUB/QTY.
1	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	4
2	B18.3.1M - 3 x 0.5 x 10 Hex SHCS -- 10NHX	8
3	A5 Frame Drive Housing 1Z Z-Axis	1
4	A5 Frame Chassis Center	1
5	A5 Frame Drive Housing 1Z Y-Axis	1
6	RDOM8 8mm rod	2
7	.375-12 x 12 Leadscrew	1

7

6

RAMPS BOARD FOR
CLUB

3

2

1 4X

6

5

4

ITEM NO.	PART NUMBER	QTY.
1	SBHCSCREW 0.3125-18x1-HX-N	2
2	5mm ID x 8mm OD x 6mm Flanged	2
3	chassis	1
4	R6RS bearing	2
5	GT2 Drive Pulley	1
6	driveshaft	1
7	y-belt	1
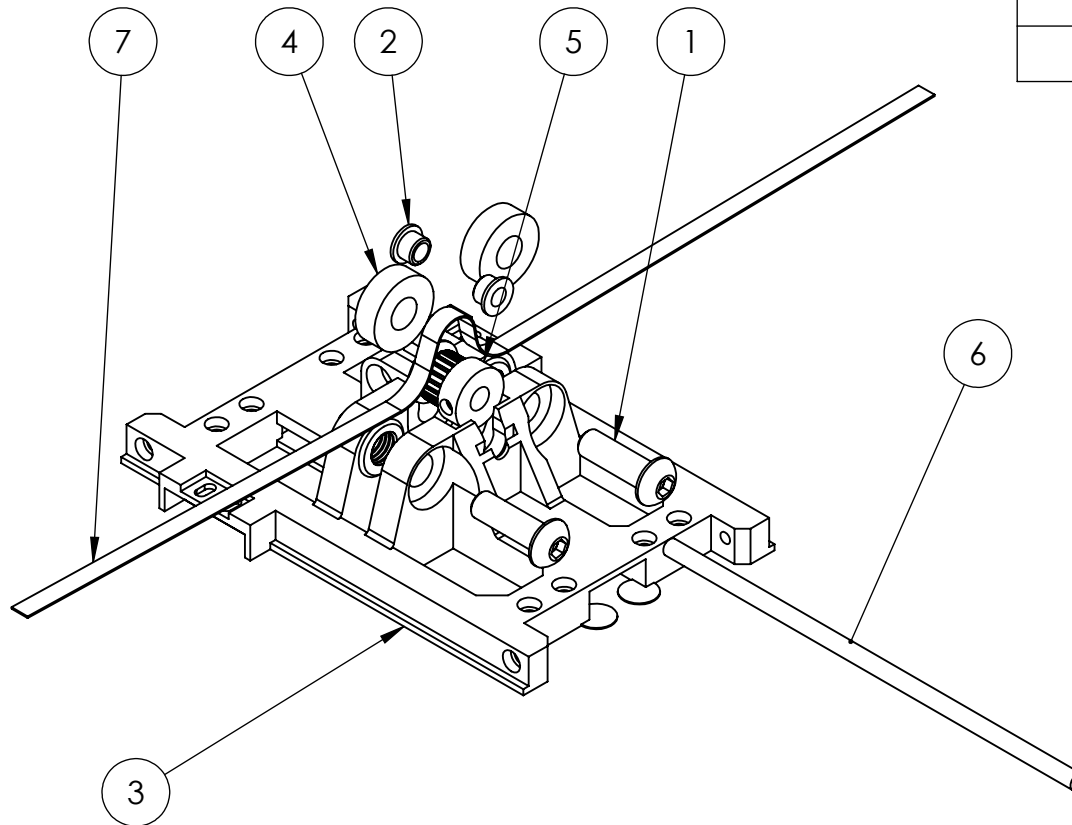
SCALE: 1:4

