

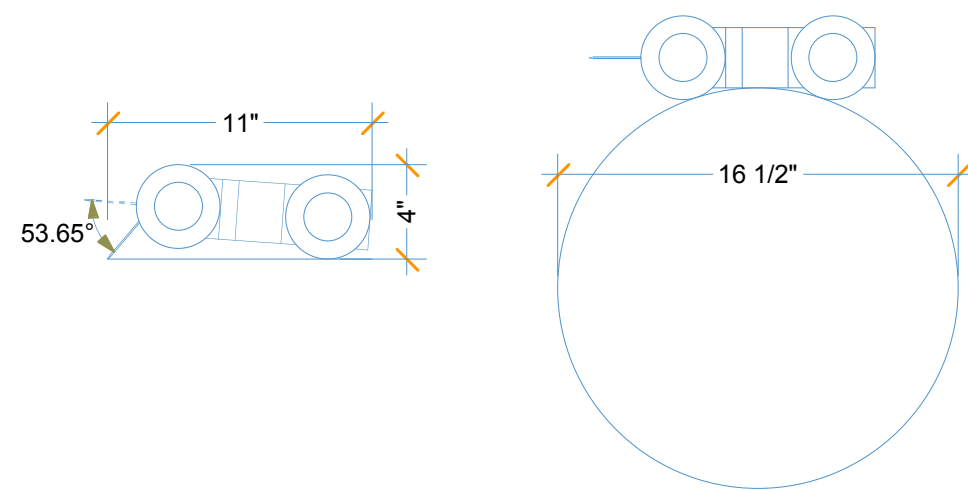
Version 2.1

DTOM

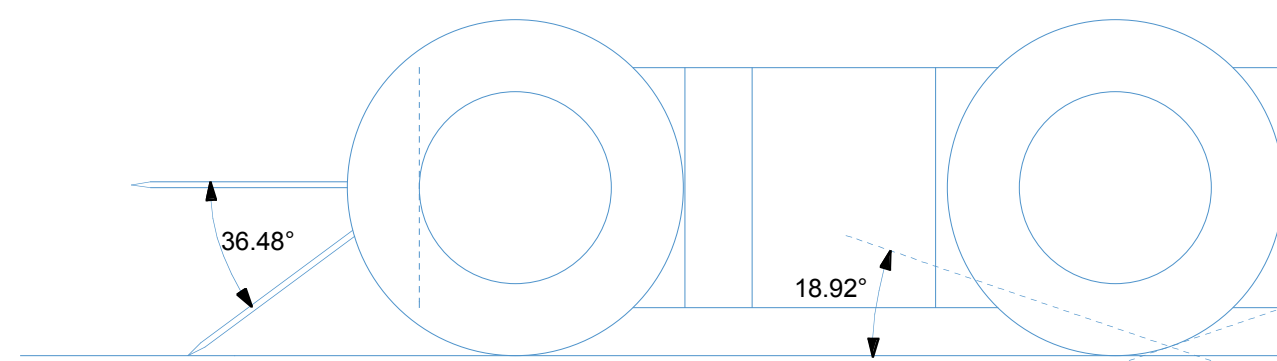
Designed By Aubrey Falconer

In Action!

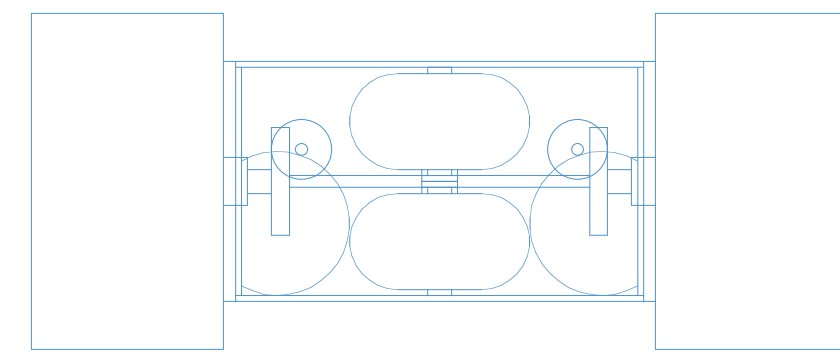
Scale: 3" = 1'-0"



Side View:

