

PART NUMBER	QTY	DESCRIPTION	MATERIAL / VENDOR	SURFACE AREA (SQ-IN)	ANODIZING AMPS @ 12V	NOTES
Shoulder Bolt	2	.188 dia x .500 lg x 8-32 thread	McMaster Carr			
Shoulder Bolt	2	.188 dia x 0.188 lg x 8-32 thread	McMaster Carr			
Shoulder Bolt	2	.250 dia x 0.625 lg x 10-32 thread	McMaster Carr			
Shoulder Bolt	1	.375 dia x 0.875 lg x 5_16-16 thread	McMaster Carr			
Shoulder Bolt	1	.500 dia x 1.500 lg x 3_8-16 thread	McMaster Carr			
020 O-Ring	2	Buna-N	McMaster Carr			
0400NAB	16	#4-40 ACORN NUT	SS or Brass			
0803COPS	3	10-32 X 1/4 CUP POINT SETSCREW	SS			
1100NHS	2	10-32 HEX NUT	SS			
1104COPS	2	10-32 X 1/4 CUP POINT SETSCREW	SS			
1106SHCS	10	#10-32 X 3/8" LG SHCS	SS			
1108COPS	2	10-32 X 1/2 CUP POINT SETSCREW	SS			
1108SHCS	7	10-32 x 1/2 LG SHCS	SS			
1112FHPS	3	#10-32 X 3/4" LG FLAT HEAD SCREW	SS			
1204	1	Spherical Bearing, 20mm Bore x 47mm OD	McMaster Carr, Grainger, Ebay			
2508SHCS	1	1/4-20 x 1/2" LG Socket Head Cap Screw	SS			
2512SHCS	1	1/4-20 x 3/4" LG Socket Head Cap Screw	SS			
26mm Track Roller	1	Track Roller, 26mm OD x M10-1.25 thread with nut	Ebay			
60355K502	4	Ball Bearing, Open, Trade Number R3, for 3/16" Shaft Diameter	McMaster Carr			
6391K172	1	Bearing, 3/8" Shaft x 1/2" LG	McMaster Carr			
6391K211	2	Bearing, 1/2" Shaft x 3/8" LG	McMaster Carr			
6655K130	4	Thrust Ball Bearing for 1/4" Shaft Diameter, 9/16" OD, 0.193" Thick	McMaster Carr			
6655K15	2	Thrust Ball Bearing for 3/8" Shaft Diameter, 13/16" OD, 0.249" Thick	McMaster Carr			
6655K170	2	Thrust Ball Bearing for 1/2" Shaft Diameter, 15/16" OD, 0.249" Thick	McMaster Carr			
9540K664	3	Unthreaded Bumper, Heavy Duty, SBR Rubber, 3/4" OD, 9/16" High	McMaster Carr			
Ball Post, Flywheel	1		6061 AL	7.4	1.1	
Baseplate	1		6061 AL	166.2	24.9	
Cam	1		6061 AL	23.5	3.5	HARD ANODIZED
Cam Pivot	2		6061 AL	6.5	1.0	
Crank Bearing Plate	2		6061 AL	9.6	1.4	
Crank Spacer Plate	1		6061 AL	14.5	2.2	
Cylinder	2		ø1.00 OD X .125 WALL AL TUBING	11.7	1.8	
End Plate, Cylinder	2		6061 AL	12.8	1.9	HARD ANODIZED
Flywheel	1		6061 AL	53.4	8.0	HARD ANODIZED
Head, Cylinder	2		BRASS OR AL	12.1	1.8	
Pin, Cam Roller	2		BRASS		0.0	
Pin, Piston Joint	2		BRASS OR CRS		0.0	
Piston	2		6061 AL	6.6	1.0	HARD ANODIZED
Piston Center	1		BRASS OR AL	6.1	0.9	AL HARD ANODIZED
Piston Ring	2		McMASTER CARR 9959K22		0.0	
Pivot Arm Base	2		6061 AL	4.3	0.6	
Flywheel Bracket	1		6061 AL	15.7	2.4	
Post, Walking Beam	1		6061 AL	9	1.4	
Spacer, Cam Follower	2		BRASS OR AL	0.6	0.1	
Spherical Limiter	1		6061 AL	5.3	0.8	
Spring, Compression	4		Expériment for size		0.0	
Tie Rod, Cylinder	8		CRS or Brass		0.0	
Valve	2		Brass		0.0	
Valve Rod Joint 01	2		Brass		0.0	
Valve Roller	2		Brass		0.0	
Valve Tappet	2		Brass		0.0	
Walking Beam	1		6061 AL	22.1	3.3	