SHEET 5 OF 16

Frame Chassis Center

Proto-Plastik A51Z CLASSIC

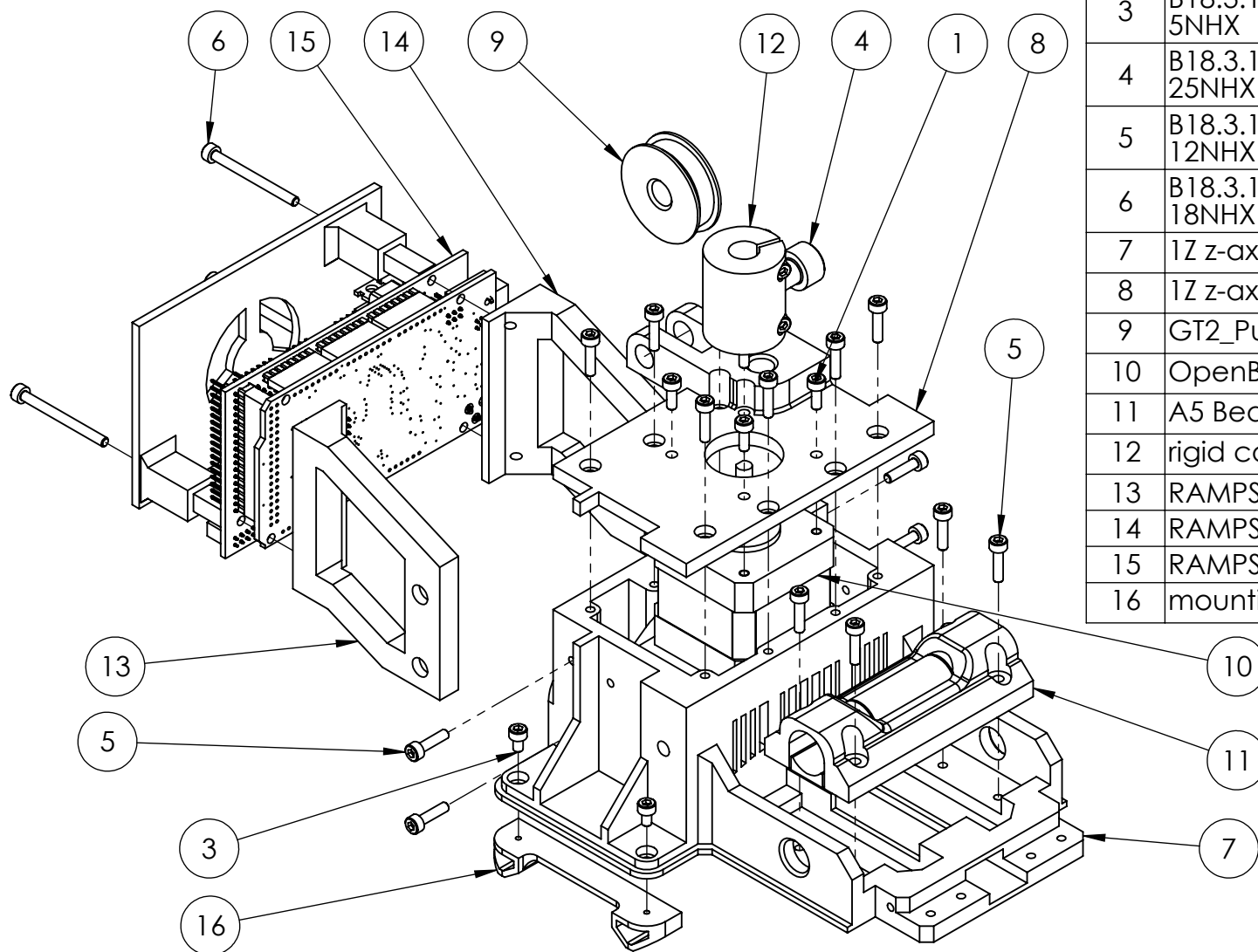| ITEM NO.	PART NUMBER	QTY.
1	1Z y-axis-drive housing-body	1
2	A5 Bearing Assy Y-Axis	1
3	OpenBuilds Nema 17 SKU775	1
4	1Z y-axis-drive housing-cover	1
5	mounting foot TPE	2
6	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	12
7	B18.3.1M - 3 x 0.5 x 5 Hex SHCS -- 5NHX	4
8	5mm Rigid Coupler	1
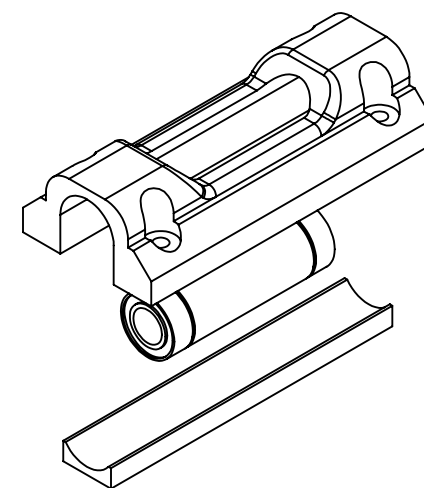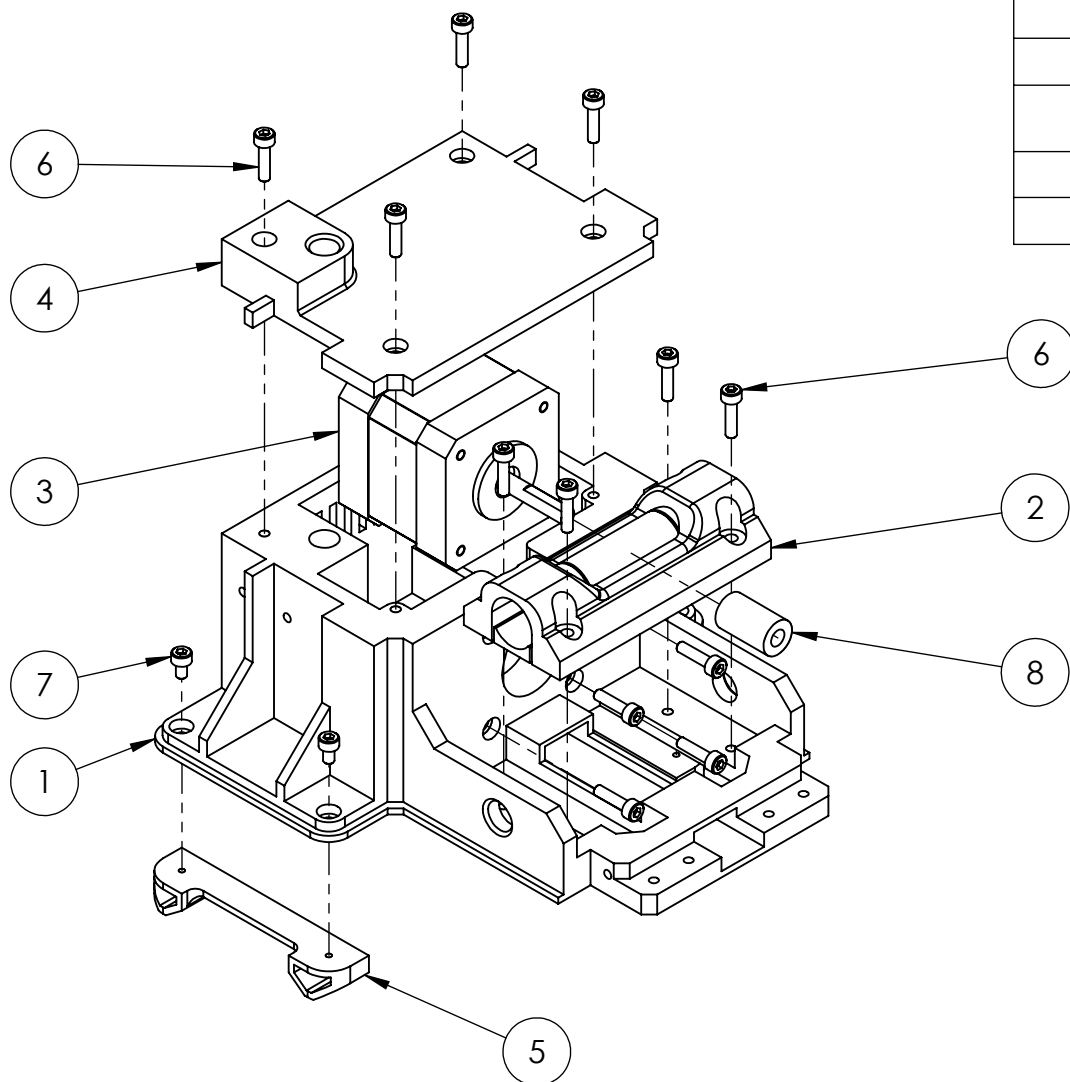
A5 Bearing Assy Y-Axis

SCALE: 1:4

SHEET 6 OF 16

Y-Axis Drive Housing

Proto-Plastik A51Z CLASSIC

ITEM	PART NUMBER	CLUB
1	B18.3.1M - 3 x 0.5 x 8 Hex SHCS -- 8NHX	4
2	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	2
3	B18.3.1M - 3 x 0.5 x 5 Hex SHCS -- 5NHX	4
4	B18.3.1M - 8 x 1.25 x 25 Hex SHCS -- 25NHX	1
5	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	16
6	B18.3.1M - 3 x 0.5 x 35 Hex SHCS -- 18NHX	3
7	1Z z-axis drive housing-body	1
8	1Z z-axis-drive housing-cover	1
9	GT2_Pulley	1
10	OpenBuilds Nema 17 SKU775	1
11	A5 Bearing Assy Y-Axis	1
12	rigid coupler	1
13	RAMPS Mount-front	1
14	RAMPS Mount-rear	1
15	RAMPS1_4	1
16	mounting foot TPE	2