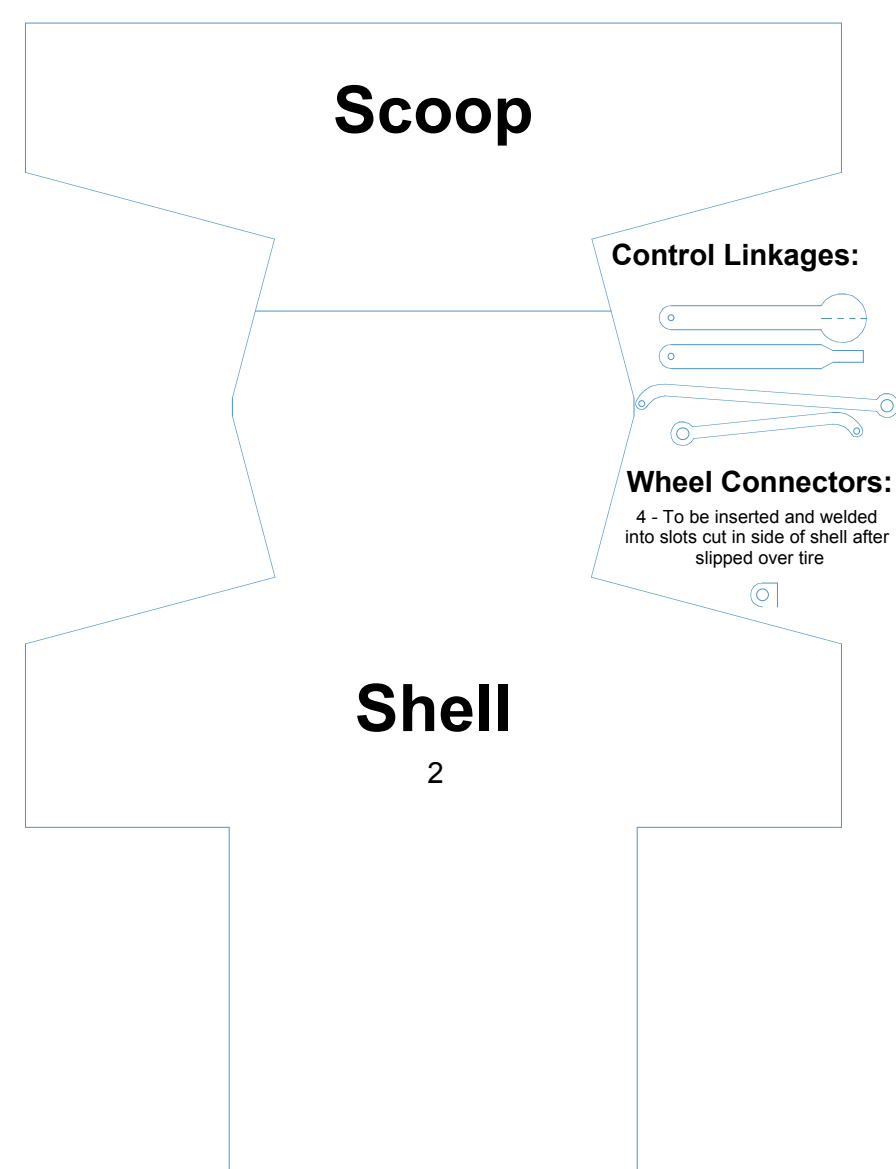


Back Cutaway View:

