



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Frame Assembly	FRA1	1
2	Roller Assembly	RA1	1
3	Armor Plate	AP2	1
4	Armor Plate(Not Shown)	AP1	1
5	Gearbox Assembly	GBA1	2
6	Motor Mount	MM1	1
7	Motor	1,621 RPM HD Premium Planetary Gear Motor	1
8	Electrical Mounting	EMA1	1
9	6832K44	48 Pitch, 36 Tooth Gear with Set Screw	2
10	Wheel Hub	Colson Series 2 Hub, 1/2" Plane Bore	4
11	Wheel	Colson Wheel 5in x 1-1/4in	4
12	Axle Rear	AR1	2
13	Battery Pack	AT: Tenergy NiMH 12V 4200mAh Rechargeable Battery Pack	1
14	1375K56	42 Tooth MXL Timing Belt Pulley	4
15	1254N21	24 Tooth MXL Timing Belt Pulley	1
16	6383K213	1/4" Shaft Diameter Ball Bearing(Roller Assembly)	2
17	1375K45	24 Tooth Timing Belt Pulley	1
18	Roller Attachment 2	-	2
19	FrontAxle	-	2
20	5912K15	Sleeve Bearing	4
21	7421K4	Thrust Bearing	2
22	98585A109	Retaining Ring	4

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  $\pm 1/16"$   
ANGULAR: MACH  $\pm 5$  BEND  $\pm 1$   
TWO PLACE DECIMAL  $\pm 0.03"$   
THREE PLACE DECIMAL  $\pm 0.005"$

INTERPRET GEOMETRIC TOLERANCING PER:

COMMENTS:

NEXT ASSY

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

KF

-

CHECKED

ENG APPR.

MFG APPR.

MATERIAL

-

MSU M.& I.E. DEPT.

TITLE:

-

Robot Asembly

SIZE

A

DWG. NO.

Main1

REV

1

SCALE: 1:8

WEIGHT:

SHEET 1 OF 1