SCALE: 1:4	
SHEET 7 OF 16	Z-Axis Drive Housing

Proto-Plastik A51Z CLASSIC

ITEM NO.	PART NUMBER	CLUB/QTY.
1	A51Z X-Axis Gantry-left	1
2	A51Z X-Axis Gantry-right	1
3	RDOM8 8mm rod	2
4	Filament Drive	1
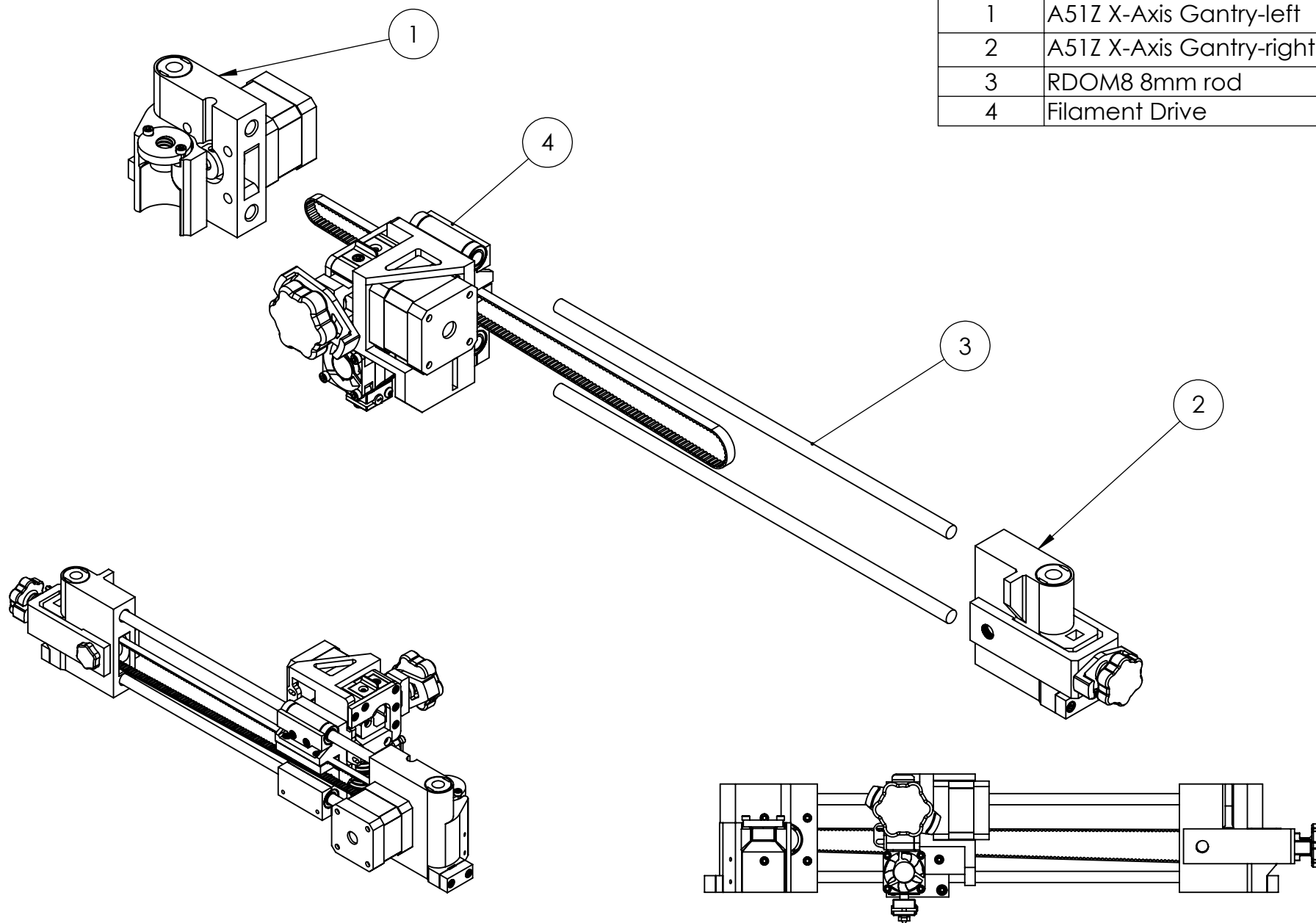
SCALE: 1:4

SHEET 8 OF 16

X-Axis Gantry (CLUB)

