



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	McMaster 6383K245	1/2" Ball Bearing	2
2	Rotating Plate	3D Printed PLA	1
3	McMaster 6445K1	1/4" U Joint	1
4	McMaster 60645K78	6-32 Female Ball Joint	2
5	Digikey SER0044	Servo Motor	3
6	McMaster 60645K61	6-32 Male Ball Joint	2
7	Gasket Rod	3D Printed PLA	1
8	Servo Block	3D Printed PLA	4
9	Stationary Base Lid	3D Printed PLA	1
10	Stationary Base	3D Printed PLA	1
11	Ball Rod	1/8" 4140 Steel Rod	3
12	Stationary Base Lid Ball Bearing	3D Printed PLA	3
13	McMaster 94589A200	6-32 Servo Link Washer	2
14	McMaster 91099A215	6-32 1/2" Screw	2
15	Head/Neck Interface	3D Printed PLA	1
16	Connecting Rod	1/8" 4140 Steel	2
17	Central Shaft	1/2" 4140 Steel	1
18	Saver	3D Printed PLA	2
19	Rotational Saver	3D Printed PLA	2
20	Rod Rotation	1/8" 4140 Steel Rod	1
21	Neck Servo Link	3D Printed PLA	2
22	McMaster 90128A251	1/4-20 1.5" Socket Cap	3
23	McMaster 94355A219	6-32 5/32" Set Screw	4
24	Shaft Servo Interface	3D Printed PLA	1
25	McMaster 90128A216	M4 20mm Socket Cap Screw	8
26	McMaster 91290A180	M4 30mm Socket Cap Screw	4
27	McMaster 90592A090	M4 Hex Nut	12
28	McMaster 90480A007	6-32 Hex Nut	2
29	Gasket to U-Joint Rod	1/8" 4140 Steel Rod	1
30	Gasket to Head/Neck Interface Rod	1/8" 4140 Steel Rod	1
31	McMaster 91290A186	M4 50mm Socket Cap Screw	4
32	McMaster 91251A540	1/4-20 3/4" Socket Cap Screw	4

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

TITLE:

NECK MECHANISM

SIZE A	DWG. NO.	REV
SCALE: 1:4	SHEET 1 OF 1	