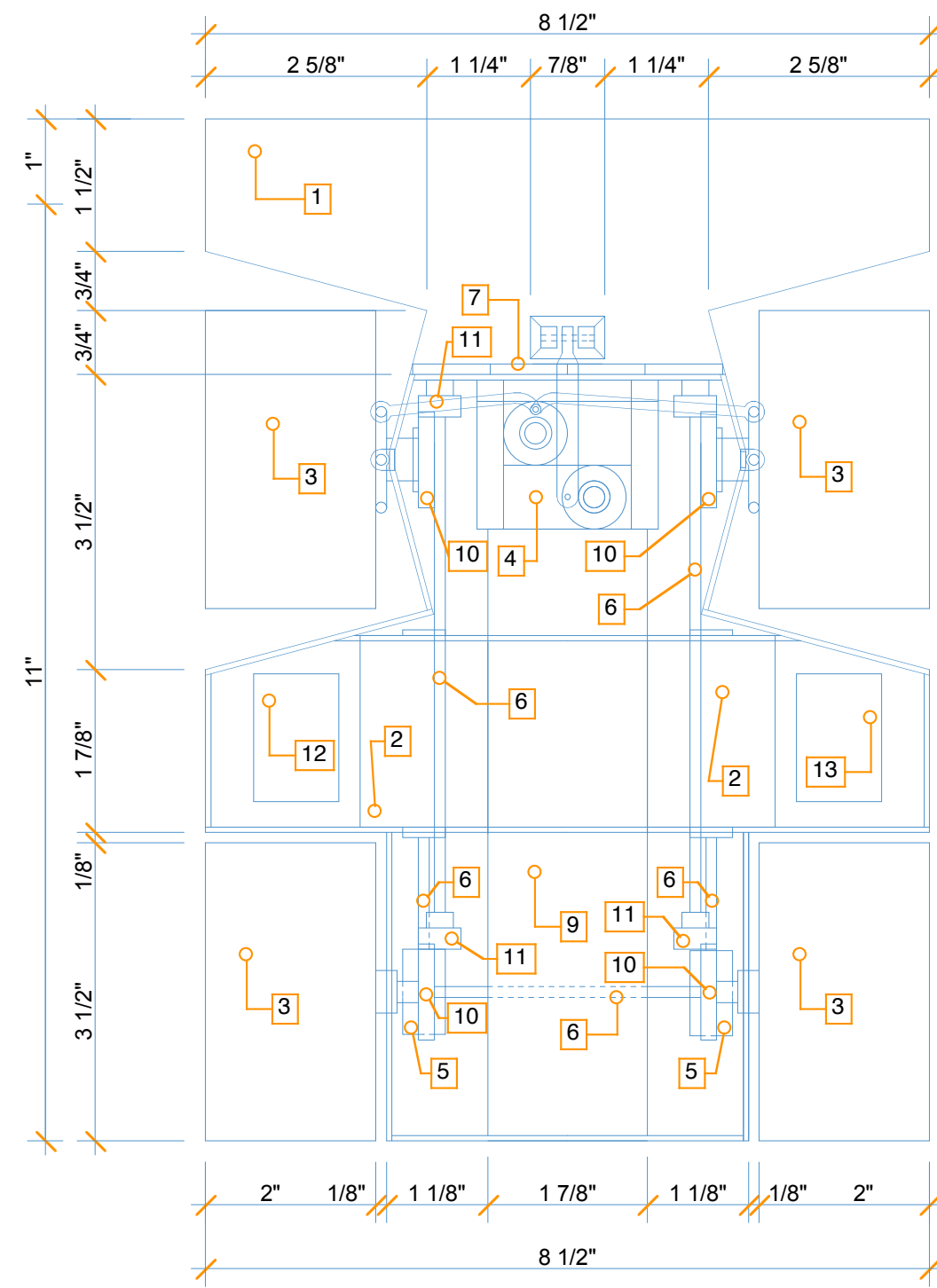


Sheet Metal Needed:

Required Length of control linkages may change due to vertical bending.



Top Cutaway View:



Description:

DTOM, which stands for Don't Tread On Me, is a Radio Controlled (RC) Vehicle which is intended to compete in competitions of sumo, agility, RoboSoccer, and more.

It is heavily armoured, has a "Variable Angle Attack" scoop on the front, does not have a "top" (it can drive upside-down), can drive off road (Awesome Tires and fair ground clearance), is equipped with revolutionary "hybrid" steering (tank and standard), and is operated via a remote four channel RC transmitter.

Legend:

- 1) Variable Angle of Attack Scoop
- 2) Motor: Johnson 12V, 1,600 RPM, reversible, DC
- 3) Wheel: knobby monster truck style!
- 4) Servo: standard size
- 5) Worm Gear
- 6) Axle: 1/8" diameter
- 7) Hinge: 1/8" diameter sleeve O/ 3/16" shaft cut in portions and welded to appropriate side
- 8) 1/16" Plate Steel (used in "shell" and firewalls)
- 9) Batteries: (2) 9.6V Makita Batteries on top of each other
- 10) Radial Gear
- 11) Bevel Gear
- 12) 4 Channel RC Receiver
- 13) Reversible Electronic Speed Controllers for Brushed DC Motors

Materials List:

QTY	WEIGHT PER LOT	PRICE PER LOT	DESCRIPTION
2	0.5	1	30 High Power Motors
2	1.25	2.5	40 9.6V Makita Batteries
1	N/A	N/A	250 4 Channel Transmitter
2		30	60 Reversible Electronic Speed Controller for Brushed DC Motor
1		10	10 4 Channel FM Receiver
2		3	6 Worm Gear
2		10	20 Servos to run scoop and steering
1		20	20 1/16" Steel plate to construct Shell Out Of
N/A		10	10 All Gears Necessary for 4WD System
1	0.1	0.1	10 3' of 1/8" Steel Shaft for Axels and Hinge