Proto-Plastik A51Z CLASSIC
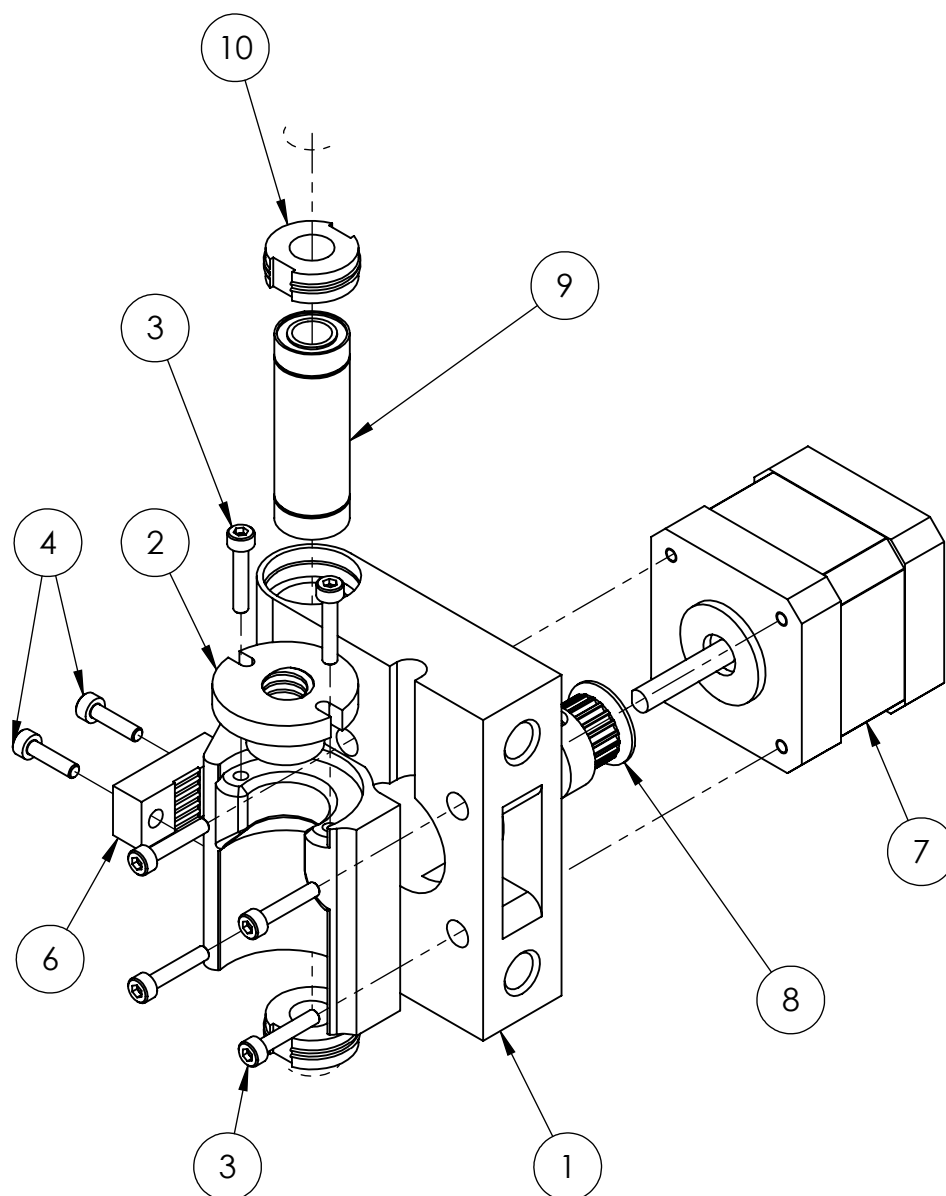
ITEM NO.	PART NUMBER	QTY.
1	A51Z X-Gantry Left	1
2	acme threaded retainer	1
3	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	6
4	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	2
5	B18.2.4.1M - Hex nut, Style 1, M3 x 0.5 --D-N	2
6	A51Z X-Gantry Left-retainer	1
7	OpenBuilds Nema 17 SKU775	1
8	GT2 Drive Pulley	1
9	LM8LUU Bearing	1
10	A51Z X-Gantry-snap plug	2
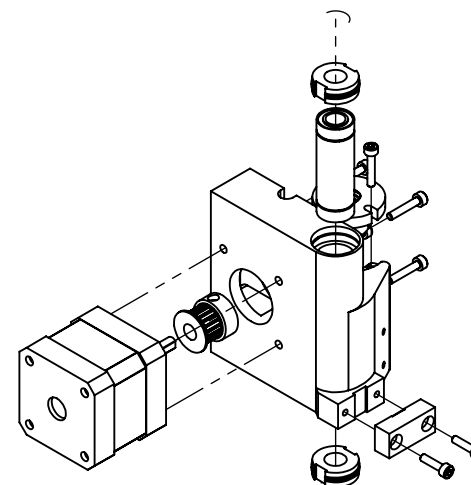
ITEM NO.	PART NUMBER	QTY.
1	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	2
2	LM8LUU Bearing	1
3	A51Z X-Gantry Left-retainer	1
4	R6RS bearing	1
5	A51Z X-Gantry Right	1
6	A51Z X-Gantry Right-axle	1
7	ProtoPlastik X-gantry RIGHT-cap	1
8	A51Z X-Gantry Right-tensioner	1
9	A51Z X-Gantry Right-tightening knob	1
10	A51Z X-Gantry Right-lock nut	1
11	A51Z X-Gantry-snap plug	2
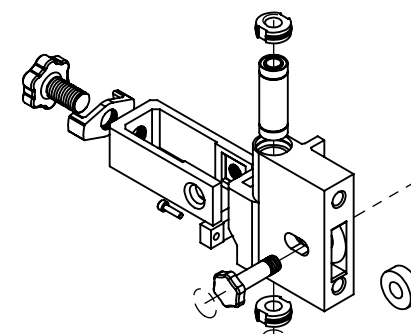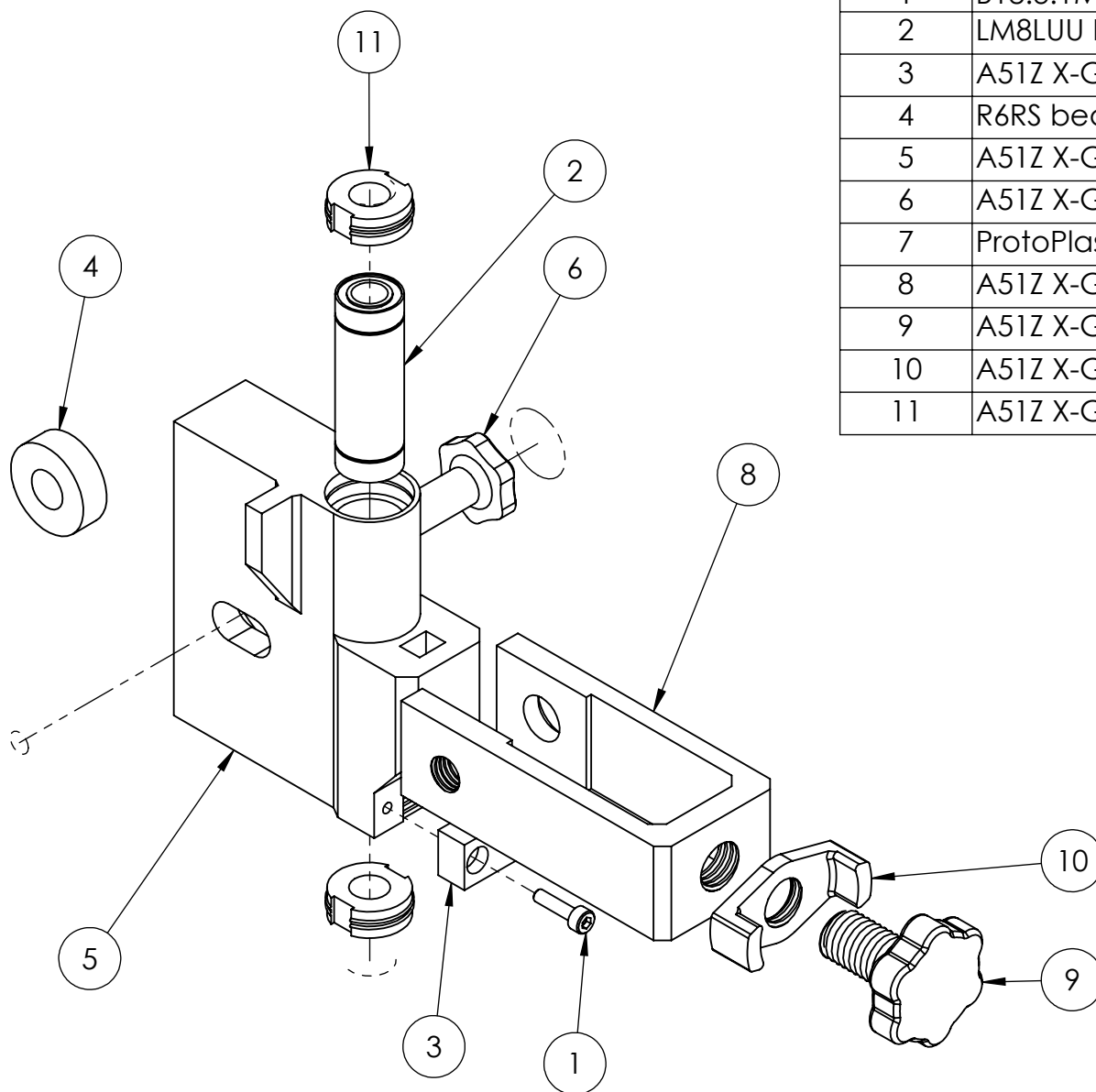
SCALE: 1:4

SHEET 10 OF 16

X-Axis Gantry Right

Proto-Plastik A51Z CLASSIC
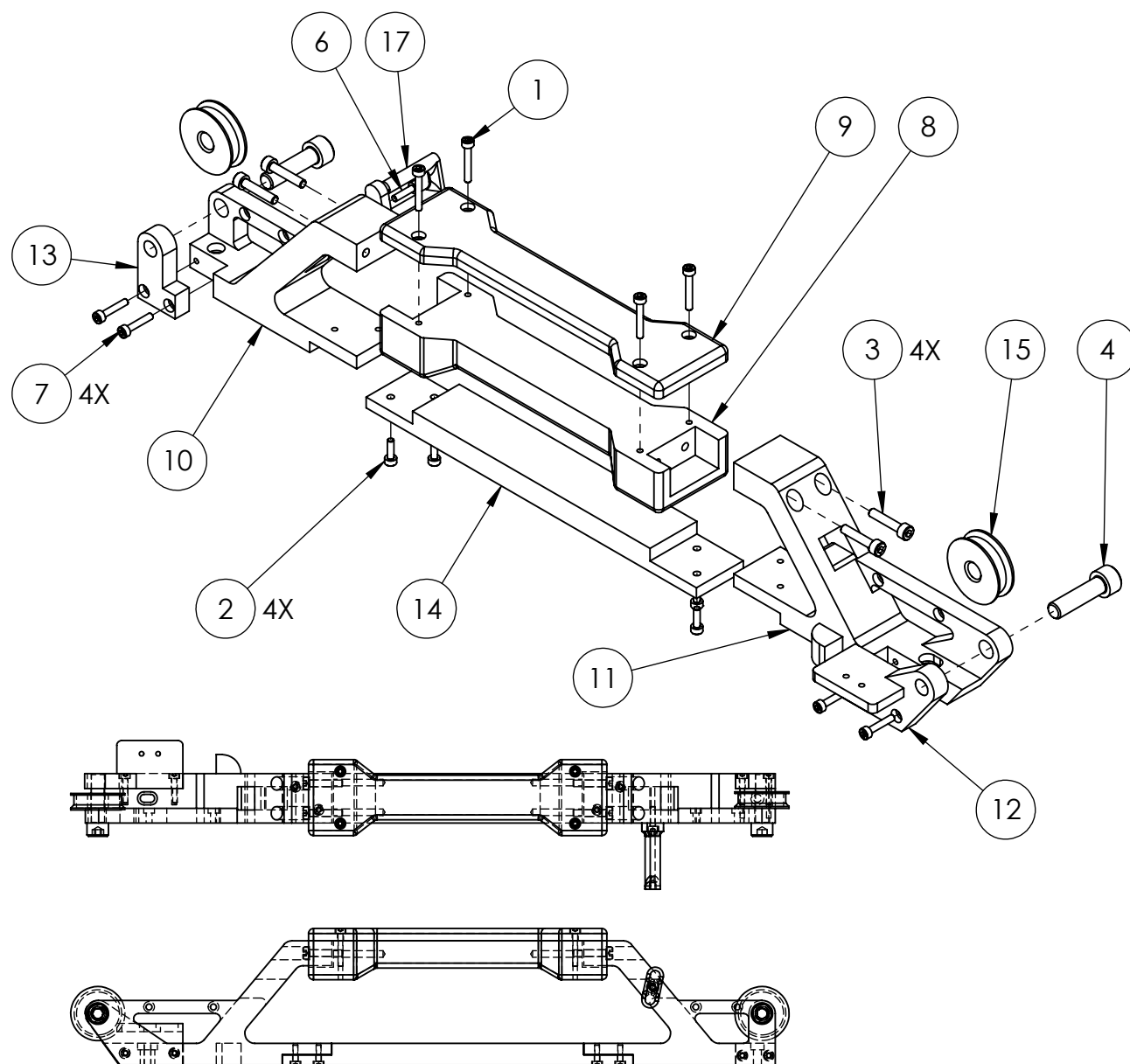
ITEM NO.	PART NUMBER	QTY.
1	B18.3.1M - 3 x 0.5 x 20 Hex SHCS -- 20NHX	4
2	B18.3.1M - 3 x 0.5 x 10 Hex SHCS -- 10NHX	4
3	B18.3.1M - 4 x 0.7 x 20 Hex SHCS -- 20NHX	4
4	B18.3.1M - 8 x 1.25 x 30 Hex SHCS -- 30NHX	2
5	B18.3.1M - 4 x 0.7 x 8 Hex SHCS -- 8NHX	1
6	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	1
7	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	4
8	truss handle bottom	1
9	truss handle top	1
10	truss left	1
11	truss right	1
12	truss right-retainer	1
13	truss left-retainer	1
14	truss center	1
15	GT2_Pulley	2
16	Anti-sag belt	1
17	filament guide	1

SCALE: 1:4

SHEET 11 OF 16

Truss (CLUB)

Proto-Plastik A51Z CLASSIC

ITEM NO.	PART NUMBER	QTY.
1	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	4
2	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	4
3	glass clip	4
4	8 x 8.5 glass	1
5	A5 Bed Build Platform	1
6	build platform-clip retainer-OH	2
7	build platform-clip retainer	2
8	A5 Bed Chassis	1
9	silicon standoff	4
10	heated-bed	1
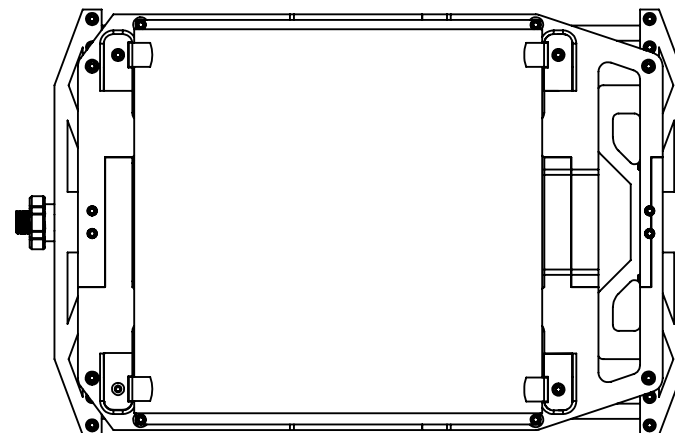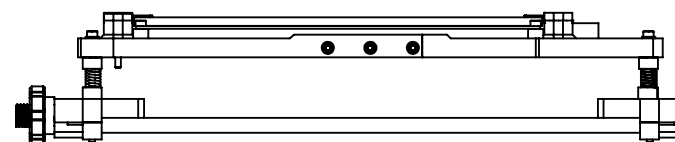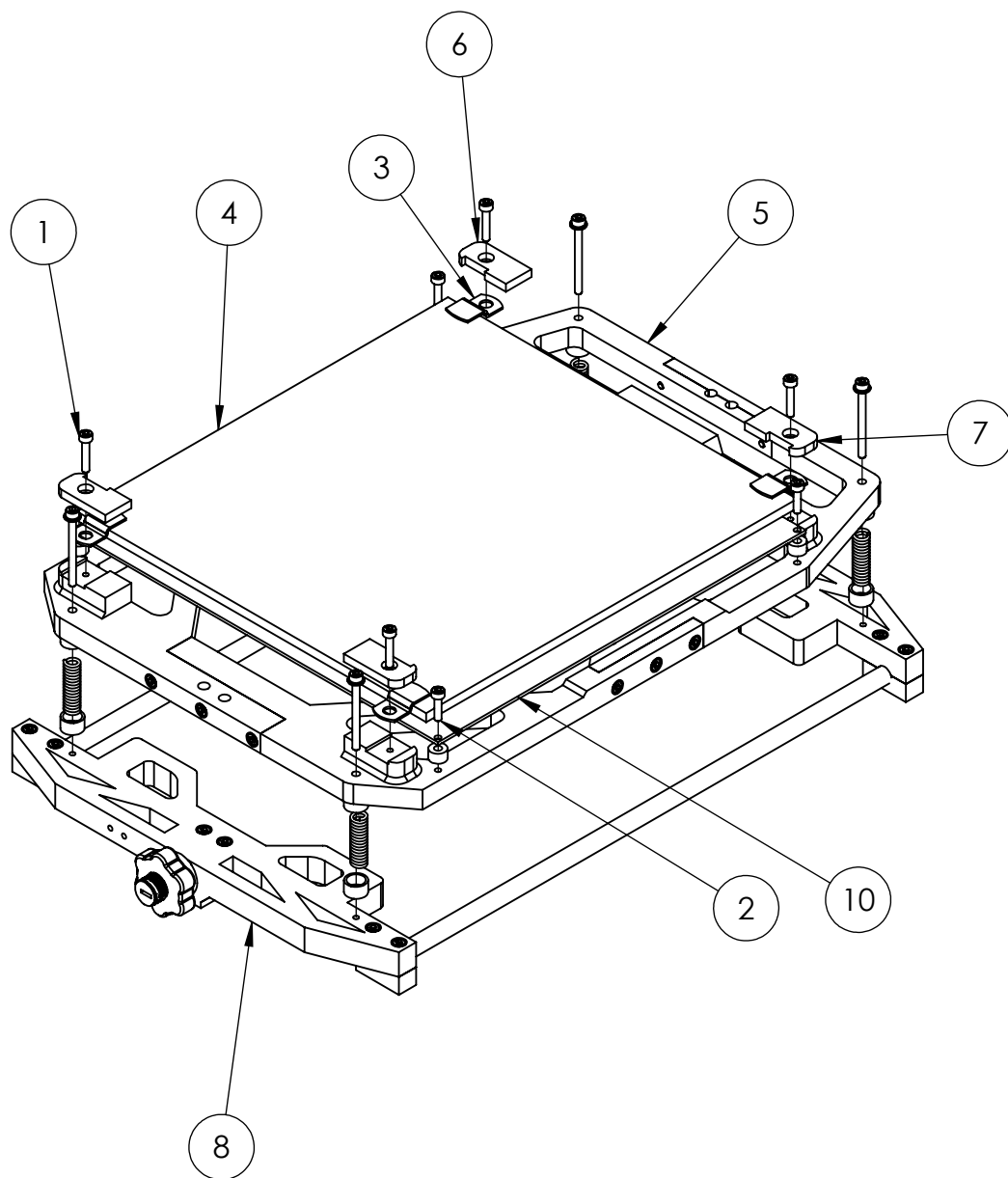
SCALE: 1:4

SHEET 12 OF 16

Bed

Proto-Plastik A51Z CLASSIC

ITEM NO.	PART NUMBER	CLUB
1	bed chassis-spreader	1
2	bed chassis-shaft retainer	4
3	bed chassis-spreader-OH	1
4	bed chassis-belt retainer	2
5	B18.3.1M - 3 x 0.5 x 20 Hex SHCS -- 20NHX	8
6	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	4
7	RDOM8 8mm rod	2
8	B18.2.4.2M - Hex nut, Style 2, M3 x 0.5 --D-N	8
9	y-axis tightener	1
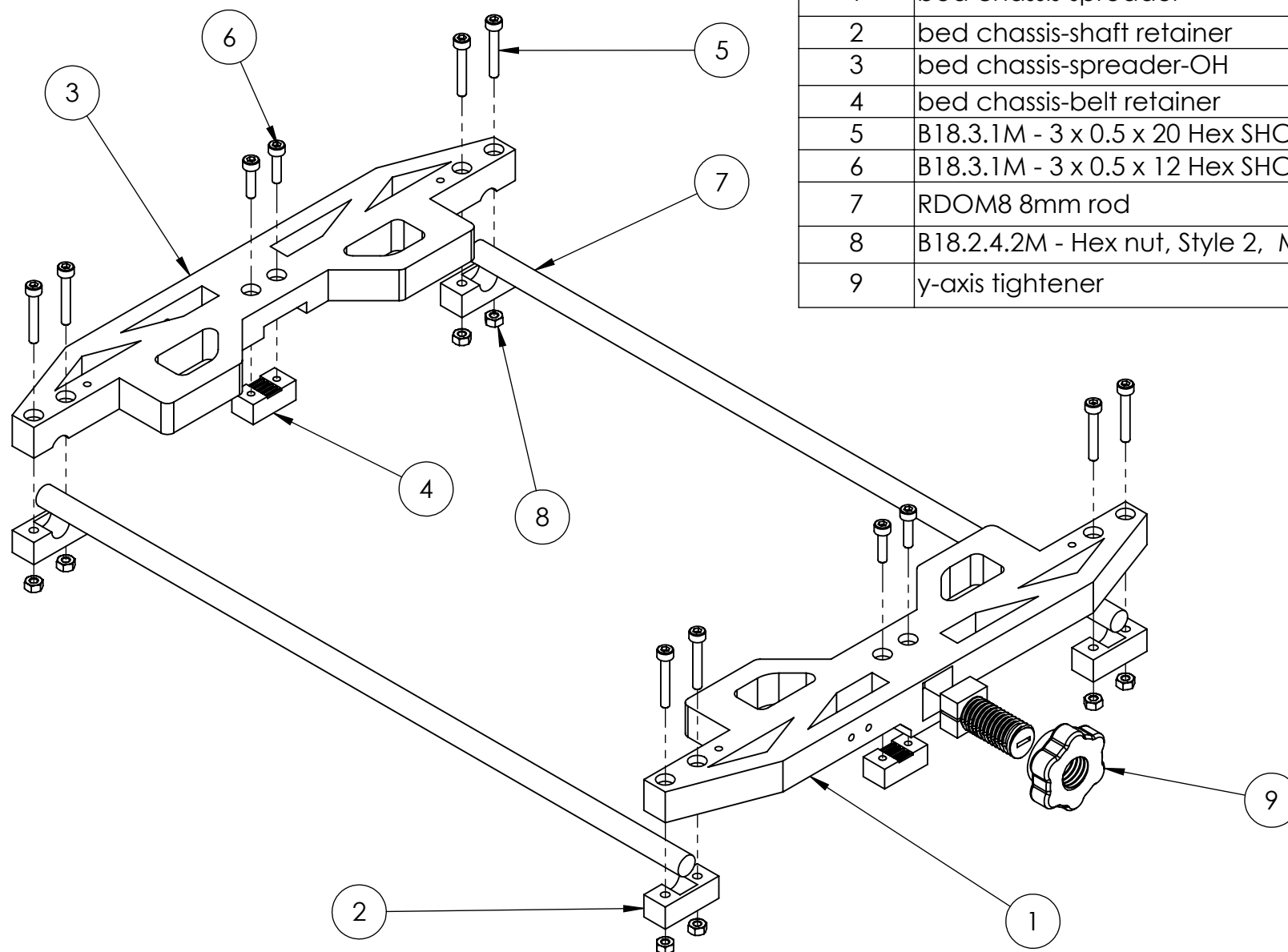
SCALE: 1:4

SHEET 13 OF 16

Bed Chassis

Proto-Plastik A51Z CLASSIC

ITEM NO.	PART NUMBER	QTY.
1	B18.22M - Plain washer, 3 mm, narrow	4
2	B18.3.1M - 3 x 0.5 x 35 Hex SHCS -- 18NHX	4
3	B18.3.1M - 3 x 0.5 x 25 Hex SHCS -- 18NHX	6
4	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	4
5	B18.3.1M - 3 x 0.5 x 10 Hex SHCS -- 10NHX	4
6	build platform-NE	1
7	build platform-NW	1
8	build platform-SE	1
9	build platform-SW	1
10	straight spring	4
11	spring cup	8
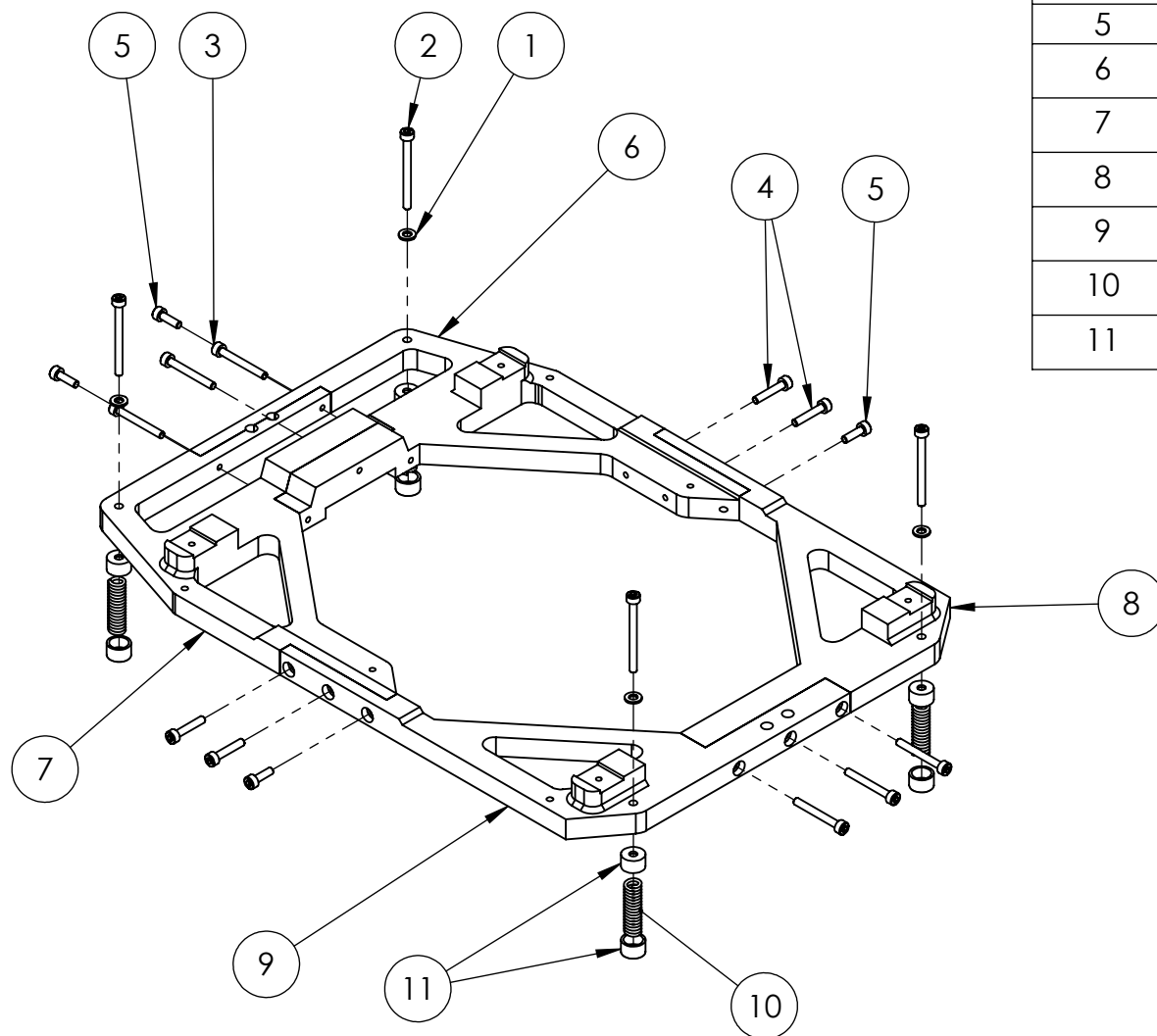
SCALE: 1:4

SHEET 14 OF 16

Build Platform

Proto-Plastik A51Z CLASSIC
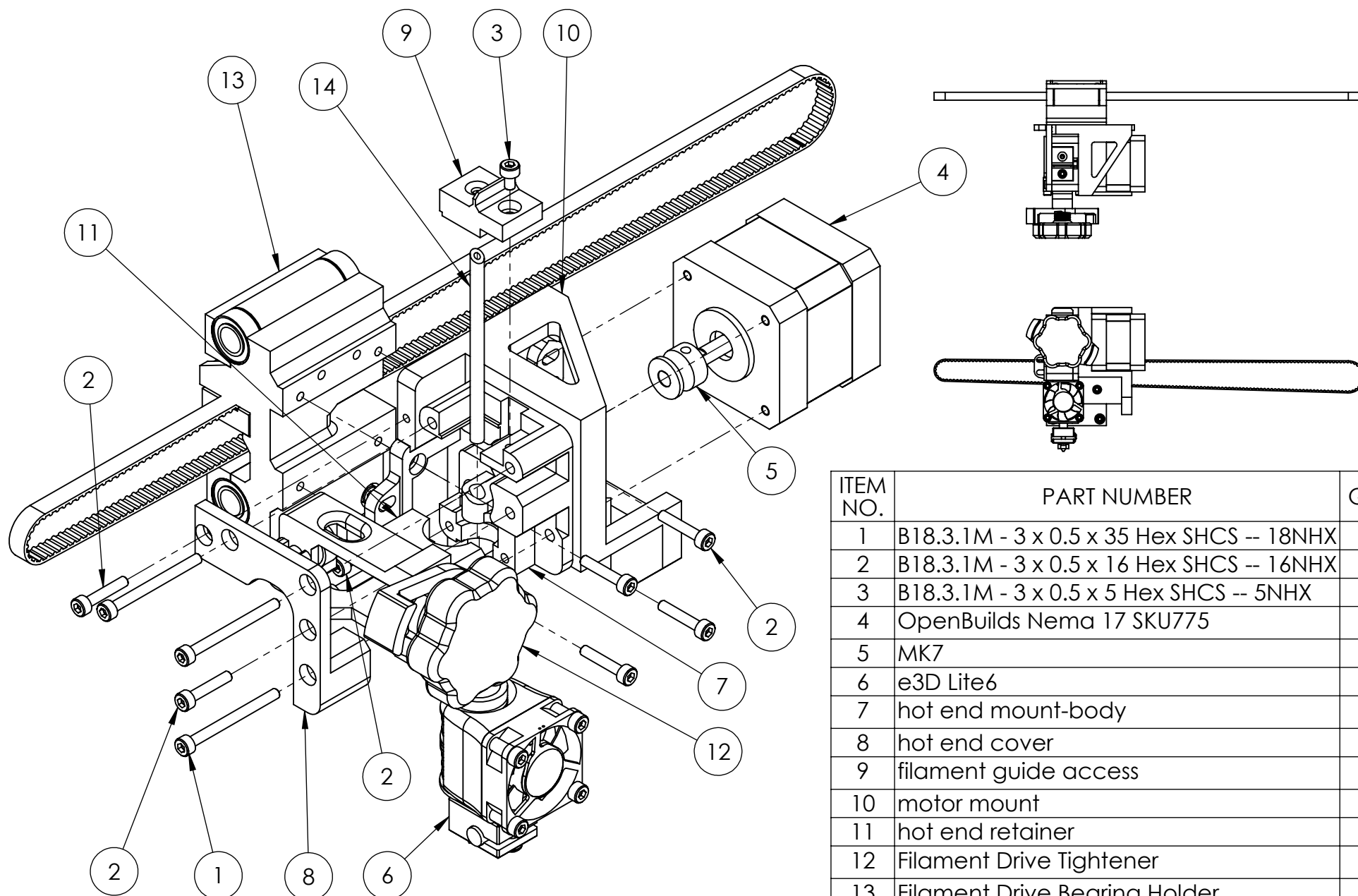
ITEM NO.	PART NUMBER	QTY.
1	B18.3.1M - 3 x 0.5 x 35 Hex SHCS -- 18NHX	3
2	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	9
3	B18.3.1M - 3 x 0.5 x 5 Hex SHCS -- 5NHX	1
4	OpenBuilds Nema 17 SKU775	1
5	MK7	1
6	e3D Lite6	1
7	hot end mount-body	1
8	hot end cover	1
9	filament guide access	1
10	motor mount	1
11	hot end retainer	1
12	Filament Drive Tightener	1
13	Filament Drive Bearing Holder	1
14	ptfe tube	1

SCALE: 1:4

SHEET 15 OF 16

Filament Drive

Proto-Plastik A51Z CLASSIC

ITEM NO.	PART NUMBER	QTY.
1	LM8LUU Bearing	2
2	B18.3.1M - 3 x 0.5 x 16 Hex SHCS -- 16NHX	4
3	B18.3.1M - 3 x 0.5 x 12 Hex SHCS -- 12NHX	2
4	bearing holder body	1
5	bearing lower retainer	1
6	bearing upper retainer	1
7	belt retainer	1
8	670mm drive belt	1
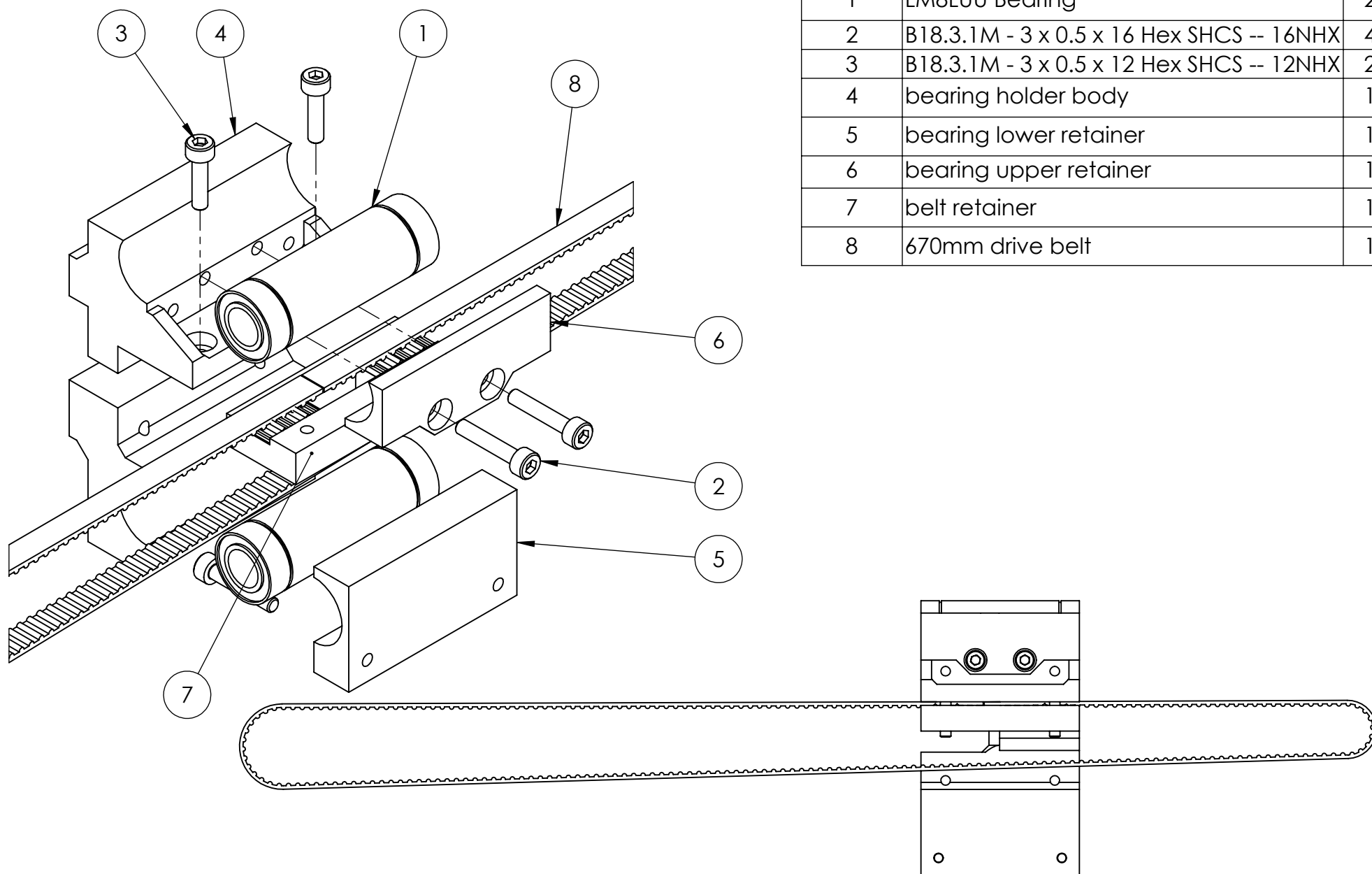
SCALE: 1:4

SHEET 16 OF 16

Filament Drive Bearing Holder

Proto-Plastik A51Z CLASSIC